



IMPORTANT NOTICE!

SAFETY DEFINITIONS

Statements in this manual preceded by the following words are of special significance:

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE:

Refers to important information, and is placed in italic type.

It is recommended that you take special notice of these items.

HARLEY-DAVIDSON MOTORCYCLES ARE FOR ON-ROAD USE ONLY

This motorcycle is not equipped with a spark arrester and is designed to be used only on the road. Operation of off-road usage in some areas may be illegal. Obey local laws and regulations. This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when resold.

VISIT THE HARLEY-DAVIDSON WEB SITE
<http://www.harley-davidson.com>

YOUR OWNER'S MANUAL

WE CARE ABOUT YOU

Welcome to the Harley-Davidson® Motorcycling Family! When enjoying your Harley-Davidson motorcycle, be sure to ride safely, defensively and within the limits of the law. Ride with your headlamp on, always wear a helmet, proper eyewear and protective clothing, and insist your passenger does too. Never ride while under the influence of alcohol or drugs. Know your Harley® and read your Owners Manual cover to cover. Enhance your ownership experience further by individualizing your motorcycle through the installation of tried and tested Harley-Davidson® Genuine Motor Parts™ and Genuine Motor Accessories™. When adding performance products to your Harley, be a good neighbor and choose products that comply with local noise and emissions regulations. Protect your privilege to ride by joining the American Motorcyclist Association.

Your new Harley-Davidson motorcycle is designed and manufactured to be the finest in its field. Your Harley-Davidson motorcycle conforms to all applicable U.S. Federal Motor Vehicle Safety Standards and U.S. Environmental Protection Agency regulations effective on the date of manufacture.

This manual has been prepared to acquaint you with the operation, care and maintenance of your motorcycle, and to provide you with important safety information. Follow these instructions carefully for maximum motorcycle performance and for your personal motorcycling safety and pleasure.

Your Owners Manual contains instructions for operation and minor maintenance. Major repairs are covered in the Harley-Davidson Service Manual. Such major repairs require the attention of a skilled technician and the use of special tools and equipment. Your Harley-Davidson dealer has the facilities, experience and Genuine™ Harley-Davidson® parts necessary to properly render this valuable service. We recommend that any emission system maintenance be performed by an authorized Harley-Davidson dealer.

Harley-Davidson Motor Company

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CUSTOMER SERVICE ASSISTANCE

Most sales or service issues will be resolved right at the dealership. However if an issue arises that your dealer cannot resolve, please follow the procedure below.

1. Discuss your problem with the appropriate personnel at the dealership in the Sales, Service or Parts area. If that proves unsuccessful, speak to the owner of the dealership or the general manager.
2. If you cannot resolve the issue with the dealership, you can contact the Harley-Davidson Customer Service Department by calling (414) 343-4056 or write to:

Attention: Customer Service Department
Harley-Davidson Motor Company
P. O. Box 653
Milwaukee, WI 53201

To avoid delays, please have the following information available to give to the Customer Service Representative:

- Your name, address and phone number.
- Motorcycle VIN (Vehicle Identification Number) found on the vehicle registration, warranty card or stamped on the steering head and on a label located on the right front frame downtube of the motorcycle itself.
- Name and location of the dealership.
- Current Mileage.
- Clear description of issue.

PERSONAL INFORMATION

Name: _____

Address: _____

City: _____ St: _____ Zip: _____

Telephone No. (_____) _____ - _____

DEALER INFORMATION

Dealer Name: _____

Address: _____

City: _____ St: _____ Zip: _____

Telephone No. (_____) _____ - _____

Contacts => Sales: _____

Service: _____

Parts: _____

VEHICLE INFORMATION

Vehicle Identification No.

Ignition Key No.

SECURITY SYSTEM PERSONAL CODE

_____ - _____ - _____ - _____ - _____

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NOTES

2001 DYNA MODELS

The Dyna section contains the vehicle specifications for the following Harley-Davidson models:

FXDDyna Super Glide
FXDXDyna Super Glide Sport
FXDXTDyna Super Glide T-Sport
FXDLDyna Low Rider
FXDWGDyna Wide Glide

NOTES

SAFE OPERATING RULES

Before operating your new motorcycle ***it is your responsibility*** to read and follow operating and maintenance instructions in this manual, and follow these basic rules for your personal safety.

- Know and respect the rules of the road (see RULES OF THE ROAD section). Carefully read and observe the rules contained in the MOTORCYCLE SAFETY booklets accompanying this Owner's Manual. Read and familiarize yourself with the contents of the MOTORCYCLE HANDBOOK for your state.
- Before starting engine, check for proper operation of brake, clutch, shifter, throttle controls, correct fuel and oil supply.

WARNING

Harley-Davidson cautions you against the use of certain non-standard parts such as after-market and custom made extended front forks which may adversely affect performance and handling. Removing or altering factory installed standard parts may adversely affect performance and could result in death or serious injury.

- Use only Harley-Davidson approved parts and accessories. Use of certain other manufacturer's performance

parts will void your new motorcycle warranty. See your Harley-Davidson Dealer for details.

WARNING

Gasoline is extremely flammable and highly explosive. Always stop the engine when refueling or servicing the fuel system. Do not smoke or allow open flame or sparks near gasoline. Inadequate safety precautions could result in an explosion and death or serious injury.

- When refueling your motorcycle, the following rules should be observed:
 - a. Refuel in a well ventilated area with the engine turned off.
 - b. Remove fuel filler cap slowly.
 - c. Do **NOT** smoke or allow open flames or sparks when refueling or servicing the fuel system.
 - d. Always close the fuel supply valve when the engine is not running. This prevents flooding of the carburetor and the surrounding area with gasoline.
 - e. Do **NOT** fill fuel tank above the bottom of the filler neck insert.
 - f. Leave air space to allow for fuel expansion.

 WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Use care when handling gasoline. DO NOT store motorcycle having gasoline in tank within the home or garage where open flames, pilot lights, sparks or electric motors are present. Inadequate safety precautions could cause an explosion or fire which could result in death or serious injury.

 WARNING

Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

 WARNING

Motorcycle exhaust contains poisonous carbon monoxide gas. Do NOT inhale exhaust gases and never run the engine in a closed garage or confined area. Inhaling carbon monoxide gas could result in death or serious injury.

 WARNING

Your vehicle is equipped with a jiffy stand that locks when placed in the full forward (down) position and the vehicle weight is rested on it. Without vehicle weight resting on the jiffy stand, any movement of the vehicle could cause the jiffy stand to retract slightly from the full forward position. If the jiffy stand is not in the full forward (lock) position when vehicle weight is rested on it, the vehicle may fall over which could result in death or serious injury.

 WARNING

Be sure jiffy stand is fully retracted before riding the motorcycle. If jiffy stand is not fully retracted during vehicle operation, it could contact the road surface causing a momentary disturbance before retracting. This momentary disturbance could distract the rider, resulting in loss of vehicle control and death or serious injury.

- A **new** motorcycle must be operated according to the special break-in procedure. See BREAK-IN - THE FIRST 500 MILES (800 KM) section.
- Operate motorcycle only at moderate speed and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions.

NOTE:

If you are an inexperienced rider we recommend that you obtain information and formal training in the correct motorcycle riding technique. The Motorcycle Safety Foundation® offers beginning and advanced rider safety courses. Call 1-800-447-4700 for information.

 WARNING

Avoid excessive speed and never travel at a speed faster than the posted speed limit. Excessive speed may cause loss of control of vehicle, which could result in death or serious injury.

- Do **not** exceed the legal speed limit or drive too fast for existing conditions. **Always** reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.
- Do **not** exceed 80 mph (130 km/h) when carrying a passenger or cargo.
- Do **not** exceed 90 mph (145 km/h) riding solo.

- Pay strict attention to road surfaces and wind conditions. Any two wheeled vehicle may be subject to the following upsetting forces:
 - a. Wind blasts from passing trucks.
 - b. Holes in the pavement.
 - c. Rough road surfaces.
 - d. Rider control error, etc.,

These forces may influence the handling characteristics of your motorcycle. If this happens, reduce speed and guide the motorcycle with a relaxed grip to a controlled condition. Do **not** brake abruptly or force the handlebar. This may aggravate an unstable condition.

NOTE:

New riders should gain experience under various conditions while driving at moderate speeds.

- Operate your motorcycle defensively. Remember, a motorcycle does not afford the same protection as an automobile in an accident. **One of the most common accident situations occurs when the driver of the other vehicle fails to see or recognize a motorcycle and turns left into the on-coming motorcyclist.** Operate only with headlamp on.
- Wear an approved helmet, clothing, and foot gear suited for motorcycle riding. Bright or light colors are best for greater visibility in traffic, especially at night. Avoid loose, flowing garments and scarves.

 WARNING

Avoid any contact with the exhaust system and wear clothing that will completely cover the legs while riding. The exhaust pipes and mufflers get very hot when the engine is running and remain too hot to touch, even after the engine is turned off. Failure to wear proper or protective clothing could result in death or serious injury.

- When carrying passengers, ***it is your responsibility*** to instruct them on proper riding procedures. (See Riding Tips for Motorcyclist included in your Harley-Davidson Owner's Kit.)
- Do not allow other individuals, under any circumstances, to operate your motorcycle unless you know they are experienced, licensed riders and are thoroughly familiar with the operation of your particular motorcycle.
- Protect your motorcycle against theft. After parking your motorcycle, lock the steering head and remove ignition key from switch.
- Safe motorcycle operation requires alert mental judgment combined with a defensive driving attitude. Do **NOT** allow fatigue, alcohol or drugs to endanger your safety or that of others.
- Vehicles equipped with a sound system should have the volume adjusted to a nondistracting level before operating vehicle.
- Maintain your motorcycle in proper operating condition in accordance with the MAINTENANCE INTERVALS CHART in this Owner's Manual. Particularly important to motorcycle stability is proper tire inflation pressure, tread condition, and proper adjustment of wheel bearings and steering head bearings.

 WARNING

For your personal welfare, all the listed service and maintenance recommendations should be performed. Lack of regular maintenance at the suggested intervals may affect the safe operation of your motorcycle, which could result in death or serious injury.

 WARNING

Do NOT operate motorcycle with a loose, worn or damaged steering system, including the front and rear suspension system. Contact your dealer for repair of steering or suspension system wear or damage. Damaged steering or suspension components may adversely affect handling which could result in death or serious injury.

 WARNING

Regularly inspect shock absorbers and front forks and look for leaks. Replace worn parts. Worn parts can adversely affect stability and handling which could result in death or serious injury.

 WARNING

Use only Genuine Harley-Davidson replacement fasteners tightened to the proper torque (See your Harley-Davidson Service Manual). We caution you against the use of certain non-standard parts such as after-market and custom made fasteners which may not have specific strength, finish and type requirements to perform properly in the assembly and its environment. The use of any non-standard parts, including fasteners, could result in death or serious injury.

CAUTION

Twin Cam 88™ Harley-Davidson Motorcycles have a plugged carburetor overflow fitting. The fuel supply valve on the vehicle should be turned off when the vehicle is not operating. Failure to do so may result in fuel drainage into the engine, dilution of the engine oil and engine damage.

WARNING

Maintain proper tire pressure, including wheel and tire balance. Inspect your tires periodically and replace tires with approved tires only. (See your Harley-Davidson Dealer.) Failure to do so can lead to improper balance, abnormal tread wear, poor handling and could result in death or serious injury.

WARNING

Harley Davidson recommends replacement of any tire punctured or damaged. In some cases small punctures in the tread area may be repaired from within the demounted tire by your Harley-Davidson dealer. Speed should NOT exceed 50 mph (80 km/h) for the first 24 hours after repair and the repaired tire should NEVER be used over 80 mph (130 km/h).

In emergency situations, if a temporary repair is made, ride slowly with as light a load as possible until the tire is permanently repaired or replaced.

Failure to heed this warning could result in death or serious injury.

 WARNING

Do NOT exceed the Gross Vehicle Weight Rating of your motorcycle. The Gross Vehicle Weight Rating (GVWR) is shown on the information plate, located on the frame steering head. (GVWR is the sum of the weight of the motorcycle, accessories, and the maximum weight of the rider, passenger and cargo that may be safely carried.) Exceeding GVWR may lead to instability of the motorcycle, which could result in death or serious injury.

 WARNING

Do NOT tow a disabled motorcycle with another vehicle. The steering and handling of the disabled motorcycle will be impaired due to the force of the tow line. If a disabled motorcycle must be transported, use a truck or trailer. Towing a disabled motorcycle with another vehicle could cause loss of control of motorcycle and death or serious injury.

 WARNING

Do NOT pull a trailer behind a motorcycle. Towing a trailer may cause tire overload, unstable handling, and/or reduced braking efficiency, which could result in death or serious injury.

 CAUTION

Direct contact of D.O.T.5 brake fluid with eyes may cause eye irritation, swelling, and redness. Avoid eye contact. In case of eye contact flush with large amounts of water and get medical attention. Swallowing large amounts of D.O.T.5 brake fluid may cause digestive discomfort. If swallowed, obtain medical attention. Use in well ventilated area. KEEP OUT OF REACH OF CHILDREN.

 WARNING

Battery posts, terminals and related accessories contain lead and lead components, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

 WARNING**NOTES**

Consult your Harley-Davidson Dealer regarding any questions or problems that occur in the operation of your motorcycle. Failure to do so may aggravate an initial problem, cause costly repairs, jeopardize your personal safety and could result in death or serious injury.

- Be sure all equipment required by federal, state, and local law is installed and in good operating condition.

NOTES

RULES OF THE ROAD

- Keep to the right side of the road centerline when meeting other vehicles coming in the opposite direction. Ride to left of center of your lane to avoid oily pavement ahead.
- Always sound your horn, actuate your turn signals, and exercise **caution** when passing other vehicles going in the same direction. Never try to pass another vehicle going in the same direction at street intersections, on curves, or when going up and/or down a hill.
- At street intersections give the right-of-way to the vehicle on your right. Do **NOT** presume you have the right-of-way, as the other driver may not know it is your turn.
- Always signal when preparing to stop, turn or pass.
- All traffic signs, including those used for the control of traffic at intersections, should be obeyed promptly. SLOW DOWN signs near schools and CAUTION signs at railroad crossings should **always** be observed and your actions governed accordingly.
- When intending to turn to the left, signal at least 100 feet (30.5 meters) before reaching the turning point. Move over to the centerline of the street (unless local rules require otherwise), slow down, enter the intersection of the street and then turn carefully to the left.
- **Never** anticipate a traffic light. When a change is indicated from GO to STOP (or vice versa) in the traffic control systems at intersections, slow down and wait for the light to change. **Never** run through a yellow or red traffic light.
- While turning either right or left, watch for pedestrians, animals, as well as vehicles.
- Do **not** leave the curb or parking area without signaling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.
- Be sure your license plate is installed in the position specified by law and is clearly visible at all times. Keep the plate clean.
- Ride at a safe speed that is consistent with the type of highway you are on. Pay strict attention to whether the road is:
 - a. Dry
 - b. Oily
 - c. Icy
 - d. Wet
- Watch for debris such as leaves or loose gravel.
- Weather and traffic conditions on the highway dictate adjusting your speed and driving habits accordingly.

ACCESSORIES AND CARGO

Harley-Davidson Motor Company cannot test and make specific recommendations concerning every accessory or combination of accessories sold. Therefore, ***the rider must be responsible for safe operation of the motorcycle*** when installing accessories or carrying additional weight.

WARNING

Do NOT load weight or install accessories improperly on the motorcycle. Doing so may affect the motorcycle's stability, handling characteristics, and safe operating speed which could result in death or serious injury.

WARNING

Do NOT exceed the Gross Vehicle Weight Rating of your motorcycle. The Gross Vehicle Weight Rating (GVWR) is shown on the information plate, located on the frame steering head. (GVWR is the sum of the weight of the motorcycle, accessories, and the maximum weight of the rider, passenger and cargo that may be safely carried.) Exceeding GVWR may lead to instability of the motorcycle which could result in death or serious injury.

WARNING

Do NOT pull a trailer behind a motorcycle. Towing a trailer may cause tire overload, unstable handling, and/or reduced braking efficiency, which could result in death or serious injury.

Accessory and Cargo Guidelines

The following guidelines should be used when equipping a motorcycle, carrying passengers and/or cargo.

WARNING

Avoid excessive speed and never travel at a speed faster than the posted speed limit. Excessive speed may cause loss of control of vehicle, which could result in death or serious injury.

- Do **not** exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.
- **Never** exceed 80 mph (130 km/h) when carrying a passenger or cargo.
- Do **not** exceed 90 mph (145 km/h) riding solo.
- Keep cargo weight concentrated close to the motorcycle and as low as possible; this minimizes the change in the motorcycle's center of gravity.
 - a. **Distribute weight evenly** on both sides of the vehicle.
 - b. Do **not** load bulky items too far behind the rider or add weight to the handlebars or front forks.

c. Do **not** exceed 15 pounds (6.8 kg) maximum load in each saddlebag.

- Luggage racks are designed for lightweight items - Do **not** overload racks.
- Be sure cargo is secure and **will not** shift while riding.
 - a. Recheck the cargo periodically.

Accessories that change the operator's riding position may increase reaction time and affect handling of the motorcycle.

- Additional electrical equipment may overload the motorcycle's electrical system possibly resulting in electrical system and/or component failure.

WARNING

The front and/or rear guard(s) may provide limited leg and cosmetic vehicle protection under unique circumstances. (Fall over while stopped, very slow speed slide). It is not made or intended to provide protection from bodily injury in a collision with another vehicle or any other object.

- Large surfaces such as fairings, windshields, back rests, and luggage racks can adversely affect handling. Only genuine Harley-Davidson items designed specifically for the motorcycle model should be used with proper installation.

 WARNING

Harley-Davidson motorcycles have been carefully designed and engineered to be ridden in their original configuration. Do NOT alter the handling characteristics of these motorcycles by:

- Changing or adding weight, such as fairings or radios.
- Attempting “custom” alterations such as extended front forks.

Altering a motorcycle's standard configurations could result in death or serious injury.

 WARNING

Harley-Davidson cautions you against the use of certain non-standard parts such as after-market and custom made extended front forks which may adversely affect performance and handling. Removing or altering factory installed standard parts may adversely affect performance and could result in death or serious injury.

 WARNING

ONLY FLT Model Harley-Davidson Motorcycles are suitable for sidecar use. Consult your Harley-Davidson Dealer. Use of vehicles other than FLT models for this purpose could result in death or serious injury.

 WARNING

Do NOT ignore model/design specifications. Doing so constitutes vehicle misuse and may adversely affect handling of the motorcycle which could result in death or serious injury.

VEHICLE IDENTIFICATION NUMBER (V.I.N.)

See Figure 1. The full 17 digit serial, or Vehicle Identification Number (V.I.N.) is stamped on the steering head and on a label located on the right front frame down tube. An abbreviated V.I.N. is stamped on the left side crankcase at the base of the rear cylinder.

NOTE:

Always give the full 17 digit Vehicle Identification Number when ordering parts or making any inquiry about your motorcycle.

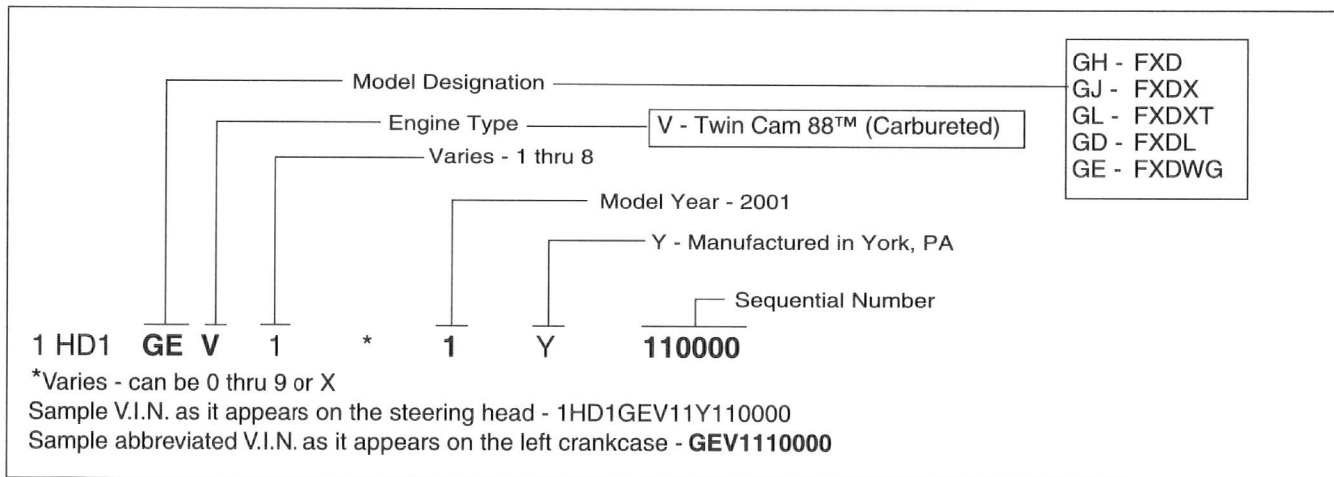
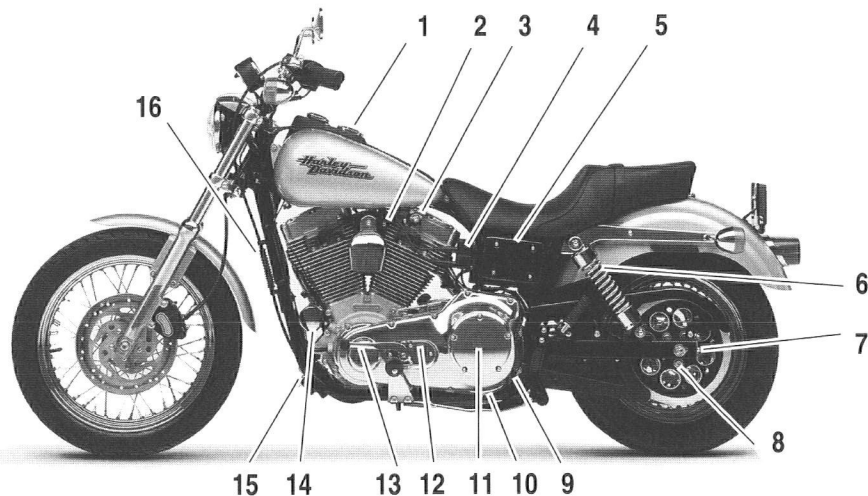
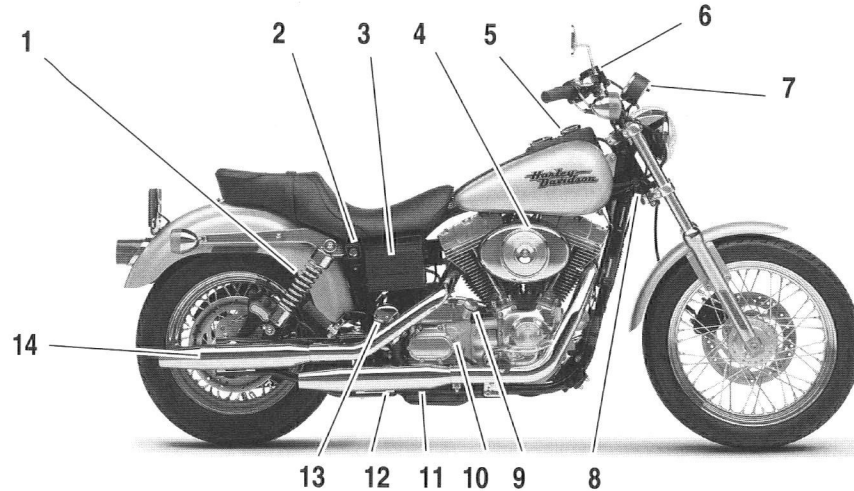


Figure 1. Vehicle Identification Number



- | | | |
|---|---|------------------------------------|
| 1. Fuel Gauge | 6. Shock Absorber | 12. Primary Chain Inspection Cover |
| 2. Carburetor Enrichener Knob | 7. Rear Axle Adjuster | 13. Primary Chain Cover |
| 3. Fuel Supply Valve | 8. Rear Sprocket and Drive | 14. Engine Oil Filter |
| 4. Ignition Coil | 9. Engine Oil Tank Drain (under Transmission) | 15. Voltage Regulator |
| 5. Electrical Enclosure (contains Ignition Module, Circuit Breaker Fuses and Starter Relay) | 10. Primary Drain Plug | 16. Clutch Cable Adjuster |
| | 11. Clutch Inspection Cover | |

Figure 2. Dyna Super Glide (FXD) - Left Side View



- 1. Shock Absorber
- 2. Ignition /Light Key Switch
- 3. Battery
- 4. Carburetor/Air Cleaner
- 5. Fuel Filler Cap

- 6. Front Brake Master Cylinder & Reservoir
- 7. Speedometer/Tachometer
- 8. Fork Lock
- 9. Engine Oil Fill Plug & Dipstick
- 10. Transmission Fill Plug

- 11. Transmission Drain Plug (under Transmission)
- 12. Rear Brake Master Cylinder & Reservoir
- 13. Electric Starter Motor
- 14. Rear Axle Adjuster

Figure 3. Dyna Super Glide (FXD) - Right Side View

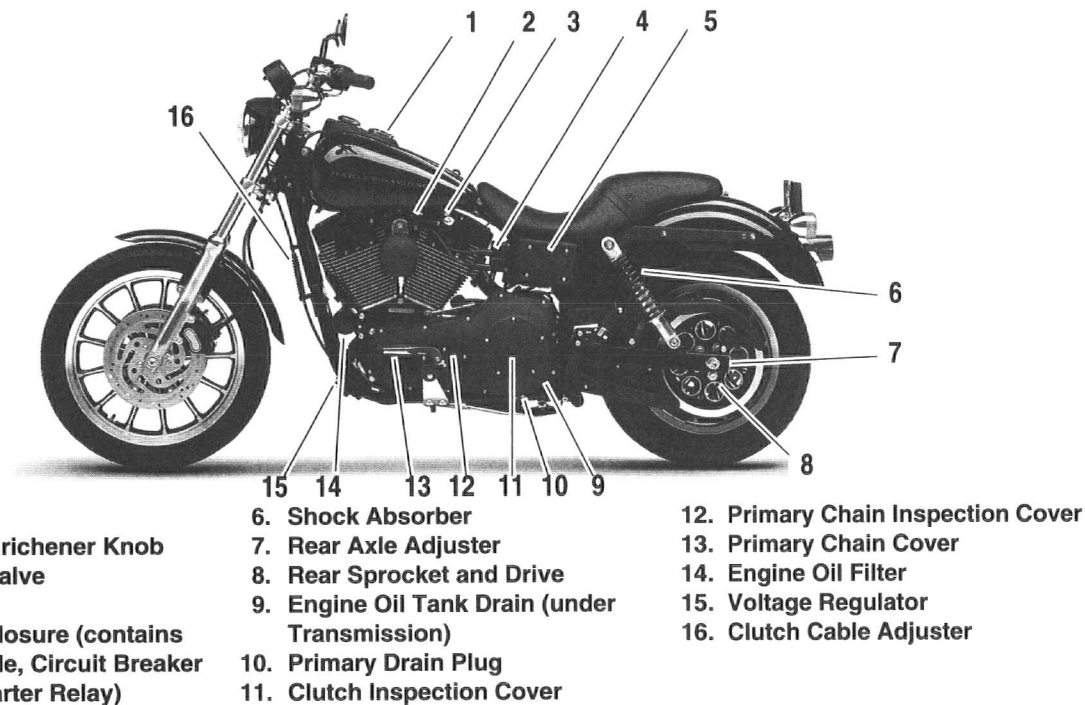
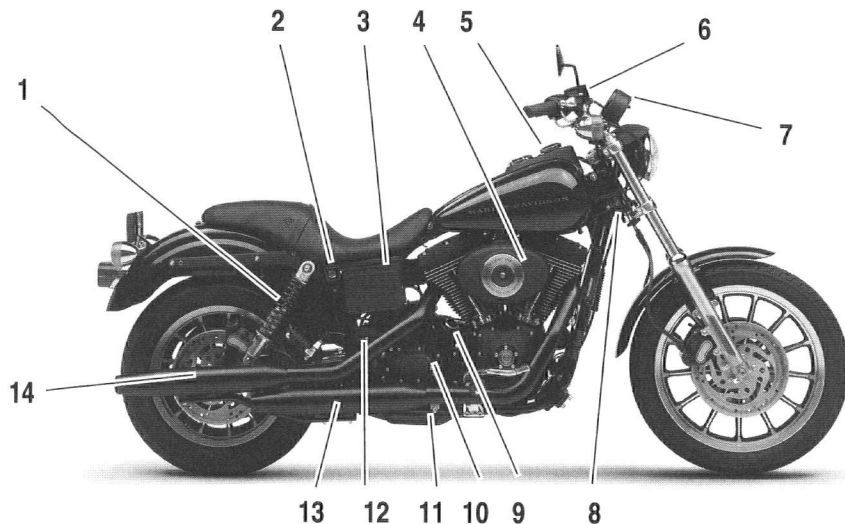


Figure 4. Dyna Super Glide Sport (FXDX) - Left Side View



- 1. Shock Absorber
- 2. Ignition /Light Key witch
- 3. Battery
- 4. Carburetor/Air Cleaner
- 5. Fuel Filler Cap

- 6. Front Brake Master Cylinder & Reservoir
- 7. Speedometer/Tachometer
- 8. Fork Lock
- 9. Engine Oil Fill Plug & Dipstick
- 10. Transmission Fill Plug

- 11. Transmission Drain Plug (under Transmission)
- 12. Electric Starter Motor
- 13. Rear Brake Master Cylinder & Reservoir
- 14. Rear Axle Adjuster

Figure 5. Dyna Super Glide Sport (FXDX) - Right Side View

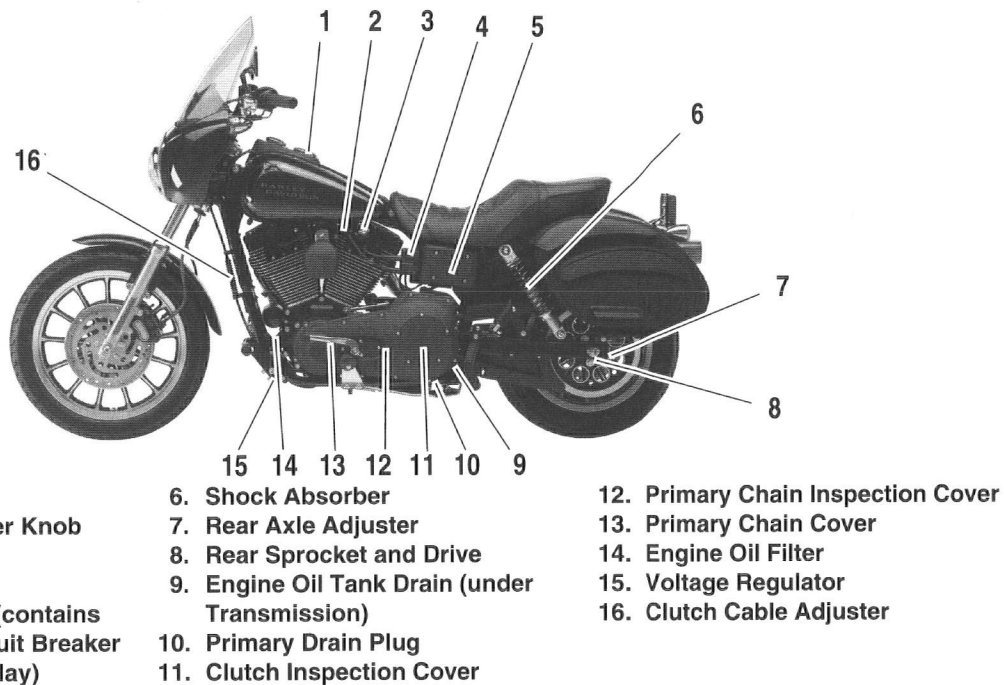
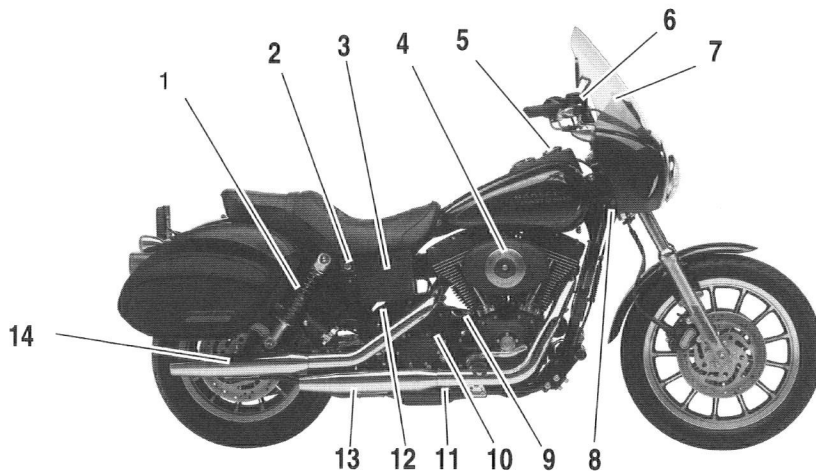


Figure 6. Dyna Super Glide T-Sport (FXDXT) - Left Side View

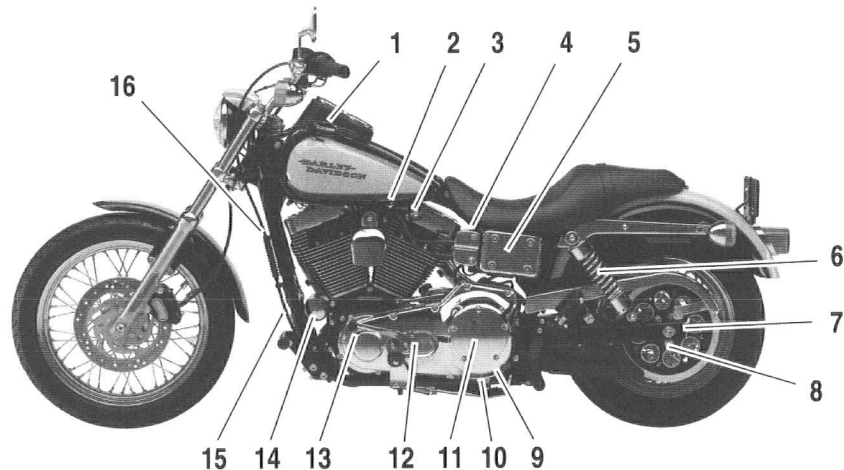


- 1. Shock Absorber
- 2. Ignition /Light Key Switch
- 3. Battery
- 4. Carburetor/Air Cleaner
- 5. Fuel Filler Cap

- 6. Front Brake Master Cylinder & Reservoir
- 7. Speedometer/Tachometer
- 8. Fork Lock
- 9. Engine Oil Fill Plug & Dipstick
- 10. Transmission Fill Plug

- 11. Transmission Drain Plug (under Transmission)
- 12. Electric Starter Motor
- 13. Rear Brake Master Cylinder & Reservoir
- 14. Rear Axle Adjuster

Figure 7. Dyna Super Glide T-Sport (FXDXT) - Right Side View



- | | | |
|---|---|------------------------------------|
| 1. Fuel Gauge | 6. Shock Absorber | 12. Primary Chain Inspection Cover |
| 2. Carburetor Enrichener Knob | 7. Rear Axle Adjuster | 13. Primary Chain Cover |
| 3. Fuel Supply Valve | 8. Rear Sprocket and Drive | 14. Engine Oil Filter |
| 4. Ignition Coil | 9. Engine Oil Tank Drain (under Transmission) | 15. Voltage Regulator |
| 5. Electrical Enclosure (contains Ignition Module, Circuit Breaker Fuses and Starter Relay) | 10. Primary Drain Plug | 16. Clutch Cable Adjuster |
| | 11. Clutch Inspection Cover | |

Figure 8. Dyna Low Rider (FXDL) - Left Side View

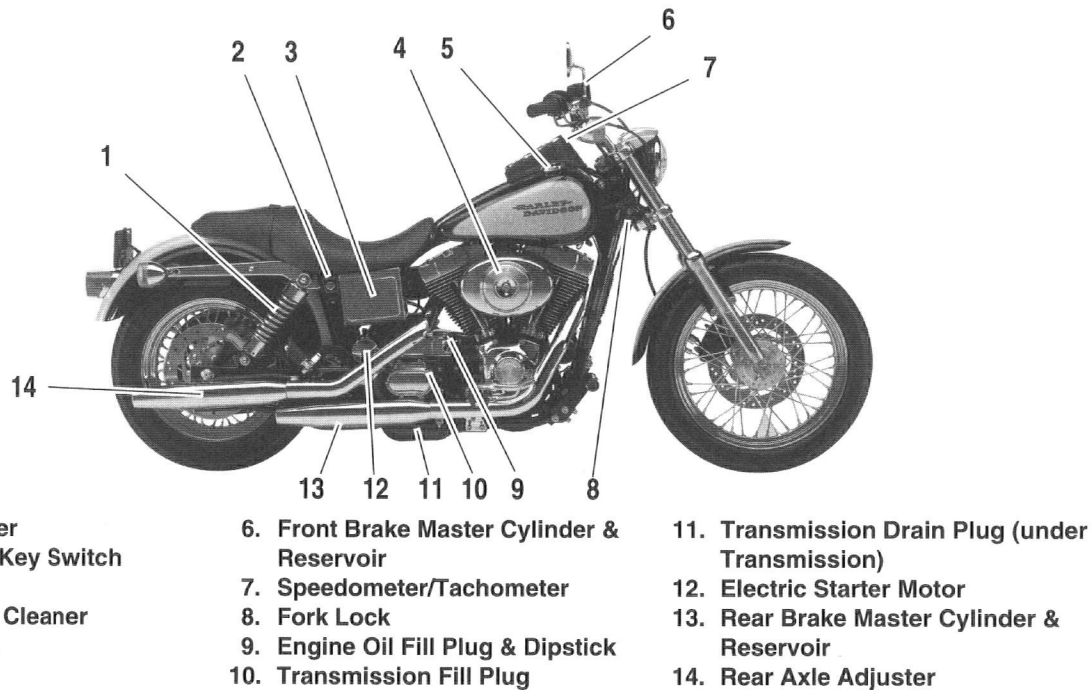


Figure 9. Dyna Low Rider (FXDL) - Right Side View

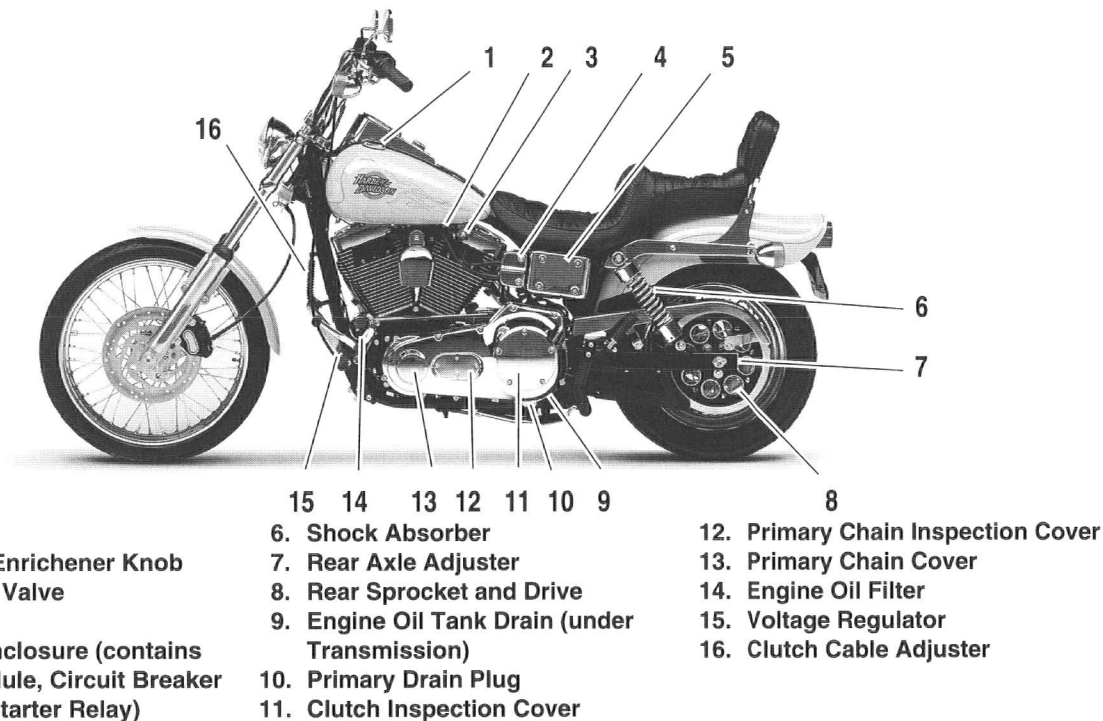


Figure 10. Dyna Wide Glide (FXDWG) - Left Side View

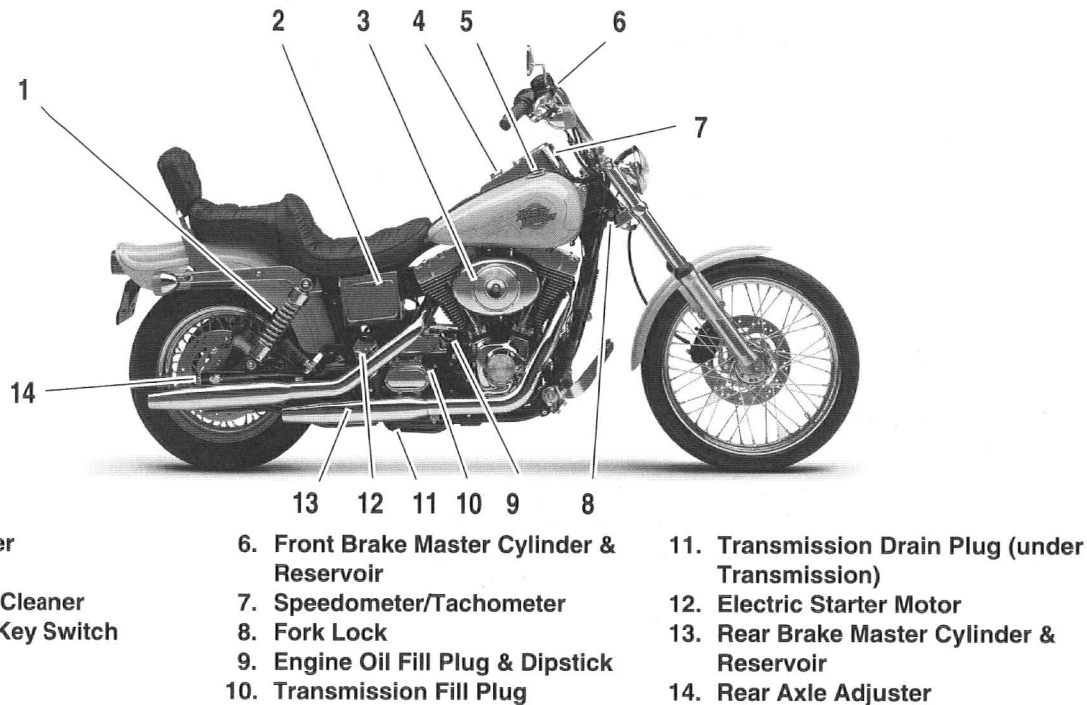


Figure 11. Dyna Wide Glide (FXDWG) - Right Side View

NOTES

DIMENSIONS

Table 1. Model Dimensions

ITEM	FXD		FXDX/T		FXDL		FXDWG	
	in.	mm	in.	mm	in.	mm	in.	mm
Wheel Base	62.5	1587.5	63.9	1623.1	65.5	1663.7	66.1	1678.9
Overall Length	91.0	2311.4	92.9	2359.7	94.0	2387.6	94.5	2400.3
Overall Width	28.5	723.9	33.0	838.2	28.5	723.9	33.5	850.9
Road Clearance	5.4	137.2	5.9	149.7	4.6	116.8	5.4	137.2
Overall Height	47.5	1206.5	51.25	1301.8	47.5	1206.5	47.5	1206.5
Saddle Height	26.5	673.1	27.25	692.2	26.5	673.1	26.75	679.5

WEIGHT

NOTE:

Gross Vehicle Weight Rating (GVWR) (maximum allowable loaded vehicle weight) and corresponding Gross Axle Weight Ratings (GAWR) are given on a label located on the frame steering head.

Table 2. Model Weights

ITEM	FXD		FXDX		FXDXT		FXDL		FXDWG	
	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg
Dry Weight (as shipped from factory)	612	277.6	619	281.1	642	291.2	614	278.5	612	277.6
GVWR	1085	492.1	1085	492.1	1085	492.1	1085	492.1	1085	492.1
GAWR Front	390	176.9	390	176.9	390	176.9	390	176.9	390	176.9
GAWR Rear	695	315.2	695	315.2	695	315.2	695	315.2	695	315.2

CAPACITIES

Table 3. Model Capacities

ITEM	FXD/LWG		FXDX/T	
	U.S.	liters	U.S.	liters
Fuel Tank (total)	4.9/4.9/5.2 gal	18.5/18.5/19.7	4.9 gal	18.5
Fuel Tank (reserve)	0.9/0.9/1.1 gal	3.4/3.4/4.2	0.9 gal	3.4
Oil Tank w/filter	3.0 qt.	2.84	3.0 qt.	2.84
Transmission (Approximate)	24 oz.	.71	24 oz.	.71
Primary Chain Case (Approximate)	26 oz.	.77	26 oz.	.77

IGNITION SYSTEM

Timing Setting Not Adjustable

Battery (Sealed, Maintenance Free).....12 Volt 19 amp/hr.

SPARK PLUGS

Type..... HD-6R12

Size..... 12 mm

Gap.....0.038-0.043 in (0.97-1.09 mm)

Torque..... 11-18 ft-lbs (14.9-24.4 Nm)

ENGINE

Number of Cylinders..... 2

Type..... 4-Cycle, 45 Degree V-Type, air cooled

Compression Ratio..... 9.0 to 1

Bore in. (mm)..... 3.75 in (95.3 mm)

Stroke in. (mm)..... 4.00 in (101.6 mm)

Displacement cu.in./cc. 88/1450

Torque.....86.0 ft-lbs @ 3500 RPM

TRANSMISSION

Type Constant Mesh, Foot Shift

Speeds.....5 Forward

NUMBER OF SPROCKET TEETH (PRIMARY CHAIN)

Engine.....25

Clutch.....36

NUMBER OF SPROCKET TEETH

Transmission32

Rear Wheel70

GEAR RATIOS

Table 4. Overall Gear Ratios

ALL MODELS	
Gear	Ratio
1st Gear	10.110
2nd Gear	6.958
3rd Gear	4.953
4th Gear	3.862
5th Gear	3.150

TIRE DATA



Tires, rims and air valves must be correctly matched to wheel rims. See your Harley-Davidson Dealer. Mismatching tires, tubes, rims and air valves may result in damage to the tire bead during mounting, allow tire slippage on the rim and cause tire failure, which could result in death or serious injury.



Using tires other than those specified may adversely affect motorcycle stability, which could result in death or serious injury.

- Tubeless tires fitted with the correct size inner tubes may be used on all Harley-Davidson laced (wire spoked) wheels. Protective rubber rim strips must be used with tubeless tires (fitted with correct size inner tubes) when mounted on laced (wire spoked) wheels.

 WARNING

Inner tubes must not be used in radial tires and radial tires must not be used on laced (wire spoked) wheels. Doing so could result in tire failure, which could result in death or serious injury.

- Tubeless tires are used on all Harley-Davidson cast and disc wheels.
- Tire sizes are molded on the tire sidewall. Inner tube sizes are printed on the tube.

 WARNING

Dunlop Harley-Davidson front and rear tires for Harley-Davidson motorcycles are not the same, and are not interchangeable. Use the front tire **ONLY** for a front tire. Do not put a rear tire on the front of a vehicle. Interchanging front and rear tires could result in death or serious injury.

 WARNING

Do not inflate tire beyond its maximum inflation pressure as specified on tire sidewall. Over inflated tires could blow out while vehicle is in operation which could cause loss of control of the motorcycle and death or serious injury.

Table 5. Tire Pressure Specifications

2001 VEHICLES DUNLOP HARLEY-DAVIDSON TIRES ONLY	TIRE PRESSURE (Cold)			
	Front		Rear	
	PSI	kPa	PSI	kPa
Solo Rider	30	206	36	248
Rider & One Passenger	30	206	40	275

FUEL INFORMATION

- Use a good quality unleaded gasoline.
- Use at least 91 (95 RON) pump octane (R + M)/2.
- Octane rating is usually found on the pump.

WARNING

Remove fuel filler cap slowly and fill fuel tank slowly to prevent spillage. Do not overfill or fill above the bottom of the filler neck insert. In addition, leave air space to allow for fuel expansion. Expansion can cause an over-filled tank to overflow gasoline through the filler cap onto surrounding areas. After refueling, be sure fuel filler cap is securely tightened. Failure to do so may cause an explosion or fire which could result in death or serious injury.

CAUTION

Do not spill gasohol onto the motorcycle when filling with fuel. Immediately wipe up gasohol spills on your Harley-Davidson. Gasohol may cause damage to painted surfaces.

Today's service station pumps are increasingly of the higher capacity variety. With the high flow of gasoline into a motorcycle tank, air entrapment and pressurization is a possibility. The pressurized air may force gasoline to escape through whatever opening is available within the filler tube. This may not only soil clothing, but may create a potential fire hazard.

WARNING

Use care when filling up the gas tank with fuel. Pressurized air may force gasoline to escape through whatever opening is available within the filler tube, and cause a leak which could result in a potential fire hazard and death or serious injury.

GASOLINE BLENDS

Your motorcycle was designed to get the best performance and efficiency using unleaded gasoline. Most gasoline sold in the United States is blended with alcohol and/or ether, to create “oxygenated” blends. The type and amount of alcohol or ether added to the fuel *is important*.

CAUTION

Do not use gasoline that contains methanol. Doing so may result in fuel system component failure, engine damage and/or equipment malfunction.

- Gasoline containing METHYL TERTIARY BUTYL ETHER (MTBE): Gasoline/MTBE blends are a mixture of gasoline and as much as 15% MTBE. Gasoline/ MTBE blends can be used in your motorcycle.
- ETHANOL is a mixture of 10% ethanol (Grain alcohol) and 90% unleaded gasoline. Gasoline/ethanol blends can be used in your motorcycle if the ethanol content does **not exceed** 10%.

- REFORMULATED OR OXYGENATED GASOLINES (RFG): “Reformulated gasoline” is a term used to describe gasoline blends that are specifically designed to burn cleaner than other types of gasoline, leaving fewer “tailpipe” emissions. They are also formulated to evaporate less when you are filling your tank. Reformulated gasolines use additives to “oxygenate” the gas. Your motorcycle will run normally using this type of gas and Harley-Davidson recommends you use it when possible, as an aid to cleaner air in our environment.

You may find that some gasoline blends adversely affect the starting, drivability or fuel efficiency of your motorcycle. If you experience one or more of these problems, it recommended you operate your motorcycle on straight unleaded gasoline.

CATALYTIC CONVERTERS

NOTES

California carbureted and all HDI motorcycles are equipped with catalytic converters.

CAUTION

Do not operate catalytic converter-equipped vehicle with engine misfire or a non-firing cylinder. If you operate the vehicle under these conditions, the exhaust will become abnormally hot, which can cause vehicle damage, including emission control loss.

CAUTION

You must use only unleaded fuel in California model catalytic converter-equipped motorcycles. Using leaded fuel will damage the emission control system.

BULB CHART (TABLE)

Table 6. Bulb Chart

LAMP DESCRIPTION (ALL LAMPS 12 VOLT)	NUMBER OF BULBS (REQUIRED)	CURRENT DRAW (AMPERAGE)	HARLEY-DAVIDSON PART NUMBER
Head lamp			
High Beam/Low Beam	1	5.0/4.58	67697-81
Position Lamp (HDI)	1	0.32	53438-92
Tail and Stop Lamp			
Tail Lamp	1	0.59	68168-89
Stop Lamp	1	2.10	68168-89
Tail Lamp (HDI)	1	0.42	68169-90
Stop Lamp (HDI)	1	1.75	68169-90
Turn Signal Lamp			
Front/Running	2	2.25/0.59	68168-89
Front (HDI)	2	1.75	68163-84
Rear	2	2.25	68572-64B
Rear (HDI)	2	1.75	68163-84

Table 6. Bulb Chart

LAMP DESCRIPTION (ALL LAMPS 12 VOLT)	NUMBER OF BULBS (REQUIRED)	CURRENT DRAW (AMPERAGE)		HARLEY-DAVIDSON PART NUMBER	
		FXD	FXDL	FXD/X	FXDL
Instrument Panel Lamps					
High Beam Indicator*	1	0.15	0.08	68024-94	68023-92A
Oil Pressure Indicator*	1	0.15	0.08	68024-92	68020-92A
Neutral Indicator*	1	0.15	0.08	68024-94	68024-92A
Turn Signal Indicator*	2	0.08	0.08	68024-92	68021-92A
Gauge Lamps					
Speedometer*					
Odometer*					
Tachometer*					
Fuel Gauge					
FXDL	1	0.19	0.19	67136-85	67136-85
FXD/X	1	0.30		53439-79	
FXDWG	1	0.17		67136-85	

* Illuminated with LED assembly on FXDWG

NOTES

NOTES:

This Owner's Manual covers model year 2001 Harley-Davidson motorcycles. Some features explained are unique to certain models. These features may be available as accessories for your Harley-Davidson motorcycle. See your Harley-Davidson Dealer for a complete list of accessories that will fit your model.

Refer to the broadside side-view photographs in the front of the manual to locate the items discussed in this manual.

IGNITION/LIGHT KEY SWITCH

WARNING

Do NOT modify the ignition/light switch wiring to circumvent the automatic-on headlight feature. High visibility is an important safety consideration for motorcycle riders. Ensure the headlight is on at all times. Failure to do so could result in death or serious injury.

See YOUR OWNER'S MANUAL section. Be sure to record all your key numbers in the space provided at the front of this book.

See Figure 12. The ignition/light key switch controls electrical functions of the motorcycle.

CAUTION

Protect your motorcycle against theft. After parking your motorcycle, lock the steering head and remove ignition key from switch. Failure to lock your motorcycle may result in theft and/or equipment damage.

CAUTION

Do NOT lubricate barrel locks with petroleum based lubricants or graphite. Inoperative locks may result.

CAUTION

Turn the ignition switch to the OFF position and remove the key before locking the bike. Leaving the key in the ACC position will keep the instrument lights on and result in a discharged battery.

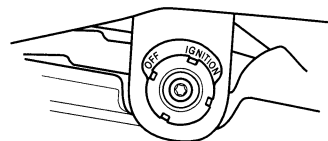
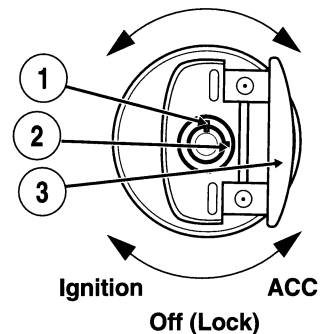
1. To remove the key from the ignition, push the key in and turn it counterclockwise.
2. Remove the key.

NOTES:

- ACC - Accessories and hazard warning flasher can be turned on. Instrument lights are on. Brake light and horn can be activated. Key may not be removed.
- The lights work when the switch is in the IGNITION position, as required by law in some localities.

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Dyna Wide Glide

1. Lock Position
2. Unlock Position
3. Open Switch Cover

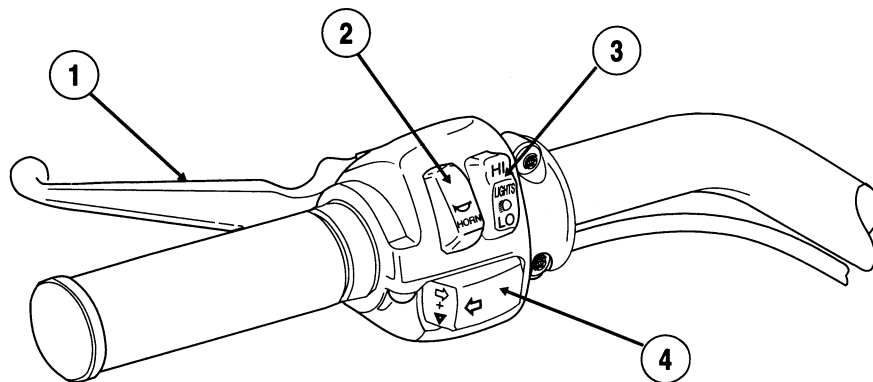
Dyna Low Rider
Dyna Super Glide
Dyna Super Glide Sport
Dyna Super Glide T-Sport

Figure 12. Ignition/Light Key Switch

Table 7. Ignition/Light Switch

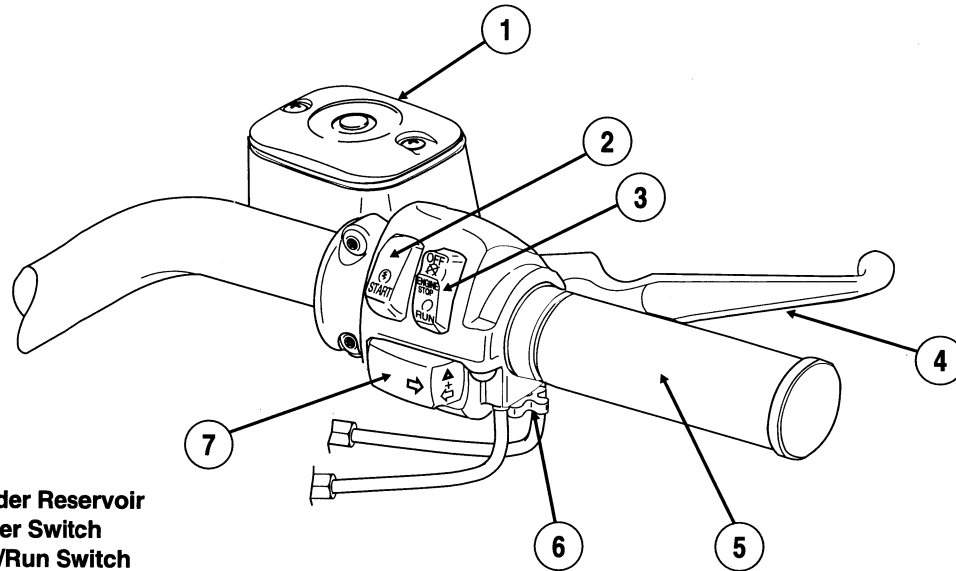
MODEL	LOCATION	SWITCH POSITIONS/FUNCTIONS
FXD, FXDL, FXDX, FXDXT	On right side of vehicle between the upper end of the shock absorber and the battery.	To unlock the switch and the front fork, push the key in and turn it counterclockwise (CCW) (clockwise on HDI). Press the lever/key (HDI) down and turn it to the OFF position. Be sure you push key in to move key to either position. Press the lever/key (HDI) down to move it to any position.
		To lock the fork, move fork to the full left position. Push down on lever and turn it to the left, to the FORK LOCK position. Remove the key.
		ACC - Accessories and hazard 'warning flasher can be turned on. Instrument lights are on. Brake light and horn can be activated. Key may be removed (except HDI).* The ignition, lights and accessories work when the switch is in the IGNITION position, as required by law in some localities.*
		NOTE: <i>Harley-Davidson recommends removing key from ignition/fork lock before operating motorcycle. If you do not remove key, can fall out during operation (except HDI).</i>
FXDWG	On tank console.	Switch is locked or unlocked by lifting switch cover, inserting key and turning key counter-clockwise (CCW) to lock, clockwise (CW) to unlock. Key may be removed in any position.
		OFF - Ignition, lights and accessories are off.
		ACC. - Accessories are on. Hazard warning flashers can be operated. Instrument lights are on. Brake light and horn can be activated.*
		LIGHTS and IGNITION - Ignition, lights and accessories are on.*

* International models (HDI) have an additional function; position lamp and tail lamp are also on.



1. Clutch Hand Lever
2. Horn Switch
3. Headlamp Dimmer Switch
4. Left Turn Signal switch

Figure 13. Left Handlebar Controls



1. Master Cylinder Reservoir
2. Electric Starter Switch
3. Electric Stop/Run Switch
4. Brake Hand lever
5. Throttle Control Grip
6. Throttle Friction Adjusting Screw
7. Right Turn Signal Switch

Figure 14. Right Handlebar Controls

ELECTRIC STARTER SWITCH

NOTE:

Stop/Run switch MUST be in RUN position to operate engine.

See Figure 14. The *Electric Starter Switch* is located on the right handlebar control group. See STARTING THE ENGINE for detailed operation procedures.

1. Put the *Engine Stop/Run Switch* in the RUN position and the transmission in neutral. Neutral Indicator light should be illuminated.
2. See Figure 12. Turn *Ignition/Light Key Switch* to ON and push the START switch to operate starter motor.

ENGINE STOP SWITCH

See Figure 14. The *Engine Stop/Run Switch* is located on the right handlebar control group.

- The *Engine Stop/Run Switch* turns the ignition ON or OFF, and should be used at all times to stop the engine, especially in an emergency.
1. To stop engine, push the *Engine Stop/Run Switch* to position marked OFF.
 2. See Figure 12. Turn the ignition key to the OFF position.

HORN SWITCH

See Figure 13. The horn is operated by pushing on the *Horn Switch* located on the left handlebar control group.

HEADLAMP DIMMER SWITCH

See Figure 13. The *Headlamp Dimmer Switch* is located on the left handlebar control group and controls the headlamp's high and low beams.

NOTE:

The beam (blue) indicator light remains lit when high beam is on.

TURN SIGNAL SWITCHES - GENERAL

See Figure 14. The *Right Turn Signal Switch* operates the right front and right rear flashing lamps.

See Figure 13. The *Left Turn Signal Switch* operates the left front and left rear flashing lamps.

NOTE:

Front turn signal lamps also function as running lamps.

TURN SIGNAL SWITCH OPERATION

The *Turn Signal Switches* are controlled by a small microprocessor which gets its operational information from the speedometer and turn signal module.

1. Momentarily depress the desired turn signal switch.

The *Turn Signal Lamps* will begin and continue flashing until a movement signal is received from the speedometer. As long as the motorcycle is stationary, the signal will flash.

NOTES:

- If you want the turn signals on longer, hold the switch in. The turn signals will begin flashing immediately, but the microprocessor will not begin computing distance until you release the switch.
- If you are signaling to turn in one direction and you depress the switch for the opposite turn signal, the first signal is canceled and the opposite side begins flashing.
- If you want to stop the lamps from flashing, briefly depress the turn signal switch a second time. The turn signal lamps will stop flashing.

HAZARD WARNING 4-WAY FLASHER (TURN SIGNAL SWITCHES)

Use the following method to activate the four-way flashers.

1. With the ignition key ON and Security System disarmed (models with security only), press the left and right turn signal switches at the same time.
2. See Figure 13. and Figure 14. Turn the ignition key OFF and arm the security system if present and desired. The four-way flashers will continue for two hours.
3. To cancel four-way flashing, disarm the Security System if necessary, turn the ignition key ON and press the left and right turn signal switches at the same time.

This system allows a stranded vehicle to be left in the four-way flashing mode and secured until help is found.

INDICATOR LIGHTS - GENERAL

See Figure 15. Five indicator lights are provided.

- The **green** TURN indicators will flash when turn signals are activated; therefore, flashing indicates the chosen turn direction. When the 4-way hazard flashers are operating, both turn indicators will flash simultaneously.
- The **blue** BEAM indicator light, when lit, signals high beam headlamp operation.
- The **green** NEUTRAL light, when lit, signals the transmission is in neutral gear.
- The **red** OIL indicator light, when lit, signals that oil is not circulating through the engine.

NOTE:

The OIL indicator light will glow when the ignition is turned on prior to starting engine. With engine running, light should be off when engine speed is above idle.

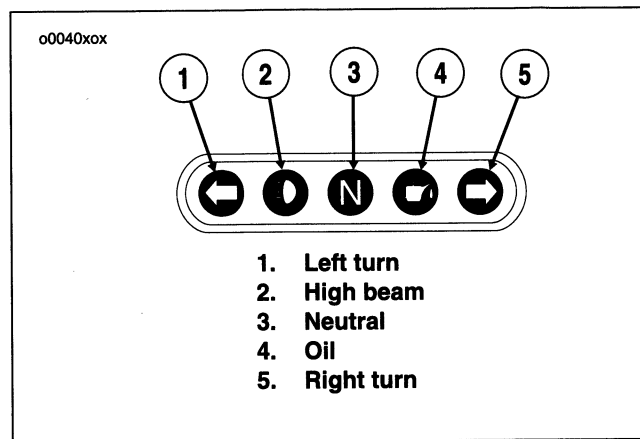


Figure 15. Indicator Lights

Several other circumstances that could cause the **red** Oil indicator light to signal, include the following:

NOTES:

- If the oil pressure indicator light does not go off at speeds above idling, it is usually because of an empty oil tank or diluted oil.
- In freezing weather the oil feed may clog with ice and sludge, preventing oil circulation.
- A grounded oil signal switch wire.
- A faulty signal switch.
- A damaged or improperly installed check valve.
- Trouble with the pump.

CAUTION

If the oil pressure indicator light fails to go off, always check the oil supply first. If oil supply is normal and the light still does not operate normally, stop the engine at once and do not ride further until the trouble is located and the necessary repairs are made. Failure to do so may result in engine damage.

TACHOMETER

See Figure 16. The *Tachometer* registers the engine speed in revolutions per minute (RPM).

CAUTION

See **OPERATING RECOMMENDATIONS** section. Do **NOT** operate the engine above maximum safe RPM as shown under **OPERATION** (red zone on tachometer). Lower the RPM by upshifting to a higher gear or reducing the amount of throttle. Failure to lower RPM may cause equipment damage.

SPEEDOMETER/ODOMETER

See Figure 16. The *Speedometer* registers miles per hour of forward speed. The odometer registers the number of miles the vehicle has traveled.

WARNING

Avoid excessive speed and never travel at a speed faster than the posted speed limit. Excessive speed could cause loss of control resulting in death or serious injury.

CAUTION

Never attempt to tamper with or alter the vehicle odometer. This is illegal. Tampering with or altering a vehicle odometer may cause equipment damage.

ELECTRONIC SPEEDOMETER

See Figure 16. The *Electronic Speedometer* has a single display window for both the odometer and trip-odometer.

1. Press the function switch (rubber covered), to change the display window on the speedometer face to either odometer or trip-odometer.
2. To reset the trip-odometer to zero, press button to reset speedometer display to the ODOMETER mode and hold the button in for approximately 2 to 3 seconds.

NOTE:

On FXDXT, the windshield must be adjusted to the most forward position to access the Function Switch.

The speedometer will switch to the trip-odometer mode and reset the display to zero.

TRIP-ODOMETER

See Figure 16. Use the Trip-odometer to register number of miles traveled on a trip or between refueling.

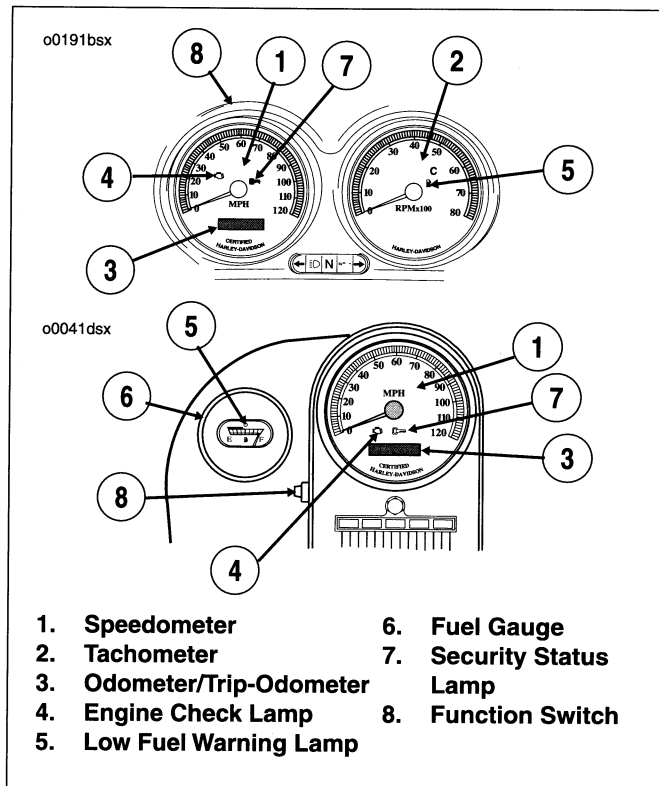


Figure 16. Model Indicator/Lamps

THROTTLE CONTROL GRIP

See Figure 14. The *Throttle Control Grip* is located on the right handlebar control group.

1. Turn control grip clockwise (CW) to close the throttle.
2. Turn control grip counterclockwise (CCW) to open the throttle.

To reduce rider fatigue on long trips, a spring loaded throttle friction adjustment screw is located at the bottom of the throttle grip clamp.

WARNING

Do NOT tighten throttle friction adjustment screw to the point where the engine will not return to idle automatically. This could lead to loss of control of motorcycle, resulting in death or serious injury.

3. See Figure 14. Unscrew the Throttle Friction Adjustment screw so the throttle returns to the idle position when the hand is removed from the grip.
4. Screw the throttle adjustment screw in, to increase friction on grip to provide a damping effect on throttle motion.

NOTE:

The throttle friction adjustment screw should not be used under normal stop and go operating conditions.

ENRICHENER

Constant Velocity (C.V.) Carburetor Enrichener

A Constant Velocity Carburetor uses an “Enrichener” instead of a “choke”. An Enrichener is operated almost the same way as a choke except there are two differences:

- When starting a cold engine, the throttle control **MUST BE CLOSED** for the Enrichener to work properly.
- The Enrichener does not have detents. The enrichener knob position can be adjusted from full in to full out.

See Figure 17. Engine speed increases as the Enrichener knob is pulled out. By moving the Enrichener knob, you adjust the air/fuel mixture to start a cold or warm engine.

1. Pull Enrichener knob all the way out for cold engine starting.
2. Change the Enrichener knob position between **FULL OUT**, or **FULL IN**, as the situation requires.

NOTES:

See OPERATION section for detailed starting procedures.

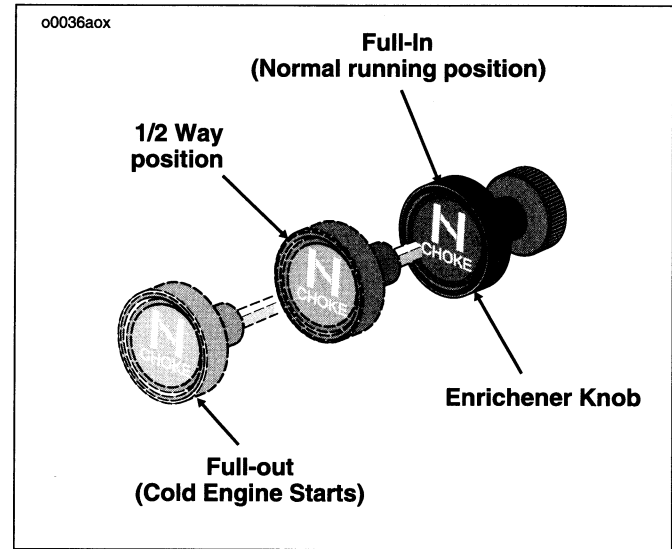


Figure 17. Setting the Enrichener

CLUTCH HAND LEVER

WARNING

Be sure fingers are not positioned between hand control levers and handlebar grips or operation of these controls could be impaired. Improper hand positioning may cause loss of control of the motorcycle, which could result in death or serious injury.

See Figure 13. The *Clutch Hand Lever* is located on the left handlebar where it is operated with the fingers of the left hand.

1. Pull Clutch Hand Lever in against handlebar grip to fully disengage clutch.
2. Release the foot shifter lever slowly (while applying minimal pressure) to its outward position to engage clutch.

GEAR SHIFTER

See Figure 18. The *Gear Shifter* is located on the left side, where it is operated with the toe of the left foot.

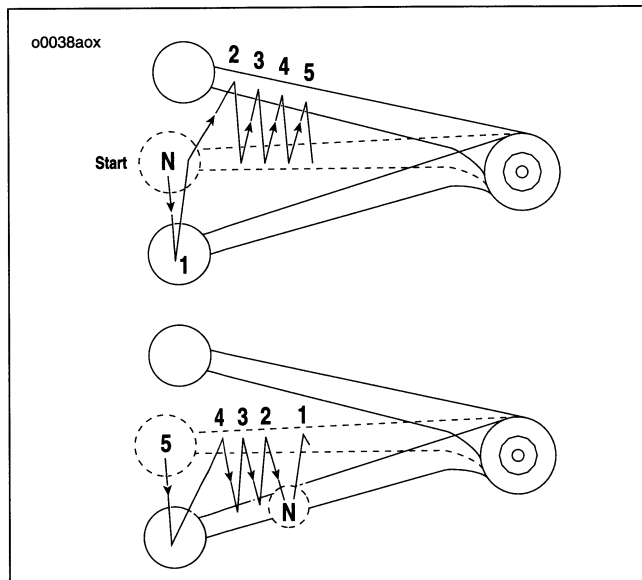


Figure 18. Foot Shifter Lever

- See Figure 19. Pushing *Foot Shift Lever* all the way down (full stroke) shifts the transmission to the next lower gear.
 - Lifting the *Foot Shift Lever* all the way up (full stroke) shifts the transmission into the next higher gear.
1. Release the *Foot Shift Lever* after each gear change. This allows the lever to return to its central position before another gear change can be made.
- The neutral position is between first (low), and second gear.
 - First gear is the last gear position that can be found by pushing the foot shift lever full strokes downward.

NOTE:

By lifting the gear shifter lever up, a higher gear is engaged; by pushing the gear shifter lever down, a lower gear is engaged. When stopping, operate gear shift until you reach neutral. Neutral is 1/2 stroke up from first gear.

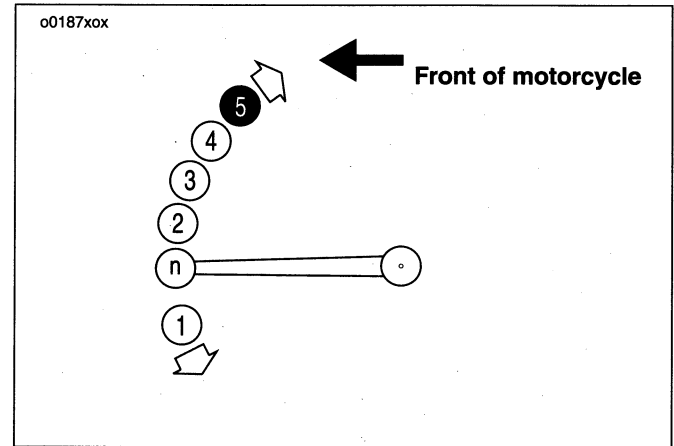


Figure 19. Foot Shift Lever

Occasionally, it is necessary to roll the motorcycle to fully engage the gears.

To roll the motorcycle backward or forward:

1. Stand the motorcycle still and shut the engine off.
2. Disengage the clutch while maintaining a slight pressure on the foot shift lever to shift from one gear to another.

Even with the engine running and the motorcycle standing still, difficulty may be experienced in shifting gears. This difficulty arises when transmission gears are not turning and shifting parts; as a result, they are not lined up to permit engagement.

CAUTION

When difficulty of shifting gears is experienced, do not under any circumstances, attempt to force the shift. The results of such abuse will be a damaged or broken shifter mechanism.

If you cannot shift gears do the following:

1. Either roll the motorcycle as indicated above.

OR

2. If the engine is running, **lightly** engage the clutch while applying minimal pressure to the shifter lever to make the shift.

See OPERATION section. Both of these procedures set transmission gears in motion to enable ease of shifting.

BRAKES

The brake pedal controls the rear wheel brake and is located on the motorcycle's right side. It is operated by the right foot.

See Figure 14. The Brake Hand Lever controls the front wheel brake and is located on the right handlebar. It is operated by the fingers of the right hand.

NOTE:

Brakes should be applied uniformly and evenly to prevent wheels from locking up. A balance between rear and front braking is generally best.

WARNING

Do not apply either brake strongly enough to lock the wheel. This may cause the wheel to skid with possible loss of control of the motorcycle, which could result in death or serious injury.

MIRRORS (CONVEX)

Your vehicle is equipped with convex mirrors and have a curved surface. This type of mirror is designed to give a much wider view to the rear than a flat mirror; however, cars and other objects seen in this type of mirror will look smaller and farther away than when seen in a flat mirror. Use care when judging the size or distance of objects seen in these mirrors.

WARNING

Objects in mirrors are closer than they appear. Always use caution when judging distance of objects in mirrors. Failure to judge correct distances using mirrors could result in death or serious injury.

Adjust the mirrors to clearly reflect the area behind the motorcycle.

NOTE:

Adjust mirrors so you can see a small portion of your shoulders in each mirror. This will help you establish the relative distance of vehicles to the rear of your motorcycle.

FUEL SUPPLY VALVE

The *Fuel Supply Valve* is located under the fuel tank. The fuel supply is cut off to the engine when the valve handle is horizontal, and when the engine is turned OFF.

- See Figure 20. Turn the handle (Item no. 2) to the horizontal position to turn OFF main fuel supply.
- Turn the handle (Item no. 4) to the vertical position to turn ON main fuel supply.
- Turn the handle (Item no. 1) to the vertical position to turn ON reserve fuel supply.

Valve is vacuum-operated and will open and close when engine is turned ON or OFF.

NOTE:

The fuel supply valve on the vehicle should be turned OFF when the vehicle is not operating.

CAUTION

California vehicles, equipped with Evaporative Emission controls, have a plugged carburetor overflow fitting. The fuel supply valve on the vehicle should be turned off when the vehicle is not operating. Failure to do so may result in fuel drainage into the engine, dilution of the engine oil and engine damage.

NOTE:

- To always maintain a reserve supply, do not operate the motorcycle with the valve in the reserve (RES) position after refueling.

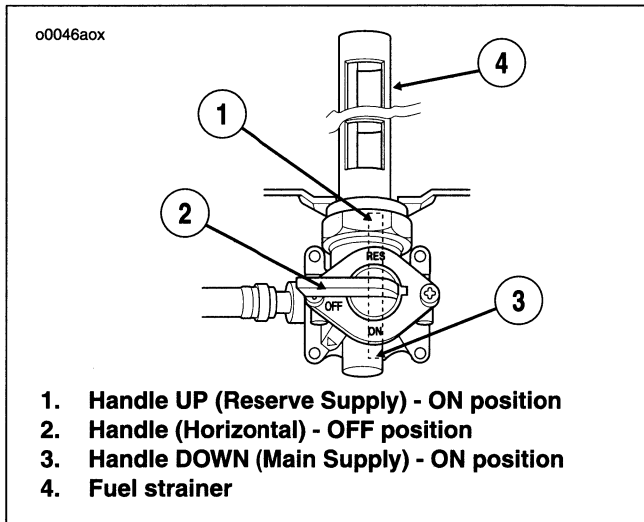


Figure 20. Fuel Supply Valve

FUEL FILLER CAP

See Figure 21. and Figure 22. To open, turn *Fuel Filler Cap* counterclockwise (CCW) and lift up. To close, turn *Fuel Filler Cap* clockwise (CW) until it clicks. The ratchet action of the cap prevents overtightening.

NOTES:

- Fuel filler cap turns approximately a 3/4 turn before it starts unscrewing.
- See Figure 21. FXDL and FXDWG model fuel filler caps are located on the right side of the fuel tank. The “cap” on the left side is the fuel gauge and is NOT removable.

See SAFE OPERATING RULES and review safety procedures listed below.

CAUTION

Do NOT spill gasohol onto the motorcycle when filling with fuel. Immediately wipe up gasohol spills on your Harley-Davidson. Spilling gasohol onto the motorcycle may result in paint or equipment damage.

CAUTION

You must use **ONLY** unleaded fuel in California model catalytic converter-equipped motorcycles. Using leaded fuel will damage the emission control system.

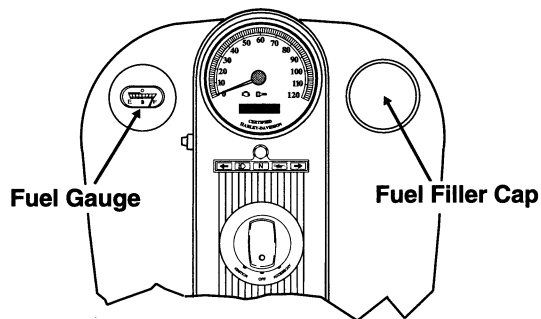
WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Use care when handling gasoline. Do NOT store motorcycle having gasoline in tank within the home or garage where open flames, pilot lights, sparks or electric motors are present. Inadequate safety precautions could cause an explosion or fire which could result in death or serious injury.

WARNING

Remove fuel filler cap slowly and fill fuel tank slowly to prevent spillage. Do not overfill or fill above the bottom of the filler neck insert. In addition, leave air space to allow for fuel expansion. Expansion can cause an over-filled tank to overflow gasoline through the filler cap onto surrounding areas. After refueling, be sure fuel filler cap is securely tightened. Failure to do so may cause an explosion or fire which could result in death or serious injury.

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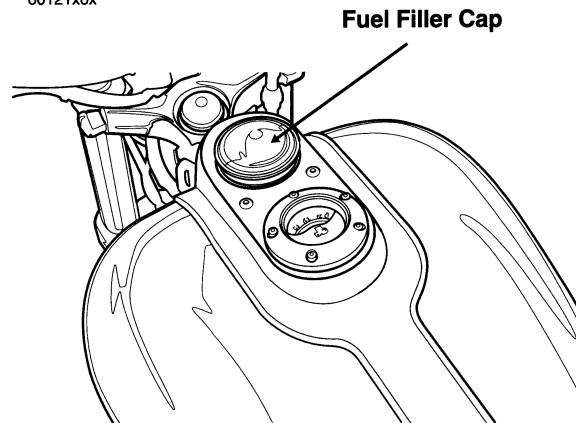
Dyna Wide Glide Models

Figure 21. Fuel Filler Cap

! WARNING

Do NOT use decorative “spinner” or “bullet” type fuel cap covers, which may possibly cause the cap to loosen from the tank upon impact. Consult with your Harley-Davidson Dealer about the correct fuel cap to use. Failure to do so may cause an explosion or fire which could result in death or serious injury.

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**Dyna Super Glide,
Dyna Super Glide Sport,
Dyna Super Glide Sport Touring**

Figure 22. Fuel Filler Cap

FORK LOCK

WARNING

Do not operate vehicle with forks locked. Doing so will restrict the vehicle's turning ability and could result in death or serious injury.

See Figure 23. The Dyna Glide models have the *Fork Lock* incorporated in the steering head on the right hand side.

CAUTION

Protect your motorcycle against theft. After parking your motorcycle, lock the steering head and remove ignition key from switch. Failure to lock your motorcycle may result in theft and/or equipment damage.

Using the Fork Lock immediately after parking your motorcycle, will discourage unauthorized use or theft when parking your motorcycle.

1. Turn fork to full left position.
2. Insert ignition key into fork lock switch.
3. Push down on fork lock switch and turn to left position.
4. Remove ignition key.

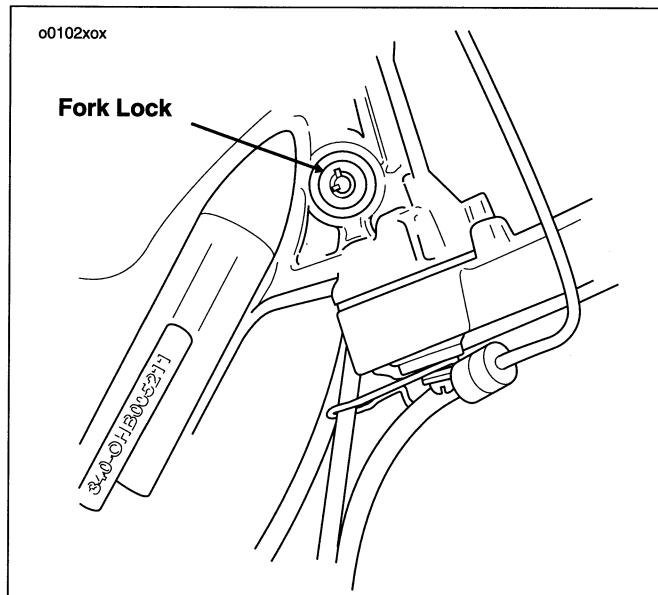


Figure 23. Fork Lock (Dyna Glide)

SUSPENSION ADJUSTMENT (FXDX/FXDXT)

WARNING

Both shock absorbers must be adjusted to the same preload position. Shocks that are not adjusted to the same preload position could adversely affect handling. Failure to adjust shock absorbers before riding could result in loss of control of the motorcycle and death or serious injury.

General

See Figure 24. The Dyna Glide FXDX/FXDXT models feature rear shock absorbers that can be adjusted for rebound damping and five pre-loaded positions.

The FXDX/FXDXT motorcycles have a front suspension with cartridge valve 39 mm forks that adjust for compression, rebound damping and spring preload.

The rear suspension features shock absorbers that adjust for rebound damping, as well as spring preload.

The front and rear suspension preload setting will need to be adjusted for your weight and should be made **before** the motorcycle is ridden any distance. Your Harley-Davidson dealer can assist you in setting this when you take delivery of the motorcycle.

- If the preload adjustment is correct, and you have the rebound and compression damping set at the factory recommended points, the motorcycle should ride properly.
- If these preload adjustment settings are unsatisfactory, they can be changed.

NOTE:

Evaluating and changing the rebound and compression damping is a very subjective process with many variables and should be approached carefully.

Damping is set at the factory for the average rider under normal riding conditions. Preload adjustment settings can be adjusted to compensate for individual riding styles, weight variations, or when carrying a passenger.

Definitions:

Damping: Resistance to movement. Damping affects how easily the suspension can move and limits oscillations of the system once movement has begun.

Compression: Suspension is compressed when the wheel moves up.

Rebound: The suspension is rebounding when it is moving back from being compressed.

Preload: The spring is compressed somewhat during assembly. This initial compression provides a “loaded” condition in the spring. This initial compression is referred to as preload.

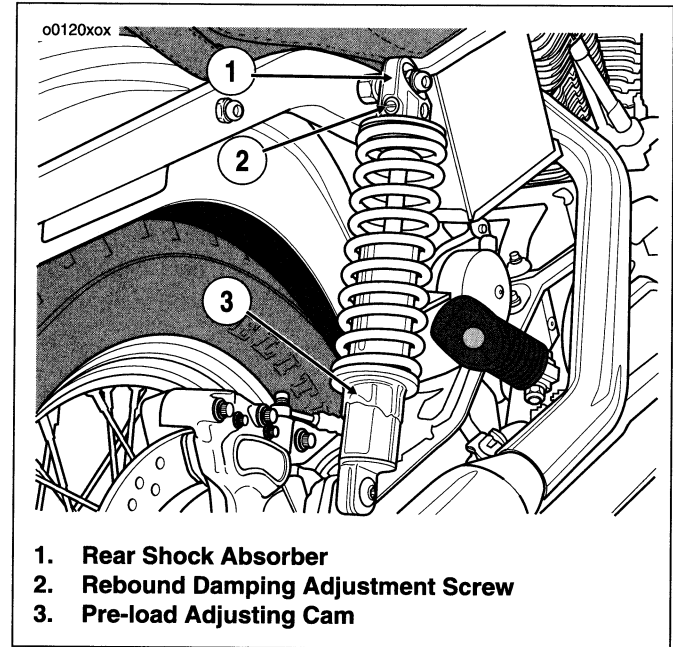


Figure 24. Rear Shock Absorber (Dyna)

Spring Preload

Front and rear suspension spring preload must be adjusted before any other adjustments can be attempted. This adjustment assures that the suspension has the proper amount of travel.

Spring preload is the most important suspension adjustment offered on your FXDX/FXDXT motorcycle. Correct setting of preload will result in a motorcycle that suits the rider's size and weight.

NOTE:

Two people are needed to carry out spring preload adjustments.

1. Take the motorcycle off the jiffy stand and bounce the back end up and down a few times to be sure the suspension is free and unbinding.
2. With the motorcycle unloaded, take the following measurements.
3. See Figure 25. At the rear shock, measure the distance A, from the upper shock bolt center to the lower shock bolt center.
4. At the front fork, measure the distance B, from the front axle center to the bottom of the lower triple clamp.

5. With the help of an assistant take the same measurements with the rider in full gear on the motorcycle.

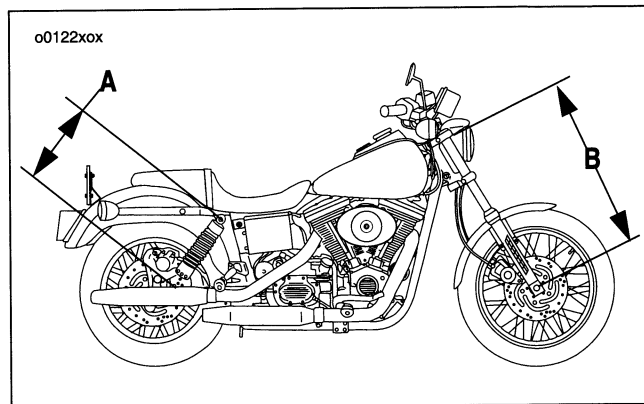


Figure 25. Preload Measurement

NOTE:

The assistant should help balance the motorcycle so the rider can keep both feet on the footpegs.

6. Bounce a few times on the seat to be sure the suspension is free and not binding.
7. Subtract the second measurement from the first. The difference, which is the squat, must be in the range of 0.5 in. to 1.0 in; If it is not, adjustment is necessary.

⚠ WARNING

Regularly inspect shock absorbers, front forks and look for leaks on the motorcycle. Worn or leaking parts can affect stability. If you have questions as to how these parts should function, see your Harley-Davidson Dealer. Failure to do so could result in death or serious injury.

See Figure 26. To adjust the rear shock spring preload, turn spring adjusting cam to the desired position with a spanner wrench. When returning to off-cam position, cams should be backed off in opposite direction. A spanner wrench (Part No. **HD-94700-52C**) for this purpose is available from your Harley- Davidson dealer.

See Figure 27. To adjust the front fork spring preload, turn mechanical pre-load adjusting nut with a 7/8 in. wrench clockwise (CW) to increase preload. Turning nut counterclockwise (CCW) decreases preload.

- Observe lines on cylindrical portion of adjusting nuts to keep adjustments equal on both forks.

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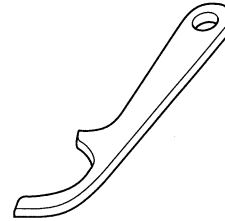


Figure 26. Spanner Tool

NOTE:

Changes in load will require changes in the preload setting. Carrying less weight than was used for setting up the suspension will require a reduction in the preload. Increasing the load will require an increase in the preload.

The GVWR of the motorcycle is given in the Owner's Manual specifications and under no circumstance is it to be exceeded.

⚠ WARNING

Both shock absorber adjusting cams and front fork spring adjusting nuts must be adjusted to the same preload position. Not having the preload adjusted equally from side to side could adversely affect handling. This could lead to loss of control of the motorcycle which could result in death or serious injury.

FRONT COMPRESSION AND REBOUND (FXDX/FXDXT)

WARNING

The front forks allow multiple compression and rebound adjustments. Settings on both fork legs for compression and rebound damping must be identical or handling can be adversely affected. This could lead to loss of control of the motorcycle and could result in death or serious injury.

- See Figure 27. Make all suspension adjustments in one or two click increments.
- Adjusting more than one or two clicks at a time may cause you to skip the best adjustment.
- Test ride after each adjustment.
- When an adjustment makes no difference, return to the previous adjustment and try a different approach.
- The fork compression damping adjuster has 14 click positions.
- Equal adjustments are made to the adjuster knobs at the base of each fork leg.
- Rotating the adjuster in the “H” direction (clockwise) gives a harder setting.

- Rotating in the “S” direction (counterclockwise) yields softer damping.

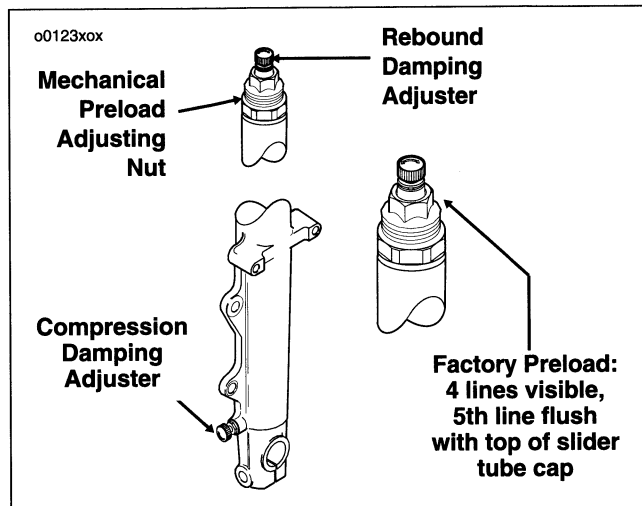


Figure 27. Front Suspension Adjustments

NOTES

- Located on top of each fork leg, the fork rebound adjuster knobs have 14 click positions.
- Turning the adjuster knobs clockwise (CW) until they lock yields maximum rebound damping. Forks set in this position will have the slowest rebound.
- Adjusters turned fully counterclockwise (CCW) will have the least amount of rebound damping. This adjustment will produce the fastest rebound.
- Make adjustments by counting the clicks while turning the adjuster knob(s).

REAR SUSPENSION ADJUSTMENTS

Make all suspension adjustments in one or two click increments.

Adjusting more than one or two clicks at a time may cause you to skip the best adjustment.

Test ride after each adjustment. When an adjustment makes no difference, return to the previous adjustment and try a different approach.

See Figure 24. Adjust rebound damping by using the dial below the upper shock eye.

- Rotate toward “H” (Clockwise) to increase rebound damping.
- Rotate toward “S” (Counter clockwise) to decrease rebound damping.

There are 15 click positions for the rebound damping adjuster.

- If the preload adjustment is correct and you have the rebound damping set at the factory recommended points the motorcycle should handle and ride properly.

If these settings are unsatisfactory, they can be changed.

NOTE:

Rotate adjusters to full clockwise (CW) (position 1) or maximum hard position first, then back-off to desired setting.

ADJUSTMENT GUIDELINES

To achieve the proper settings you will need the preload adjusted properly, the tires inflated properly, and a familiar bumpy road. It is useful if the road contains a variety of different kinds of bumps.

Begin the process by putting all the damping adjustments at the factory recommended settings and riding the bike over a variety of surfaces and bumps at different speeds. If the suspension is set properly the motorcycle will be stable and comfortable.

If you are not satisfied with the factory settings the following table should help you achieve settings that suit your riding style. Remember, any setting chosen is a compromise.

Table 8. Suspension Settings

Factory Recommended Suspension Settings (from Maximum Hard)	
Fork Rebound	Position 8
Fork Compression	Position 3
Fork Preload	See Figure 27.
Rear Shock Compression	N/A
Rear Shock Rebound	Position 3
Rear Shock Preload	Third cam step

SUSPENSION ADJUSTMENT

Table 9. Suspension Adjustment

CONDITION	ADJUSTMENT SOLUTION
• Bike wallows through turns. • Feels loose or vague after bumps. • Wheel tends to “pogo” after passing over a bump. This is noticeable by watching the bike continue to bounce as it travels over multiple bumps.	Increase rebound damping.
• Wheel responds to bump, but doesn’t return to ground quickly after bumps. This is more pronounced over a series of bumps and is often referred to as “packing down.”	Reduce rebound damping.
• The bike bottoms out or dips while cornering. • Bike has excessive brake dive.	Increase compression damping. Increase preload.
• Harsh ride particularly over washboard surfaces. • Bumps kick through handlebars or seat. • Suspension seems not to respond to bumps. This is evidenced by tire chattering (a movement with short stroke and high frequency) through corners or by jolting the rider over rough roads.	Reduce compression damping. Reduce preload.

JIFFY STAND

See Figure 28. The Jiffy Stand is located on the left side of the motorcycle and swings outward to support the motorcycle for parking.

WARNING

Always park the motorcycle on a level, firm surface. An unbalanced motorcycle could fall over resulting in result in death or serious injury.

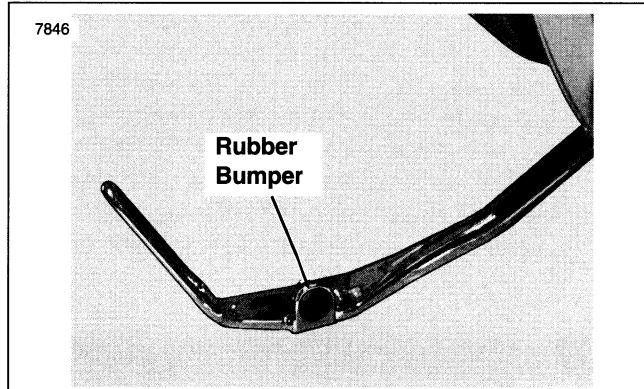


Figure 28. Jiffy Stand (FXDX/FXDXT Shown)

CAUTION

Verify that rubber bumper is in place on prong of jiffy stand. Without the bumper, the stand will make hard contact with the lower frame tube when retracted, which may result in chipping or nicking of the powder coat.

WARNING

Your vehicle is equipped with a jiffy stand that locks when placed in the full forward (down) position and the vehicle weight is rested on it. Without vehicle weight resting on the jiffy stand, any movement of the vehicle could cause the jiffy stand to retract slightly from the full forward position. If the jiffy stand is not in the full forward (lock) position when vehicle weight is rested on it, the vehicle may fall over and could result in death or serious injury.

WARNING

Be sure jiffy stand is fully retracted before riding the motorcycle. If jiffy stand is not fully retracted during vehicle operation, it could contact the road surface causing a momentary disturbance before retracting. This momentary disturbance could distract the rider, which could result in loss of vehicle control and death or serious injury.

NOTES

OPERATING RECOMMENDATIONS

CAUTION

Do NOT run the engine at extremely high RPM with clutch disengaged or transmission in neutral. Running an engine at a high RPM may result in engine damage.

CAUTION

Do NOT exceed the maximum safe RPM specified below under any conditions. Exceeding the maximum safe engine RPM may result in equipment damage.

IMPORTANT NOTE:

The maximum recommended engine speed for DYNA model motorcycles is 5500 RPM.

CAUTION

All Harley-Davidson engines are air-cooled and consequently require air movement over the cylinders and heads to maintain proper operating temperature. Extended periods of idling or parade duty may overheat the engine, resulting in serious engine damage.

NOTE:

The ignition module has an ignition retard feature which will automatically begin to retard the spark advance if the engine exceeds 5000 RPM.

CAUTION

An engine running long distances at high speed must be given closer than ordinary attention to avoid overheating and possible engine damage.

NOTE:

Have the engine checked regularly and keep it well tuned.

This applies particularly to a motorcycle equipped with wind-shield and fairing.

 WARNING

When riding on wet roads or under rainy conditions, keep in mind that braking efficiency is greatly reduced. Caution must be used when applying the brakes, accelerating and turning. This is especially true immediately after the rain begins and oil from the road surface combines with the water. Failure to observe these precautions could result in death or serious injury.

NOTE:

When descending upon a long, steep grade, downshift and use engine compression together with intermittent application of both brakes to slow the motorcycle.

 WARNING

Avoid continuous use of the brakes which may overheat them and cause reduced braking efficiency, which could result in death or serious injury.

CAUTION

Do NOT coast for long distances with the engine off. The transmission is properly lubricated only when the engine is running. Coasting long distances may result in transmission damage.

 WARNING

Do NOT tow a disabled motorcycle with another vehicle. The steering and handling of the disabled motorcycle will be impaired due to the force of the tow line. If a disabled motorcycle must be transported, use a truck or trailer. Towing a disabled motorcycle with another vehicle could cause loss of control of motorcycle and death or serious injury.

BREAK-IN - THE FIRST 500 MILES (800 KM)

NOTES

The sound design, quality materials, and workmanship that is built into your new Harley-Davidson will give you optimum performance right from the start.

We ask that for the first 500 miles (800 km) and to wear-in critical parts, please observe the simple riding rules below. This will assure future performance and durability.

1. During the first 50 miles (80 km), keep the engine speed below 2500 RPM in any gear; however, do not lug the engine.
 2. Up to 500 miles (800 km), vary the engine speed and avoid any steady speed for long distances. Engine speed up to 3000 RPM is permissible in any gear.
 3. Avoid fast starts at wide open throttle; drive slowly until engine warms up.
 4. Avoid running the engine at extremely low RPM in higher gears.
- Do NOT exceed 50 mph (80 km/h) for the first 50 miles (80 km).
 - Do NOT exceed 55 mph (89 km/h) for the first 50 - 500 miles (80-800 km).

PRE-RIDING CHECKLIST

WARNING

Read the **CONTROLS AND INDICATORS** section before riding your motorcycle. Failure to understand the operation of the motorcycle could result in death or serious injury.

Before riding your motorcycle at any time, make a general inspection to be sure it is in **safe** riding condition.

1. Check amount of fuel in tank and add fuel if required.

WARNING

Remove fuel filler cap slowly and fill fuel tank slowly to prevent spillage. Do not overfill or fill above the bottom of the filler neck insert. In addition, leave air space to allow for fuel expansion. Expansion can cause an over-filled tank to overflow gasoline through the filler cap onto surrounding areas. After refueling, be sure fuel filler cap is securely tightened. Failure to do so may cause an explosion or fire which could result in death or serious injury.

WARNING

Gasoline is extremely flammable and highly explosive. Always stop the engine when refueling or servicing the fuel system. Do not smoke or allow open flame or sparks near gasoline. Inadequate safety precautions could result in an explosion and death or serious injury.

2. Adjust mirrors to proper riding positions.
3. See **MAINTENANCE AND LUBRICATION**, Checking Oil Level section. Check oil tank oil level.
4. Check controls to be sure they are operating properly; operate the front and rear brakes, throttle, clutch and shifter.
5. Check steering for smoothness by turning the handlebars through the full operating range.
6. See **SPECIFICATIONS**, Tire Data section.

 WARNING

NOTES:

Maintain proper tire pressure; including wheel and tire balance. Inspect your tires periodically and replace tires with approved tires only. (See your Harley-Davidson Dealer.) Failure to do so may lead to improper balance, abnormal tread wear and/or poor handling which could result in death or serious injury.

7. Check tire condition and pressure. Incorrect pressure will result in poor riding characteristics and can affect handling and stability. Adhere to tire specifications for correct inflation pressures to use.
8. Check all electrical equipment and switches including the stop lamp, turn signals and horn, for proper operation.
9. Check for any fuel, oil or hydraulic fluid leaks.
10. Check rear belt adjustment.
11. Service your motorcycle as necessary.

STARTING THE ENGINE

WARNING

Before starting engine, always shift transmission to neutral to prevent accidental movement which could result in death or serious injury.

CAUTION

Never accelerate the engine above 2500 RPM immediately after a cold start. The engine should be allowed to run slowly for 15-30 seconds. This will allow the engine to warm up and let oil reach all surfaces needing lubrication. Extended idling with enrichener in the full out position for a period longer than 30 seconds is not recommended. Doing so may result in engine damage.

NOTE:

Engine stop switch on the right handlebar control group must be in RUN (ignition ON) position to start engine.

1. See MAINTENANCE AND LUBRICATION, Recommended Engine Oils table. Use recommended oil for extended or expected temperatures.

If you read this section and still have questions about the correct operation of your motorcycle, talk to your authorized Harley-Davidson Dealer.

CV CARBURETORS

NOTES:

- CV Carburetors have an enricher circuit that will cause the engine to idle at approximately 2000 RPM with the engine at normal operating temperature and the enricher knob pulled fully out.
- The increase in idle speed is intended to alert the rider that the engine is warmed up to normal operating temperature and the enricher knob should be pushed all the way in.
- Continuing to use the enricher when the engine is at full operating temperature **WILL CAUSE FOULED SPARK PLUGS.**

CAUTION

Pay close attention to the vehicle's warm-up time. Either excessive or insufficient use of the enricher may cause poor performance, erratic idle, poor fuel economy, spark plug fouling and equipment damage.

NOTE:

The following starting and operating instructions for all Harley-Davidson motorcycles are recommendations. They may be modified for individual vehicles.

COOL ENGINE

Outside Temperature Cooler Than 60°F

1. See Figure 20. Turn the fuel valve to the ON position.
2. See Figure 14. BE SURE THROTTLE IS CLOSED.
3. See Figure 17. Pull enricher knob to full out position.
4. See Figure 12. Turn the ignition switch ON and press starter switch to operate the electric starter.
5. Raise jiffy stand.
6. See Figure 17. After initial 15-30 second warm-up, ride for 3 minutes or 2 miles (3 km) with enricher knob in full out position.
7. After 3 minutes or 2 miles (3 km), push the enricher knob in to the 1/2 way position. Ride 2 minutes or 2 miles (3 km).
8. After 2 minutes or 2 miles (3 km), push the enricher knob fully in.

NOTE:

If outside temperature is cooler than 20°F it may be necessary to "roll" the throttle 2 or 3 times.

Outside Temperature Warmer Than 60° F

See Figure 20. Turn the fuel valve to the ON position. BE SURE THROTTLE IS CLOSED.

1. See Figure 17. Pull enrichener knob to full out position.
2. See Figure 12. Turn the ignition switch on and press starter switch to operate the electric starter.
3. Raise jiffy stand.
4. After initial 15-30 second warm-up, ride for 1 minute or 1/2 mile (1 km) with enrichener knob in full out position.
5. After 1 minute or 1/2 mile (1 km), push the enrichener knob in to the 1/2 way position. Ride 1 minute or a 1/2 mile.
6. After 1 minute or 1/2 mile (1 km), push the enrichener knob fully in.

WARM OR HOT ENGINE

See Figure 20. Turn the fuel valve to the ON position.

1. See Figure 14. Open throttle 1/8 - 1/4 turn.
2. See Figure 12. Turn on ignition switch and operate electric starter. DO NOT USE ENRICHENER.
3. Raise jiffy stand.

NOTE:

If the engine does not start after a few turns or if one cylinder fires weakly but engine does not start, it is usually because of an over-rich (flooded) condition. This is especially true of a hot engine. If the engine is flooded, push enrichener knob in all the way, turn ignition on and operate starter with throttle wide open. DO NOT "pump" the throttle while turning the engine over.

STOPPING THE ENGINE

1. See Figure 14. Stop the engine by turning OFF the engine stop switch on right handlebar.
2. See Figure 12. Turn OFF the ignition key switch. If the engine should be stalled or stopped in any way, turn off the key switch *at once* to prevent battery discharge.
3. See Figure 20. Turn the fuel valve to the OFF position.

SHIFTING GEARS

CAUTION

The clutch must be fully disengaged before attempting a gear shift. Failure to fully engage the clutch may result in equipment damage.

NOTE:

See Figure 29. Always start motorcycle engine in neutral. Always start motorcycle from first gear when the engine is running.

1. Sit upright on the motorcycle and keep the engine idling.
2. See Figure 13. Pull the clutch hand lever in against handlebar grip to fully disengage clutch.
3. See Figure 29. Push the foot shifter lever down firmly, but gently, to end of its travel and engage first gear.

To start moving with motorcycle upright and engine idling:

1. See Figure 13. Release the clutch hand lever slowly to engage the clutch and at the same time, open throttle gradually.

Engage second gear after the motorcycle has run a few yards, as follows:

1. Close the throttle.
 2. Disengage the clutch.
 3. Lift the gear shifter pedal up to the end of its travel and release.
 4. Engage the clutch and operate the throttle gradually.
- Repeat the same operation to engage third, fourth, and fifth gears.
 - To shift to lower gears, reverse the movement of the gear shifter lever.
 - Disengage the clutch completely before each gear change.
 - Partially close the throttle so the engine will not drag when clutch is again engaged.

NOTE:

See Figure 29. By lifting the gear shifter lever up, a higher gear is engaged; by pushing the gear shifter lever down, a lower gear is engaged. When stopping, operate gear shift until you reach neutral. Neutral is 1/2 stroke up from first gear.

5. See Figure 29. Gear shift pattern is first gear down; next four gears up.

WARNING

When shifting to lower gears with the motorcycle in motion, Do NOT downshift at speeds higher than those listed in the table. Shifting to lower gears when speed is too high may severely damage the transmission or cause the rear wheel to lose traction resulting in possible loss of vehicle control and death or serious injury.

CAUTION

Shift to neutral before stopping engine. Shifting mechanism can be damaged by shifting gears while engine is stopped.

NOTE:

Always start motorcycle engine in neutral. Always start motorcycle from first gear when the engine is running.

When engine speed decreases, as in climbing a hill or running at a reduced speed, shift to the next lower gear while partially closing the throttle so the engine accelerates as soon as the clutch lever is pulled.

6. See Table 10. The recommended shift points are as follows:

NOTE:

The gear shifter mechanism on 5-speed motorcycles does not permit shifting the transmission to neutral from second gear. Neutral can only be engaged from first gear.

Table 10. Changing Gear Speeds

GEAR CHANGE	SPEED
Acceleration (Upshift)	
First to Second	15 mph (25 km/h)
Second to Third	25 mph (40 km/h)
Third to Fourth	35 mph (55 km/h)
Fourth to Fifth	45 mph (70 km/h)
Deceleration (Downshift)	
Fifth to Fourth	40 mph (65 km/h)
Fourth to Third	30 mph (50 km/h)
Third to Second	20 mph (30 km/h)
Second to First	10 mph (15 km/h)

NOTES:

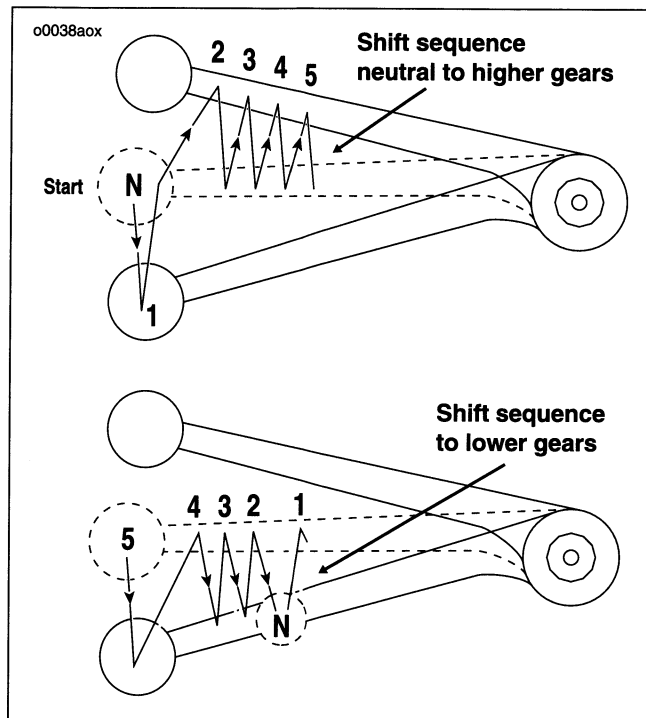


Figure 29. Foot Shifter Lever

NOTES

SAFE OPERATING MAINTENANCE

NOTE:

Refer to the side-view photographs in the front of the manual to locate the items discussed in this manual.

WARNING

For your personal welfare and safety, all the listed service and maintenance recommendations should be performed. Lack of regular maintenance at the suggested intervals, may affect the safe operation of your motorcycle and could result in death or serious injury.

Good maintenance means a safe machine. A careful check of certain equipment must be made after periods of storage and frequently between the regular service intervals to determine if additional maintenance is necessary.

The following items should be checked:

1. Tires for correct pressure, abrasions or cuts.
2. Belt and primary chain for proper tension.
3. Brakes, steering and throttle for responsiveness.
4. Brake fluid level and condition. Hydraulic lines and fittings for leaks. Also, check brake pads and discs for wear.
5. Cables for fraying or crimping and free operation.
6. Engine oil, primary chain case and transmission fluid levels.
7. Wheel spoke tightness, if applicable.
8. Headlamp, tail lamp, brake lamp and directional lamp operation.

BREAK-IN MAINTENANCE

NOTES

NOTE:

The performance of new motorcycle initial service is required to keep your new motorcycle warranty in force, and to assure proper emissions system operation.

See MAINTENANCE SCHEDULING section. After a new motorcycle has been ridden its first 1000 miles (1600 km), it should be taken to the dealer from whom it was purchased for initial service operations. If it is impossible to take the motorcycle to a dealer at the mileage intervals noted, the owner should consult Table 9. REGULAR SERVICE INTERVALS and give the check list attention. In addition, take the motorcycle to your Harley-Davidson Dealer for more complete servicing as soon as it is convenient.

ENGINE LUBRICATION

Engine oil is a major factor in the performance and service life of the engine. Always use the proper grade of oil for the lowest temperature expected before the next scheduled oil change.

See Recommended Engine Oils section. If it is necessary to add oil and H-D oil is not available, use an oil certified for diesel engines.

Acceptable diesel engine oil designations include:

- CF
- CF-4
- CG-4
- CH-4

The preferred viscosities for the diesel engine oils, in descending order are:

- 20W-50
- 15W-40
- 10W-40

At the first opportunity, see a Harley-Davidson Dealer to change back to 100 percent Harley-Davidson oil.

Table 11. Recommended Engine Oils

Harley-Davidson Type	Viscosity	Harley-Davidson Rating	Lowest Ambient Temperature	Cold Weather Starts Below 50°F (10°C)
HD Multi-grade	SAE 10W40	HD 360	Below 40°F (4°C)	Excellent
HD Multi-grade	SAE 20W50	HD 360	Above 40°F (4°C)	Good
HD Regular Heavy	SAE 50	HD 360	Above 60°F (16°C)	Poor
HD Extra Heavy	SAE 60	HD 360	Above 80°F (27°C)	Poor

CHECKING OIL LEVEL

CAUTION

Oil level cannot be accurately measured on a cold engine. For pre-ride inspection, with motorcycle leaning on jiffy stand on level ground, oil should register on dipstick between arrows when engine is cold. Do NOT add oil to bring the level to the FULL mark on a COLD engine.

See Figure 30. for dipstick location.

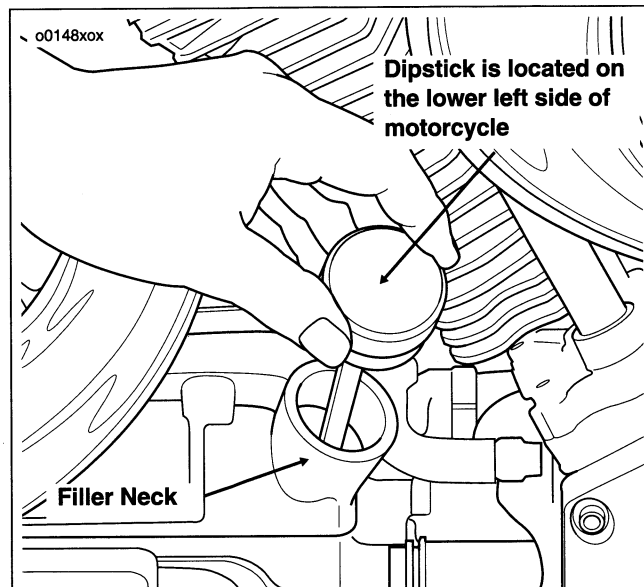


Figure 30. Dipstick Location

Oil Level COLD Check

Perform engine oil level **COLD CHECK** as follows:

1. See Figure 30. With the vehicle resting on the jiffy stand on level ground, wipe off the dipstick and insert it back into the oil pan with the plug pushed **completely** into the fill spout.
2. See Figure 31. Remove the dipstick and note the level of the oil. Oil level should register between the two arrows on the dipstick.

NOTE:

*If oil level is at or below the lower arrow, add only enough oil to bring the level **between** the two arrows on the dipstick.*

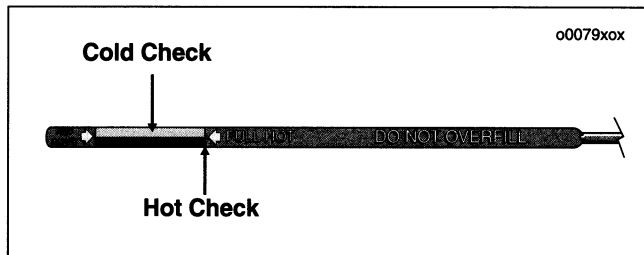


Figure 31. Engine Oil Level

Oil Level HOT Check

Perform engine oil level **HOT CHECK** as follows:

1. Ride motorcycle until engine is at normal operating temperature.
2. With the vehicle resting on the jiffy stand on level ground, allow engine to idle for 1-2 minutes. Turn engine off.
3. Wipe off the dipstick and insert it back into the oil pan with the plug pushed **completely** into the fill spout.
4. Remove the dipstick and note the level of the oil. Add **only** enough oil to bring the level to the FULL mark on the dipstick. **Do not overfill.**
5. Start engine and carefully check for oil leaks around drain plug and oil filter.

Engine oil level should be checked **only** when engine is at normal operating temperature.

NOTE:

The engine will require a longer warm up period in colder weather.

CAUTION

Do NOT allow hot oil level to fall below lower mark on dipstick. Doing so may result in equipment damage and/or equipment malfunction.

CAUTION

Do NOT overfill oil tank. Doing so may result in oil carry-over to the air cleaner leading to equipment damage and/or equipment malfunction.

WARNING

Do NOT switch oil brands indiscriminately because some oils interact chemically when mixed. Use of inferior oils or non-detergent oils can damage the engine.

- Check engine oil supply at each complete fuel refill.
- Oil should be changed after the first 1,000 miles (1,600 km) for a new engine, and thereafter at 5,000 (8,000 km) mile intervals in normal service at *warm or moderate* temperatures.
- Oil change intervals should be shorter in cold weather - See MAINTENANCE AND LUBRICATION, Winter Lubrication section.

See service manual or your Harley-Davidson Dealer for proper procedures on draining the oil.

IMPORTANT NOTE:

Dispose of oil in accordance with local regulations.

ENGINE OIL FILTER

See Figure 32. Oil filters are located on an oil filter mount in front of the engine.

WARNING

Ensure no lubricant gets on rear tire, wheel or brakes when changing fluid. Traction will be adversely affected which could result in loss of control of the motorcycle and death or serious injury.

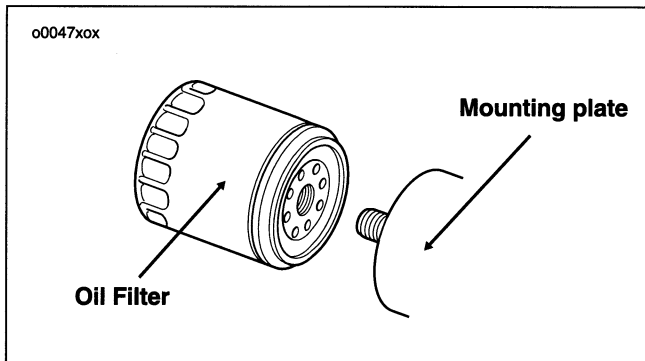


Figure 32. Engine oil Filter

Twin Cam 88 equipped vehicles require the **new** premium oil filter (Part No. **63798-99** Chrome or Part No. **63731-99** Black).

1. Read the appropriate service manual or contact your Harley-Davidson Dealer for the proper procedure on draining the oil.
2. Completely drain the engine oil tank before removing oil filter.
3. Remove the oil filter.

IMPORTANT NOTE:

Dispose of oil and oil filter in accordance with local regulations.

4. Clean filter gasket contact surface on mounting plate (surface should be smooth and free of any debris or old gasket material).

5. See Figure 33. Apply a thin film of oil to gasket contact surface on mounting plate, gasket and new oil filter.

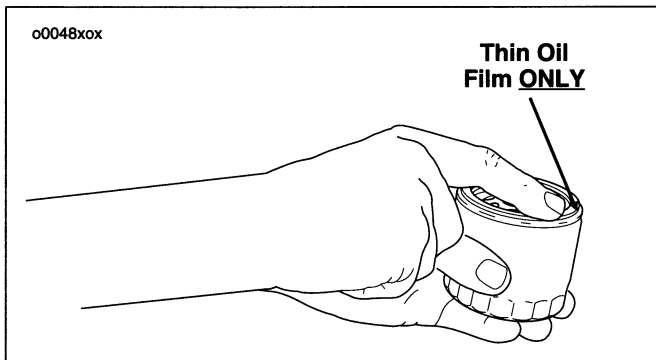


Figure 33. Applying Thin oil Film

6. Screw filter onto adapter until gasket contacts plate surface, then apply another 3/4 to 1 full turn.
7. For model specific information regarding the oil filter, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

WINTER LUBRICATION

Combustion in any engine produces water vapor. When starting and warming up in cold weather, much of the vapor condenses to water on the relatively cool metal surfaces. If the engine is driven enough to get the crankcase thoroughly warmed up frequently, most of this water is again vaporized and blown out through the breather.

A moderately driven engine, making only short runs and seldom getting thoroughly warmed up, is likely to accumulate an increasing amount of water in the oil tank. In freezing weather this water will become slush or ice and if allowed to accumulate too long, may block the oil lines and cause damage to the engine.

Water mixed with oil for some time, forms sludge that is harmful to the engine and causes undue wear of various working parts.

NOTES:

- During winter the oil change interval should be shorter than normal for all engines. Any engine used only for short runs **MUST** have oil drained frequently along with a thorough tank flush-out before new oil is put in tank.
- The further below freezing the temperature drops, the shorter the oil change interval should be.

TRANSMISSION LUBRICATION

See Figure 34. The transmission lubricant level should be checked monthly.

- When filling the transmission, use Harley-Davidson TRANSMISSION LUBRICANT (Part No. **99892-84** (qt.) or **99891-84** (gal.)).

NOTE:

*When checking the transmission lubricant level, motorcycle should be standing **STRAIGHT UP**, not leaning on the jiffy stand. Keep motorcycle upright for a short period of time to equalize lubricant level in the transmission compartments.*

When the engine reaches normal operating temperature, turn the engine off and position motorcycle **STRAIGHT UP** and **LEVEL**.

1. See Figure 34. Remove the threaded filler plug.
2. Clean dipstick.
3. Put dipstick filler plug back into hole, but do not screw in.
4. Remove dipstick and take reading.

Lubricant level should be between the two marks on the dipstick.

5. Add lubricant, if necessary.

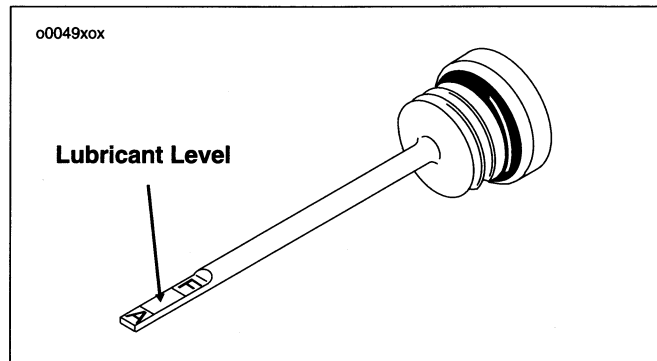


Figure 34. Transmission Lubricant Dipstick

NOTE:

Do not overfill or leakage may occur. The transmission fluid capacity is approximately 24 ounces. When reinstalling the filler plug, tighten to 25-75 in-lbs (2.8-8.5 Nm).

IMPORTANT NOTE:

Dispose of transmission lubricant in accordance with local regulations.

The transmission should be drained and refilled with fresh lubricant after the first 1000 (1600 km) miles and thereafter seasonally or every 5000 miles (8000 km), whichever comes first.

6. For model specific information regarding the transmission, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.
- When installing the drain plug - tighten to specified torque.
- Remove foreign material from end of plug.

CAUTION

When draining and refilling the transmission, be careful that dirt and debris do not get into the case. Failure to remove debris and dirt may result in equipment damage.

WARNING

Ensure no lubricant gets on rear tire, wheel or brakes when changing fluid. Traction will be adversely affected which could result in loss of control of the motorcycle and death or serious injury.

PRIMARY CHAINCASE LUBRICATION

Lubrication is a major factor in the performance and service life of the clutch components. Use appropriate Harley-Davidson chain case lubricant for all operating temperatures. Chain case lubricant should be changed initially at 1000 miles (1600 km) and every 5000 (8000 km) miles thereafter.

- For model specific information regarding the primary chain case capacity, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

PRIMARY CHAIN

Primary (front) chain adjustment should be inspected initially at 1000 miles (1600 km), every 5000 miles (8000 km) thereafter and serviced as necessary.

NOTE:

If the chain is allowed to run loose, it will cause the motorcycle to jerk when running at low speed, and chain and sprockets will wear excessively. If this happens, see your Harley-Davidson Dealer or proceed as follows:

If chain tension adjustment is required, proceed as follows:

1. Remove seat. See SEAT, Removal section.

WARNING

To protect against shock and accidental start-up of vehicle, disconnect the negative (-) battery cable before proceeding. Inadequate safety precautions could result in death or serious injury.

WARNING

Always disconnect the negative (-) battery cable first. If the positive (+) battery cable should contact ground with the negative (-) cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

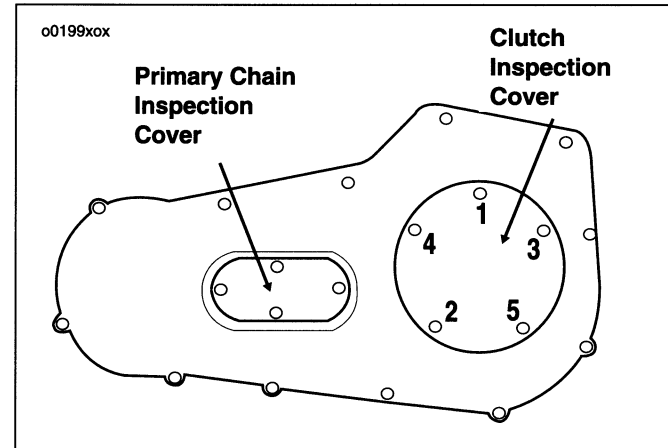


Figure 35. Primary Chaincase Cover

2. Unthread bolt and remove battery negative cable (black) from battery negative (-) terminal
3. See Figure 35. On the left side of the vehicle, remove the four T27 TORX® screws with flat washers to free the primary chain inspection cover from the primary chaincase cover
4. Check the primary chain tension. Push on the upper strand to verify that it has free up and down movement midway between the engine compensating sprocket (front) and the clutch sprocket (rear).
5. See Table 12. Measure the free play to be sure that it falls within the ranges specified for a hot or cold engine.
6. If the chain is too tight or too loose, then adjustment is necessary. Proceed as follows:
 - a. See Figure 36. Locate the chain tensioner assembly and loosen the top center nut a maximum of two turns.
 - b. See Table 12. Raise or lower the chain tensioner assembly as necessary to obtain the specified free play.

NOTES:

- **As chains stretch and wear, they run tighter at one spot than another. Always adjust the free play at the tightest spot in the chain.**
- **Replace the primary chain if it is worn to the point where it cannot be properly adjusted.**

CAUTION

Do not adjust the primary chain tighter than specified. Running a chain that is too tight will result in excessive wear.

NOTE:

Allowing the chain to run loose will cause the motorcycle to jerk when running at low speed resulting in excessive chain and sprocket wear.

- c. Tighten the top center nut of the chain tensioner assembly to 21-29 ft-lbs (28.5-39.3 Nm).
7. Using a **new** gasket, position the primary chain inspection cover in the primary chaincase cover. Install four T27 TORX® screws with flat washers and tighten to 50-70 **in-lbs** (5.6-7.9 Nm).

Table 12. Primary Chain Adjustment Table

PRIMARY CHAIN ADJUSTMENT (Free Play)		
Free Play	Inches	Millimeters
COLD ENGINE	5/8-7/8 in.	15.9-22.2 mm
HOT ENGINE	3/8-5/8 in.	9.5-15.9 mm

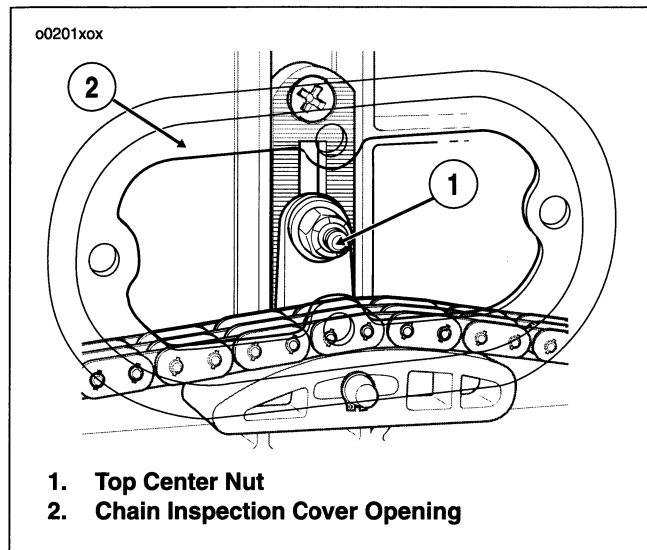


Figure 36. Chain Tensioner Assembly

CHECKING CHAINCASE LUBRICANT

At the 1000 mile service interval, and at every 5000 mile service interval thereafter, replace the primary chaincase lubricant as follows:

1. See Figure 35. Using a T40 TORX® drive head, remove magnetic drain plug at bottom of primary chaincase cover. Drain lubricant into suitable container.
2. Clean drain plug and install in primary chaincase cover. If plug has accumulated a lot of debris, inspect the condition of chaincase components.
3. See Figure 36. Remove five T27 TORX® screws (with captive washers) to free clutch inspection cover from primary chaincase cover.
4. Pour the proper amount and type of primary chaincase lubricant in through the clutch inspection cover opening.

See Figure 37. With the vehicle standing upright, the level of the lubricant must be at the bottom edge of the diaphragm spring or 2-3/4 inches (69.8 mm) from the centerline of the clutch adjuster screw. The primary chaincase capacity is 32 ounces (946 ml). Use only Harley-Davidson PRIMARY CHAINCASE LUBRICANT (Part No. **99887-84** (quart) or Part No. **99886-84** (gallon)).

CAUTION

When draining and refilling the transmission, be careful that dirt and debris do not get into the case. Failure to remove debris and dirt may result in equipment damage.

CAUTION

Do not overfill the primary chaincase with lubricant. Overfilling may cause rough clutch engagement, incomplete disengagement, clutch drag and/or difficulty in finding neutral at engine idle.

5. Remove o-ring from groove in primary chaincase cover. Wipe all lubricant from the o-ring and inspect for cuts, tears or signs of deterioration. Replace as necessary.
6. Swab all lubricant from the o-ring groove. Install o-ring in primary chaincase cover.

CAUTION

If lubricant is not thoroughly removed from both the o-ring and groove, compression of the o-ring during installation of the clutch inspection cover can cause lubricant to be squeezed to the outboard side of the ring groove, resulting in some temporary weepage around the inspection cover.

7. Install the five T27 TORX® screws to secure the clutch inspection cover to the primary chaincase cover. Alternately tighten screws to 7-9 ft-lbs (9.5-12.2 Nm) in a crosswise pattern.

WARNING

When draining or adding lubricant, do not allow dirt, debris or other contaminants to enter the primary chaincase. Exercise caution so that lubricant does not contact rear wheel, tire and brake components. Such contact can adversely affect traction and may lead to loss of vehicle control, which could result in death or serious injury.

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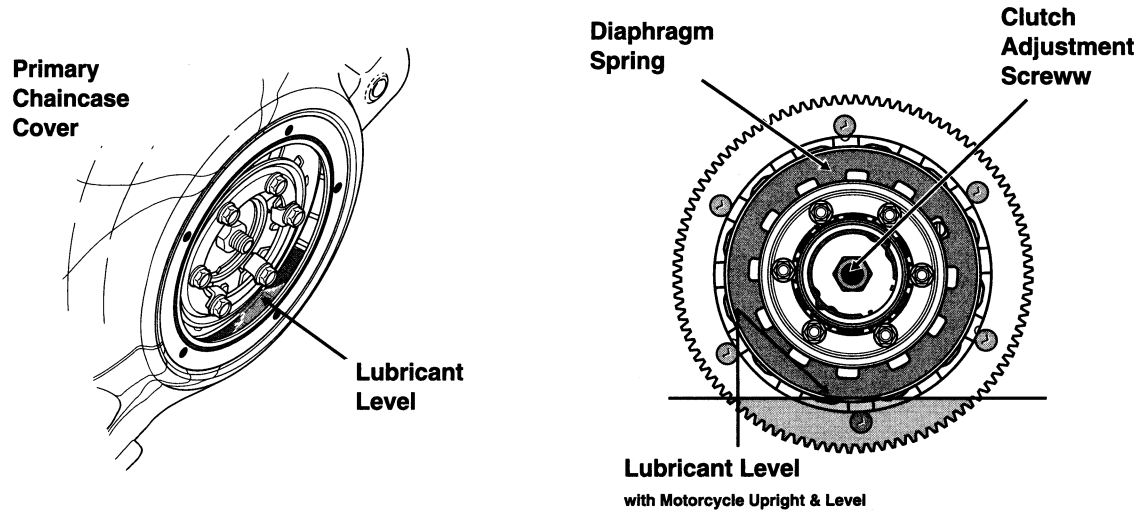


Figure 37. Primary Chaincase Lubricant Filling

REAR DRIVE BELT

The rear drive (secondary) belt inner tooth surface has a thin coating of polyethylene. During initial operation, this coating will wear as it is burnished into the belt fabric. This is a normal condition and not an indication of belt wear.

Belt tension should be checked after the first 1000 miles (1600 km) and every 2500 (4000 km) miles thereafter.

- For model specific information regarding the rear drive belt, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

If belt requires adjustment, see your Harley-Davidson Dealer, or follow instructions given in the applicable Service Manual.

Check rear brake caliper position on rear brake disc. Disc should run true within brake caliper.

WARNING

Align rear wheel and/or brake calipers when servicing motorcycle. A misaligned rear wheel and/or brake caliper could cause the rear brake disc to bind, resulting in death or serious injury.

CHASSIS LUBRICATION

Greasing

CAUTION

Do NOT switch brands/greases indiscriminately because some oils interact chemically when mixed. Use of inferior oils or non-detergent oils can damage the engine.

1. Use recommended special purpose grease for steering head bearings and wheel bearings. Use a multipurpose chassis grease for other applications.

2. Remove and lubricate handlebar throttle control grip sleeve with fresh graphite every 5000 miles (8000 km), once each year, or when operation indicates lubrication is necessary.
3. Every 5000 miles (8000 km) lubricate throttle control cables and clutch control cable. Lubricate front brake hand lever and clutch control hand lever only if necessary.
4. Inspect rear swing arm pivot bushings.
5. Pack the steering head bearings with fresh grease at 10,000 (16,000 km) mile intervals or every 2 years, whichever occurs first.
6. Lubricate the jiffy stand mechanism with LOCTITE LUBRIPLATE® every 5000 miles (8000 km).
- For model specific information regarding the chassis lubrication, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

OIL APPLICATIONS

All control connections and parts as indicated in the REGULAR SERVICE INTERVALS Chart should be oiled regularly, particularly after washing motorcycle or driving in wet weather.

FRONT FORK OIL

Drain front fork oil and refill every 20,000 miles (32,000 km). If fork does not appear to be working properly or an appreciable amount of oil leakage should develop, see your Harley-Davidson Dealer. If there is insufficient oil in either side of fork, the rebound action will be incorrect.

FUEL STRAINER

See Figure 20. A screen type fuel strainer is located on top of the supply valve inside the fuel tank. Screen should be inspected/cleaned every 5000 miles (8000 km). Check the fuel valve, lines and fittings for leakage as part of the pre-ride inspection.

CLUTCH

CAUTION

The clutch control cable must be oiled and adjusted every 5000 miles (8000 km) to compensate for lining wear. Failure to oil and adjust the clutch control cable may result in equipment damage.

The need for attention to clutch and controls will be indicated by the clutch slipping under load, or dragging when released. In this situation, the control cable adjustment should be the first thing to be checked. See your Harley-Davidson Dealer for proper service.

HYDRAULIC LIFTERS

Lifters are self-adjusting, hydraulic type. They automatically adjust length to compensate for engine expansion and valve mechanism wear, keeping the valve mechanism free of lash when the engine is running.

When starting an engine which has been turned off even for a few minutes, the valve mechanism may be slightly noisy until the hydraulic units completely refill with oil. If at any time, other than for a short period immediately after engine is started, valve mechanism becomes abnormally noisy, it is an indication that one or more of the hydraulic units may not be functioning properly.

Always check the oil supply in the oil tank first, since normal circulation of oil through the engine is necessary for proper operation of the hydraulic units.

If there is oil in the tank, the units may not be functioning properly because of dirt in the oil supply passages leading to the lifter units. See your Harley-Davidson dealer for service.

FRONT FORK BEARINGS



Adjustment of front fork bearings should be performed only by your Harley-Davidson Dealer using Service Manual procedures. Improperly adjusted bearings will adversely affect motorcycle handling and stability which could result in death or serious injury.

Check front fork for proper bearing adjustment at 1000 miles (1600 km) and every 5000 miles (8000 km) thereafter. Bearings should be lubricated at 10,000 miles (16,000 km) intervals. With motorcycle front end raised off the floor, be sure front fork turns freely without any binding or interference and that there is no appreciable front to rear fork shake indicating excessive bearing looseness. Steering head bearings should be adjusted according to Service Manual procedure, if necessary.

REAR FORK PIVOT SHAFT

The tightness of the rear fork pivot shaft fastener should be checked after the first 1000 miles (1600 km) and every 5000 miles (8000 km) thereafter.

- For model specific information regarding the rear fork pivot shaft, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

BRAKES

WARNING

Brake pads must be inspected for wear every 2500 miles (4000 km). If you ride under adverse conditions, (steep hills, heavy traffic, etc.) a more frequent inspection at 1000 miles (1600 km) or less, is required. Failure to inspect brake pads for wear could result in death or serious injury.

1. Every 2500 miles (4000 km), check brake pads and brake discs for wear.
 2. Every 5000 miles (8000 km), check the fluid level in the master cylinder reservoirs.
- Use only D.O.T. 5 SILICONE HYDRAULIC BRAKE FLUID (Part No. **99902-77**) approved for brake system use and available from your Harley-Davidson Dealer.

CAUTION

Direct contact of D.O.T.5 brake fluid with eyes may cause eye irritation, swelling, and redness. Avoid eye contact. In case of eye contact flush with large amounts of water and get medical attention. Swallowing large amounts of D.O.T.5 brake fluid may cause digestive discomfort. If swallowed, obtain medical attention. Use in well ventilated area. **KEEP OUT OF REACH OF CHILDREN.**

WARNING

Do not apply either brake strongly enough to lock the wheel. This may cause the wheel to skid with possible loss of control of the motorcycle, which could result in death or serious injury.

 WARNING

Use required tools, correct replacement parts and procedures when performing brake service. Since brakes are a critical safety item, we recommend that you see your Harley-Davidson Dealer for these services. Failure to do so could result in death or serious injury.

See Figure 38. Visual inspection of brake pads can be made without removing the caliper by viewing the lower area of each caliper with the aid of a flashlight.

 WARNING

Do NOT ignore routine maintenance schedules for brakes. Ignoring routine maintenance may cause loss in braking performance and/or brake system component damage, which could result in death or serious injury.

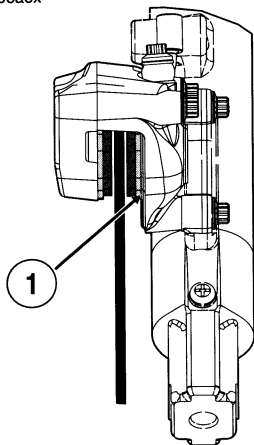
- If the brake pad friction material is .04 in. (1.02 mm) thick or less, the pads must be replaced immediately.
- Always replace brake pads in pairs.

The rear brake outer pad on all models can be measured from the caliper bracket side using a thin plastic 6 in. rule.

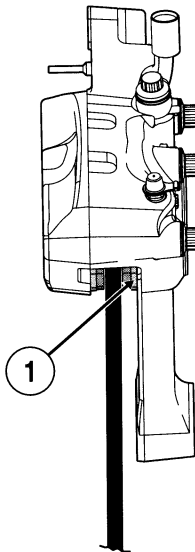
1. Place the rule against the brake disc through the space alongside the caliper.
- The outer surface of the brake pad backing plate should measure .04 in. (1.02 mm) or more away from the brake disc.
 - If it measures less than .04 in. (1.02 mm), replace both brake pads immediately.

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o0107aox



**Front Brake
Bottom View**



**Rear Brake
Top View**

NOTE:

Replace pads if brake friction material (item no. 1) is .04 in. (1.02 mm) or less above the backing plate.

Figure 38. Brake pads

TIRES

See TIRE DATA section.

WARNING

Do not inflate tire beyond its maximum inflation pressure as specified on tire sidewall. Over inflated tires could blow out while vehicle is in operation which could cause loss of control of the motorcycle and death or serious injury.

- Be sure to keep tires properly inflated.
- Follow tire data for correct cold tire inflation pressures.
- Check before riding when tires are cold.
- Do not over-inflate tires.

WARNING

For your personal safety, the tires, rims and air valves must be correctly matched to wheel rims. See your Harley-Davidson Dealer. Mismatching tires, tubes, rims and air valves may result in damage to the tire bead during mounting, allow tire slippage on the rim and cause tire failure, which could result in death or serious injury.

- Check inflation pressure and inspect tread for punctures, cuts breaks, etc., at least weekly if in daily use; or before each trip, if used occasionally.

 WARNING

Riding with excessively worn, unbalanced or improperly inflated tires is hazardous; this will adversely affect traction, steering and handling which could result in death or serious injury.

- Same as original equipment tires should be used. Other tires may not fit correctly, could adversely affect handling, and may be hazardous to use.

 WARNING

Use required tools, correct replacement parts and procedures when performing tire service. Since tires are a critical safety item, we recommend that you see your Harley-Davidson Dealer for these services. Failure to do so could result in death or serious injury.

 WARNING

Do NOT attempt to use damaged or punctured and repaired tire(s). Once a motorcycle tire has been damaged or punctured, it is unsafe to use. Doing so could result in death or serious injury.

 WARNING

A tire can be severely damaged and not show the damage externally. If you strike an object, such as a curb, at speed, internal damage may result which is not visible from the outside. Always remove and carefully inspect the inside as well as the outside of the tire for damage. Failure to do so could result in death or serious injury.

VEHICLE ALIGNMENT

Isolation Mounted Engine Models

The stabilizer links and engine mounts should be checked for wear according to Service Manual procedures after the first 1000 miles (1600 km) and every 5000 miles (8000 km) thereafter.

Vehicle alignment is important. Vehicle stability is adversely affected if wheels are out of alignment. Major alignment of the front and rear wheel is partially controlled by one or two stabilizer links. One at the top of the engine and one at the front of the engine.

WARNING

Do NOT change the adjustment of the link(s). Changing the adjustment as little as 1/3 turn could adversely affect motorcycle stability. Doing so could result in death or serious injury.

See your Harley-Davidson Dealer for this service.

All Models

Vehicle alignment should be checked every 5000 miles (8000 km) and whenever the rear wheel is removed and installed or when the rear drive belt is adjusted.

WARNING

Major vehicle alignment should be performed only by your Harley-Davidson Dealer using Service Manual procedures. Improper vehicle alignment will adversely affect motorcycle handling and stability which could result in death or serious injury.

SHOCK ABSORBERS

See REAR SHOCK ABSORBERS section. Shock absorbers and rubber bushings should be inspected at 1000 miles (1600 km) and every 5000 miles (8000 km) thereafter for leaks and bushing deterioration.

SPARK PLUGS

Check the spark plugs every 5000 (8000 km) miles and replace if necessary. Replace the spark plugs every 10,000 miles (16,000 km) on all models.

Disconnect spark plug cables from plugs by pulling on the molded connector caps. Connection is the simple snap-on type.

CAUTION

Do not pull on any electrical wires. This may damage the internal conductor causing high resistance and reduction in firing voltage.

Before installing spark plugs, the gap should be checked and adjusted if necessary to **0.038 - 0.043 in.** (.97 - 1.09 mm).

Be sure that your motorcycle has the correct spark plug:

- Use a **H-D 6R12** spark plug.

Spark plugs must be tightened to the torque specified for proper heat transfer. Tighten spark plugs to **11-18 ft-lbs** (15 - 24.4 Nm), per spark plug.

NOTE:

If a torque wrench is not available, tighten plugs finger tight; then tighten an additional one quarter turn with a spark plug wrench.

IGNITION

The engines in these motorcycles have been designed specifically to achieve optimum fuel economy within exhaust emission controls. Ignition characteristics have been developed to provide maximum engine performance and driveability.

NOTE:

- The ignition control unit monitors engine load; in certain transient load conditions (as the throttle is opened) the timing changes from normal to fully advanced. At this point, the operator can sometimes hear a noise that is similar to pre-ignition detonation.
- This noise should not be confused with detonation, which can be stopped by the use of a higher grade fuel. It is caused by the instant pressure rise in the combustion chambers as the spark advances rapidly. This noise doesn't affect engine performance.

CARBURETOR

NOTES

The carburetor has been specifically designed for emissions control operation. All jets are fixed at the factory.

Carburetor controls include throttle, enrichener and idle speed adjusting screw. Operation should be checked and adjusted after the first 1000 miles (1600 km) and every 5000 miles (8000 km) thereafter.

CAUTION

Operation at higher altitudes (approximately 4000 ft. elevation) may require carburetor modifications for best engine performance. See your Harley-Davidson Dealer for these adjustments. Failure to do so may result in equipment damage.

We recommend that any carburetor service be performed by your Harley-Davidson Dealer.

AIR CLEANER

See Figure 39. The engine air cleaner is a paper/wire mesh air filter element.

Remove air cleaner cover and inspect filter element at least every 5000 miles (8000 km), or more often under dusty conditions.

The paper/wire mesh air filter element should be washed in luke warm water with a mild detergent.

WARNING

Compressed air can pierce the skin and cause injury. Never use your hand to check for leaks or to determine air flow rates. Wear safety glasses to shield your eyes from flying dirt and debris. Failure to comply could result in death or serious injury.

- Allow filter to either air dry or blow it dry, from the inside, with **low pressure** air.
- Do not use an air cleaner filter oil on the Harley-Davidson paper/wire mesh air filter element.

CAUTION

Secure filter placement before running engine. Failure to do so could draw debris into the engine and may result in equipment damage.

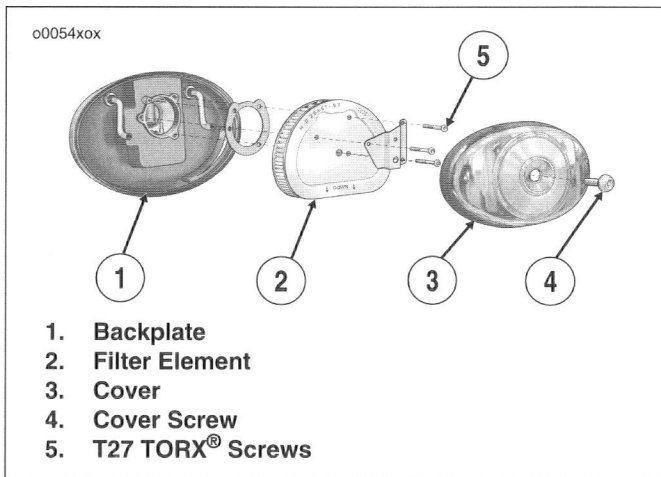


Figure 39. Air Cleaner

HEADLAMP

See Figure 40. The headlamps are either sealed beam or replaceable quartz halogen bulb type.

See the appropriate service manual for more details.

CAUTION

When replacement is required, use only the specified sealed beam unit or bulb, available from your Harley-Davidson Dealer. An improper wattage sealed beam or bulb, may cause charging system problems.

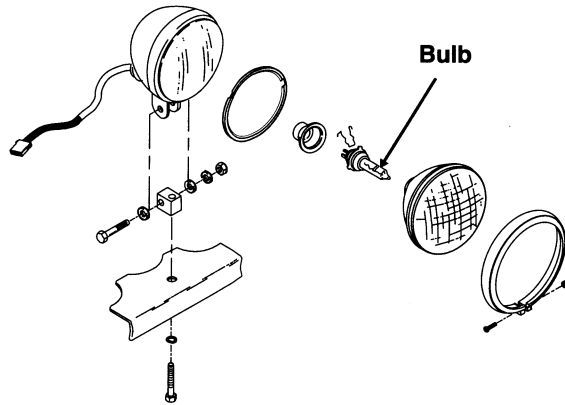
CAUTION

Never touch the quartz bulb with your fingers. Fingerprints will etch the glass and decrease bulb life. Always grab the bulb with paper or a clean dry cloth during handling. Failure to do so may result in bulb damage.

WARNING

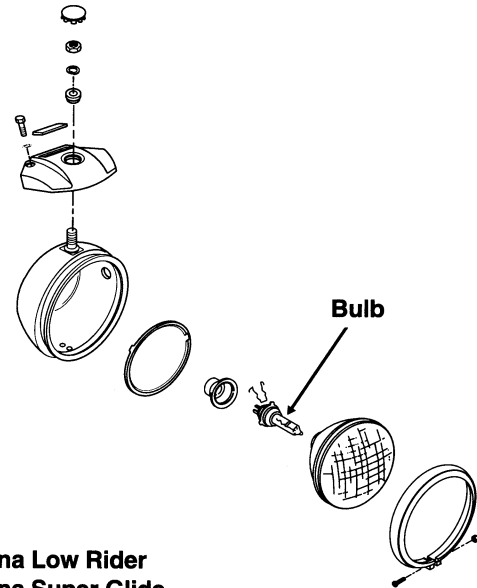
The bulb contains Halogen gas under pressure. Handle bulb carefully and wear eye protection. Failure to do so could result in death or serious injury.

o0081xox



**Dyna Wide Glide
Dyna Super Glide T-Sport**

o0082xox



**Dyna Low Rider
Dyna Super Glide
Dyna Super Glide Sport**

Figure 40. Dyna Headlamps

ALTERNATOR CHARGING RATE AND VOLTAGE REGULATOR

NOTES

The alternator output is controlled and changed to direct current by the voltage regulator located at the front of the engine. The voltage regulator increases charging rate when battery is low or lamps are lit, decreases charging rate when no lamps are lighted and when battery charge is up.

NOTE:

This unit requires no interval attention. If any electrical system trouble is experienced that might be traceable to the alternator or voltage regulator, the motorcycle should be taken to your Harley-Davidson Dealer who has the necessary electrical testing equipment to give the required attention.

- For model specific information regarding the voltage regulator, refer to the appropriate Service Manual or see your Harley-Davidson Dealer.

BATTERY

General

See Figure 41. All Harley-Davidson batteries are permanently sealed, maintenance-free, lead/calcium and sulfuric acid batteries. The batteries are shipped pre-charged and ready to be put into service. **Do NOT attempt to open these batteries for any reason.**

The battery is located on the right side of the motorcycle seat.

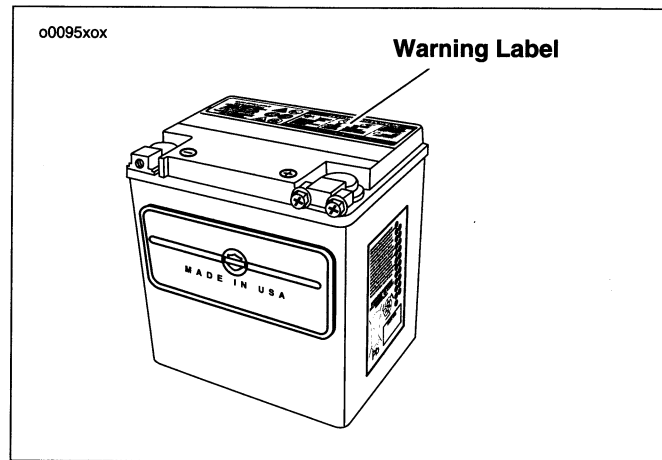


Figure 41. Battery

WARNING

Battery posts, terminals and related accessories contain lead and lead components, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

⚠ WARNING

- All batteries contain electrolyte. Electrolyte is a sulfuric acid solution that is highly corrosive and can cause severe chemical burns. Avoid contact with skin, eyes, and clothing. Avoid spillage. Always wear approved protective face shield, rubberized gloves, and protective clothing when working with batteries or electrolyte solution. **KEEP BATTERIES AND ACID OUT OF REACH OF CHILDREN.**
- See Figure 41. A warning label is attached to the top of the battery. Never remove the warning label from the battery.
- See Figure 42. Inadequate safety precautions and work procedures could result in death or serious injury.

Battery Electrolyte Antidote

PHYSICAL LOCATION	PROCEDURE
EXTERNAL	Flush with water.
INTERNAL	Drink large quantities of milk or water, followed by milk of magnesia, vegetable oil, or beaten eggs. Call doctor immediately.
EYES	Flush eyes with water, and get immediate medical attention.

⚠ WARNING

Never remove warning attached to the top of the battery. Failure to read and understand all precautions contained in warning label on battery before performing any service could result in death or serious injury.

See Figure 42. Battery Warning Label.

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**Contents
are Corrosive**



**Wear Safety
Glasses**



**Contents
are Explosive**



**Keep
Flames Away**



**Read
Instructions**



**Keep Away
From Children**

NON-SPILLABLE

This is a ready filled,
activated, **SEALED BATTERY**.
NEVER remove strip.
Refer to owner's manual
for charging instructions.

If battery is put into service after
date shown, charge for minimum
of 1 hour at 6-10 amps.
(See side of battery for date.)



! DANGER/POISON

3-4425

 **SHIELD
EYES.**
**EXPLOSIVE
GASES CAN
CAUSE BLINDNESS
OR INJURY.**

 **NO**
•SPARKS
•FLAMES
•SMOKING

 **SULFURIC
ACID**
**CAN CAUSE
BLINDNESS OR
SEVERE BURNS.**

**FLUSH EYES
IMMEDIATELY
WITH WATER.**
 **GET
MEDICAL
HELP FAST.**

KEEP OUT OF REACH OF CHILDREN. DO NOT OPEN BATTERY.

Figure 42. Battery Warning Label

BATTERY TESTING

Voltmeter Test

Before you can test your battery you must read the section containing information about seat removal and inspection.

See Table 13. The voltmeter test provides a general indicator of battery condition. Check the voltage of the battery to verify that it is in a 100% fully charged condition. If the open circuit (disconnected) voltage reading is below 12.6V, charge the battery and then re-check the voltage after the battery has set for one to two hours.

Table 13. Voltmeter Test

BATTERY CHARGE CONDITIONS	
Voltage (OCV)	State of Charge
12.8	100%
12.6	75%
12.3	50%
12.0	25%
11.8	0%

BATTERY DISCONNECTION AND REMOVAL

Before you can inspect or disconnect your battery you must read the section containing information about seat removal and inspection.

WARNING

To protect against shock and accidental start-up of vehicle, disconnect the negative (-) battery cable before proceeding. Inadequate safety precautions could result in death or serious injury.

WARNING

Always disconnect the negative (-) battery cable first. If the positive (+) battery cable should contact ground with the negative (-) cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

1. Unthread bolt and remove battery negative cable (black) from battery negative (-) terminal.
2. Unthread bolt and remove battery positive cable (red) from battery positive (+) terminal.
3. Remove lower rear bolt.
4. Remove upper rear bolt. Battery tray will swing down allowing battery tray to be removed.

5. Remove top cover assembly.
6. Remove side cover, if present.
7. Lift battery from tray.

CLEANING AND INSPECTION

Battery top must be clean and dry. Dirt and electrolyte on top of the battery can cause battery to self-discharge.

1. Clean battery top with a solution of baking soda (sodium bicarbonate) and water (5 teaspoons baking soda per quart or liter of water).
2. When the solution stops bubbling, rinse off the battery with clean water.
3. Clean cable connectors and battery terminals using a wire brush or sandpaper; Remove any oxidation.
4. Inspect the battery screws, clamps and cables for breakage, loose connections and corrosion; Clean clamps.
5. Check the battery posts for melting or damage caused by overtightening.
6. Inspect the battery for discoloration, raised top or a warped or distorted case, which might indicate that the battery has been frozen, overheated or overcharged.
7. Inspect the battery case for cracks or leaks.

BATTERY CHARGING

Safety Precautions

Never charge a battery without first reviewing the instructions for the charger being used. In addition to the manufacturer's instructions, follow these general safety precautions:

- **Always wear proper eye, face and hand protection.**
- **Always charge batteries in a well-ventilated area.**
- **Turn the charger "OFF" before connecting the leads to the battery to avoid dangerous sparks.**
- **Never try to charge a visibly damaged or frozen battery.**
- **Connect the charger leads to the battery; red positive (+) lead to the positive (+) terminal and black negative (-) lead to the negative (-) terminal. If the battery is still in the vehicle, connect the negative lead to the chassis ground. Be sure that the ignition and all electrical accessories are turned off.**
- **Make sure that the charger leads to the battery are not broken, frayed or loose.**
- **If the battery becomes hot, or if violent gassing or spewing of electrolyte occurs, reduce the charging rate or turn off the charger temporarily.**
- **Always turn the charger "OFF" before removing charger leads from the battery to avoid dangerous sparks.**

Charging Battery

Charge the battery if any of the following conditions exist:

- **Vehicle lights appear dim.**
- **Electric starter sounds weak.**
- **Battery has not been used for an extended period of time.**

WARNING

Always charge the battery in a well ventilated area. Explosive hydrogen gas escapes from the battery during charging. Keep open flames, electrical sparks and smoking materials away from the battery at all times. Failure to do so could result in death or serious injury.

CAUTION

If the battery releases an excessive amount of gas during charging, decrease the charging rate. If the battery gets hotter than 110°F. (43°C) during charging, disconnect charger and allow the battery to cool. Overheating may result in plate distortion, internal shorting, drying out or other damage.

1. See BATTERY TESTING Section. Perform a voltmeter test to determine the state of charge. If battery needs to be charged, proceed to step 2.

CAUTION

Always remove the battery from the motorcycle before charging. Accidental electrolyte leakage will damage motorcycle parts.

2. See DISCONNECTION AND REMOVAL Section.
3. Remove the battery from the motorcycle.
4. Place the battery on a level surface.

WARNING

Always unplug or turn OFF the battery charger before connecting the charger clamps to the battery. Connecting clamps with the charger ON could cause a spark resulting in a battery explosion. A battery explosion may rupture the battery case causing a discharge or spray of sulfuric acid which could result in death or serious injury.

CAUTION

Do **NOT** reverse the charger connections described in the following steps or the charging system of the motorcycle could be damaged.

5. Connect the red battery charger lead to the positive (+) terminal of the battery.
6. Connect the black battery charger lead to the negative (-) terminal of the battery.

NOTE:

If the battery is still in the vehicle, connect the negative (-) lead to the chassis ground. Be sure that the ignition and all electrical accessories are turned off.

7. See Table 14. Step away from the battery and turn on the charger.

WARNING

Always unplug or turn **OFF** the battery charger before disconnecting the charger clamps from the battery. Disconnecting clamps with the charger **ON** could cause a spark resulting in a battery explosion. A battery explosion may rupture the battery case causing a discharge or spray of sulfuric acid which could result in death or serious injury.

8. After the battery is fully charged, disconnect the black battery charger lead to the negative (-) terminal of the battery.
9. Disconnect the red battery charger lead to the positive (+) terminal of the battery.
10. Mark the charging date on the battery.

Table 14. Battery Charging Rates/Times

Battery Amp-Hour	STATE OF CHARGE		3 Amp Charger	6 Amp Charger	10 Amp Charger	20 Amp Charger
	Voltage Reading	% of Charge				
19	12.8 V	100%	-	-	-	-
	12.6 V	75%	1.75 hours	50 minutes	30 minutes	15 minutes
	12.3 V	50%	3.5 hours	1.75 hours	1 hour	30 minutes
	12.0 V	25%	5 hours	2.5 hours	1.5 hours	45 minutes
	11.8 V	0%	6 hours 40 minutes	3 hours 20 minutes	2 hours	1 hours

The figures listed above assume that the battery is charging at room temperature. If warmer than room temperature, use a slightly shorter charging time. If colder, use a slightly longer charging time.

The use of constant current chargers to charge sealed maintenance-free batteries is not recommended. Any overcharge will cause dry-out and premature battery failure. If a constant current charger is the only type available, do **not** exceed the charge times listed above and do **not** continue charging the battery if it gets hot. When charging, **never** exceed 15 volts for more than 30 minutes.

BATTERY INSTALLATION AND CONNECTION

WARNING

Always unplug or turn OFF the battery charger before connecting the charger clamps to the battery. Connecting clamps with the charger ON could cause a spark resulting in a battery explosion. A battery explosion may rupture the battery case causing a discharge or spray of sulfuric acid which could result in death or serious injury.

1. Place the fully charged battery into the battery box, terminal side inward.

WARNING

When making connections, be sure the jumper cable clamps do not accidentally touch each other or anything else, except correct battery terminals or appropriate ground. Failure to do so could result in death or serious injury.

CAUTION

Connect the cables to the correct battery terminals. Failure to do so may result in damage to the motorcycle electrical system.

WARNING

Always connect the positive (+) battery cable first. If the positive cable (+) should contact ground with the negative (-) cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

WARNING

Do not allow the positive cable (+) to contact ground with the negative (-) cable installed. Resulting sparks may cause a battery explosion which could result in death or serious injury.

CAUTION

Do not overtighten bolts on battery terminals. Use recommended torque values. Overtightening battery terminal bolts may result in damage to battery terminals.

2. Insert bolt through battery positive cable (+) (red) into threaded hole of battery positive (+) terminal.
3. Tighten bolt to 60-96 **in-lbs** (6.8-10.8 Nm) torque.
4. Insert bolt through battery negative cable (black) into threaded hole of battery negative (-) terminal.
5. Tighten bolt to 60-96 **in-lbs** (6.8-10.8 Nm) torque.

CAUTION

Keep battery clean and lightly coat terminals with petroleum jelly to prevent corrosion. Failure to do so may result in damage to battery terminals.

6. Apply a light coat of petroleum jelly or corrosion retardant material to both battery terminals.
7. Install battery side cover, if present. Make sure the bottom of the cover's outboard side is properly seated inboard of the retaining lip on the base of the battery tray.
8. Install top cover assembly over side cover and battery.
9. Install upper rear bolt and tighten to 15-20 ft-lbs (20.3-27.1 Nm) torque.

10. Install lower rear bolt and tighten to 15-20 ft-lbs (20.3-27.1 Nm) torque.

11. Install seat.

12. Pull up on seat to verify that it is properly secured.

WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift during vehicle operation, resulting in loss of control of vehicle and death or serious injury.

BATTERY STORAGE

⚠ WARNING

Always store the battery out of the reach of children. Inadequate safety precautions could result in death or serious injury.

CAUTION

Do not allow the battery to completely discharge power. The electrolyte in a discharged battery will freeze if exposed to freezing temperatures. The more discharged a battery is, the more easily it can freeze. A completely discharged battery may result in a cracked battery case and buckled battery plates.

See BATTERY CHARGING Section. If the motorcycle will not be operated for several months, such as during the winter season, remove the battery from the motorcycle and fully charge.

See Figure 43. Self-discharge is a normal condition and occurs continuously at a rate that depends on the ambient temperature and the battery's state of charge.

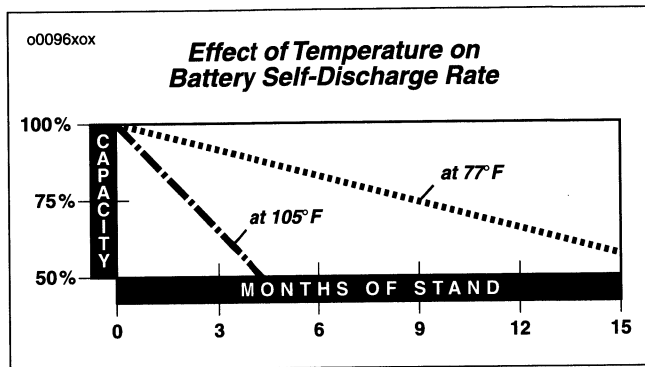


Figure 43. Battery Self-Discharging Rate

- Batteries discharge at a faster rate at higher ambient temperatures.
- To reduce the self-discharge rate, store battery in a cool (not freezing), dry place.
- Charge the battery every month if stored at temperatures below 60° F. (16° C).
- Charge the battery more frequently if stored in a warm area above 60° F. (16° C).

NOTE:

The H-D Battery Tender Plus! Automatic Battery Charger (Part No. 99863-93TA) may be used to maintain battery charge for extended periods of time without risk of overcharging or boiling.

When returning a battery to service after storage, refer to the instructions in the BATTERY CHARGING Section

CAUTION

Do NOT trickle charge battery more than 24 hours at a time. Charging more than 24 hours at a time may result in equipment damage.

CAUTION

It is possible to overload your motorcycle's charging system by adding too many electrical accessories. If your combined electrical accessories consume more electrical current than your vehicle's charging system can produce, the electrical consumption can discharge the battery and cause vehicle electrical system damage. See your dealer for advice about the amount of current consumed by additional electrical accessories, or for necessary wiring changes.

NOTES

JUMP - STARTING PROCEDURE

Harley-Davidson does **NOT** recommend jump-starting a motorcycle. However, there may be circumstances when it is necessary to do so. Therefore, we suggest jump-starting be performed as follows:

WARNING

When making battery connections, be sure the jumper cable clamps do not accidentally touch each other or anything else, except battery terminals or appropriate ground. Improper connections may cause a spark and battery explosion which could result in death or serious injury.

WARNING

Do **NOT** smoke or allow sparks while performing jumper cable procedures. Smoking or sparks could cause an explosion which could result in death or serious injury.

NOTE:

This procedure presumes the BOOSTER battery is in another vehicle.

CAUTION

All Harley-Davidson motorcycles have a 12 Volt battery and a 12 Volt electrical system. Be sure the booster vehicle has a 12 Volt system. Failure to do so may result in property damage.

1. Turn off **ALL** unnecessary lights and accessories.

Positive Cable

2. See Figure 44. Connect one end of a jumper cable to the DISCHARGED battery positive (+) terminal.
3. Connect the other end of the same cable to the BOOSTER battery positive (+) terminal.

Negative Cable

4. Connect one end of a jumper cable to the BOOSTER battery negative (-) terminal.

! WARNING

Do not connect negative (-) cable to or near the discharged battery negative (-) terminal. Doing so could cause a spark and explosion, which could result in death or serious injury.

CAUTION

Do NOT connect the negative (-) cable to painted or chrome parts. Doing so may result in discoloration at the attachment point.

5. Connect other end of the same cable to a safe ground, (away from the DISCHARGED battery).
6. Start motorcycle.
7. Disconnect cables in reverse order of steps 2, 3, 4, 5. That is: steps 5, 4, 3, 2.

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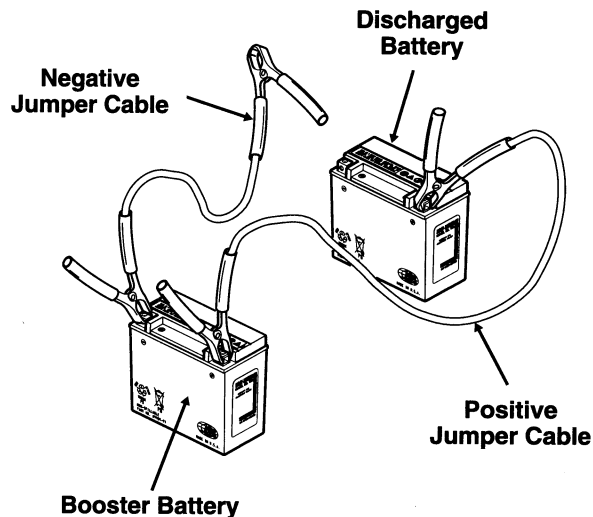


Figure 44. Jump Start Cable Connections

FUSE REPLACEMENT

1. Place the Ignition/Light Key switch in the OFF position.
2. See Figure 45. Gently pull left side cover from frame (no tools required).
3. Remove the fuse and inspect the element.
4. Replace the fuse if the element is burned or broken.

CAUTION

Always use replacement fuses that are of the correct type and amperage rating. Use of incorrect fuses can result in damage to electrical systems.

IMPORTANT NOTE:

*The fuse labeled **Security** provides basic turn signal functionality on vehicles without a factory-installed security system. Do not remove this fuse or use it as a replacement fuse for other systems.*

NOTE:

Automotive type ATO fuses are used for replacements. Spare fuses can be found behind the electrical panel top plate.

5. Align studs in side cover with grommets in frame and push firmly the side cover into place (no tools required).

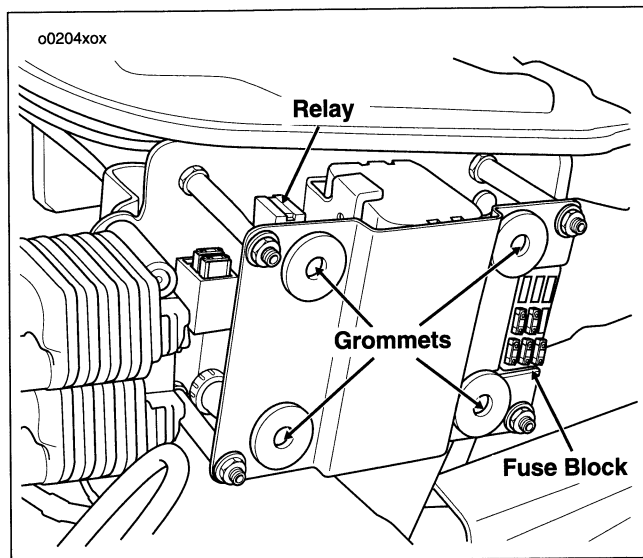


Figure 45. Fuse Block

CIRCUIT BREAKERS

NOTES

All models have a main circuit breaker to protect the motorcycle wiring. Circuit breakers are self-resetting and automatically return steady power to the circuit when an electrical fault that causes it to trip is found and corrected. If the electrical fault is not found and corrected, the breaker cycles on and off causing the motorcycle to operate erratically and eventually the battery will lose its charge.

For electrical problems, it is best to see your Harley-Davidson dealer who has necessary parts and equipment to perform electrical services.

SEAT REMOVAL

CAUTION

Do NOT lose the nylon retaining clip between the rear seat bracket and the fender. In addition, Do NOT substitute a clip of different material or install the seat without this clip. Doing so may result in scratched fender paint.

1. See Figure 46. Detach seat mounting bracket from top of rear fender.

NOTE:

The straps are secured to the fender under the seat by a nut and washer.

2. Raise seat and remove nut and washer from seat straps.
3. Slide seat to the rear of the motorcycle and lift seat.
4. It is not necessary to remove the seat bracket and its fasteners from the seat pan.

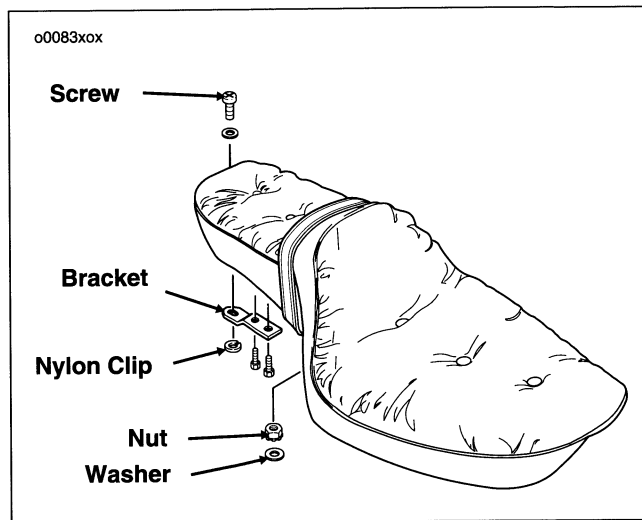


Figure 46. Seat (FXD Model)

SEAT INSTALLATION

NOTES

1. Place seat on frame backbone.

NOTE:

There is a U-shaped bracket at the front of the seat that slips under the frame bracket.

2. Slide seat toward front of motorcycle until the u-shaped bracket under the seat locks into the frame bracket.
3. See Figure 46. Push seat forward until rear fender seat retention nut is centered in hole of mounting bracket.
4. Install washer and nut to secure seat straps.
5. Install screw and bracket to fender.
6. Ensure nylon retaining clip is in position on fender.

WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift during vehicle operation, resulting in loss of control of vehicle and death or serious injury.

7. Pull up on seat to verify that it is properly secured.

SADDLEBAGS (FXDXT)

WARNING

It is extremely important to insure saddlebags are completely engaged by pulling lower portion of saddlebag outward (away from bike) after installation. If saddlebags are not completely engaged, they may fall off during vehicle operation which may result in loss of vehicle control and death or serious injury.

NOTE:

*The saddlebag mounts are designed with docking points and a keeper (on saddlebags) and latch pin (on fender). During installation, even though you may hear the saddlebags snap in place, they may not be totally engaged. Make sure saddlebags engage **both** docking points and keeper fully engages latch pin.*

The FXDXT saddlebags can be quickly removed from the vehicle. The bags have two compartments and water repellant raincovers. The raincovers are stored in each outer pocket of the saddlebags and are unique left and right sides. It is important to install the raincovers between the top of the covered wire hoop at the bottom of the bag, and the bottom surface of the bag. If the raincovers are installed below the covered wire hoop on the exhaust side, burning may occur. The main compartment opens with the inboard zipper, and

can be expanded an additional 3" by opening the outboard zipper. Snaps are provided to fasten the cover in both positions.

CAUTION

The provided raincover must be installed with bottom of raincover between saddlebag and wire frame hoop cover. If raincover is below the wire frame hoop cover, it may contact the exhaust system and melt causing damage to the raincover and exhaust system.

Removal

1. See Figure 47. Push keeper release button in while slightly pulling lower portion of saddlebag away from fender. Firmly push saddlebag up and forward at the same time to disengage saddlebag from docking points.

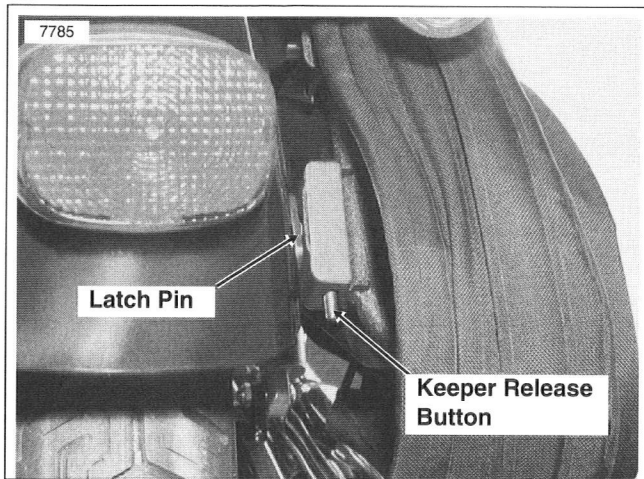


Figure 47. Keeper Release Button

Installation

1. See Figure 48. and Figure 49. Align larger portion of cutouts in saddlebag with docking points located on fender stud.
2. Firmly push saddlebag down and towards the rear at the same time to engage cutouts with docking points.

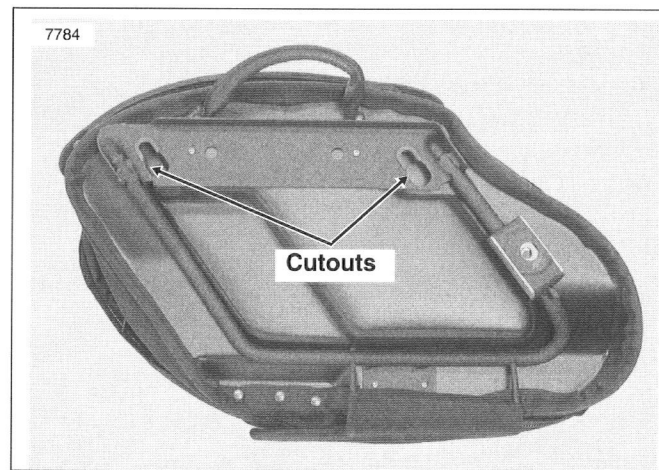


Figure 48. Cutouts

3. See Figure 49. Align saddlebag keeper with latch pin mounted on rear fender
4. Using both hands, firmly push lower portion of saddlebag toward motorcycle until keeper completely "captures" latch pin.

5. Using both hands, pull outward on bottom of saddlebag to insure latch pin is completely engaged.
6. Repeat steps 1 thru 5 for opposite side.

NOTES

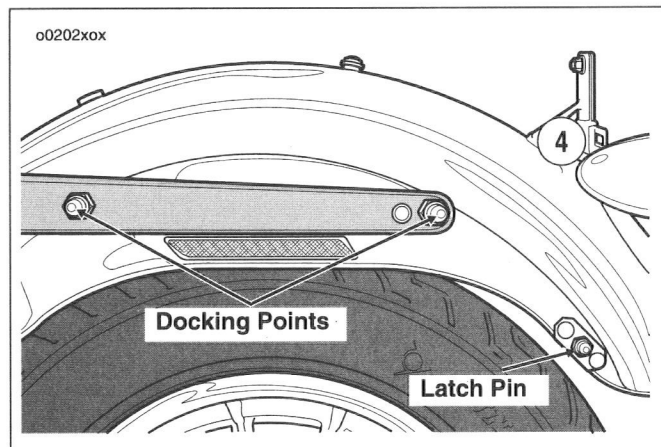


Figure 49. Docking Points/Latch Pin

WINDSHIELD (FXDXT)

See Figure 50. The fairing/windshield position can be adjusted to suit rider comfort. The adjustment allows 2" of vertical movement.

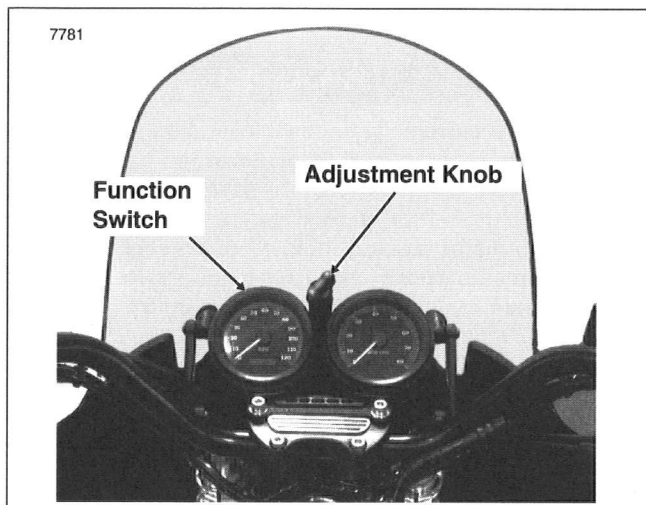


Figure 50. Windshield (FXDXT)

1. To raise the windshield, turn the adjustment knob clockwise (CW).
2. To lower the windshield, turn the adjustment knob counterclockwise (CCW).

NOTES:

- To access the speedometer function switch, the windshield must be fully raised.
- Knob effort to raise the windshield will increase as vehicle speed/headwind increases.

Removal/Installation

To remove or install the FXDXT windshield, see 2001 Dyna Models Service Manual (Part No. **99481-01**).

MOTORCYCLE STORAGE

CAUTION

Proper long-term storage is important for the safe, trouble-free operation of your Harley-Davidson motorcycle. If you do not do these tasks yourself, contact your Harley-Davidson Dealer. Your dealer has the trained technicians who can complete the work according to Service Manual procedures using proper tools and equipment. Failure to properly store your motorcycle may result in equipment damage.

PLACING MOTORCYCLE IN STORAGE

If the motorcycle will not be operated for several months, such as during the winter season, there are several things which should be done to protect parts against corrosion, to preserve the battery and to prevent the buildup of gum and varnish in the fuel system.

WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Use care when handling gasoline. Do NOT store motorcycle having gasoline in tank within the home or garage where open flames, pilot lights, sparks or electric motors are present. Inadequate safety precautions could cause an explosion or fire which could result in death or serious injury.

NOTE:

Make a list of everything you do and fasten it to a hand-grip. When you take the motorcycle out of storage, this list will be your reference/checklist to get your motorcycle in operating condition.

1. Warm motorcycle to operating temperature; change oil and turn engine over to circulate the new oil.
2. Fill fuel tank and add a gasoline stabilizer. Use one of the commercially available gasoline stabilizers, following the manufacturer's instructions.
3. Run the engine until the gasoline stabilizer has had a chance to reach the carburetor float bowl/fuel injectors.
4. Turn fuel supply valve OFF.
5. Adjust the belt.
6. Check tire inflation. Adjust to proper inflation pressure. Wash and wax painted and chrome surfaces.
7. See BATTERY Section for proper battery care. Remove battery from the motorcycle and charge. Store the battery above freezing temperatures, trickle charge once a month.

WARNING

Always charge the battery in a well ventilated area. Explosive hydrogen gas escapes from the battery during charging. Keep open flames, electrical sparks and smoking materials away from the battery at all times. Failure to do so could result in death or serious injury.

8. If motorcycle is to be covered, use a material such as light canvas, that will breathe. Plastic materials that do not breathe promote the formation of condensation.

REMOVAL FROM STORAGE

WARNING

After extended periods of storage and prior to starting vehicle, place transmission in gear, disengage clutch and push vehicle back and forth a few times to ensure proper clutch disengagement. Failure to do so could result in death or serious injury.

1. See BATTERY Section for proper battery care. Charge and install it.
2. Remove and inspect the spark plugs. Replace if necessary.
3. Clean the air cleaner element.
4. Start the engine and run until it reaches normal operating temperature. Turn off engine.
5. Check amount of oil in the oil tank.
6. Check the transmission lubricant level.
7. Check controls to be sure they are operating properly. Operate the front and rear brakes, throttle, clutch and shifter.
8. Check steering for smoothness by turning the handlebars through the full operating range.

WARNING

Maintain proper tire pressure, including wheel and tire balance. Inspect your tires periodically and replace tires with approved tires only. (See your Harley-Davidson Dealer.) Failure to do so can lead to improper balance, abnormal tread wear, poor handling and could result in death or serious injury.

9. Check tire pressure. Incorrect pressure will result in poor riding characteristics and can affect handling and stability.
10. Check all electrical equipment and switches including the stop lamp, turn signals and horn for proper operation.
11. Check for any fuel, oil or brake fluid leaks.

CAUTION

Turn engine over a few times to be sure there is no oil in the crankcase and that all oil has been pumped back into the oil tank. Stop engine and re-check oil level. Failure to do so may result in equipment damage.

GENERAL MAINTENANCE

Chrome and aluminum parts must be maintained regularly to ensure that they retain their original shine and luster. Care should be taken to keep your new Harley-Davidson motorcycle cleaned and waxed as often as possible to inhibit rust and corrosion.

CLEANING YOUR MOTORCYCLE

To aid you in keeping your motorcycle clean, see your Harley-Davidson Dealer for cleaning, polishing and waxing products.

WARNING

Observe warnings and cautions given on labels of cleaning compounds. Failure to observe warnings and cautions could result in death or serious injury.

WARNING

Do NOT wash your brake discs with any cleaners that contain either chlorine or silicon; chlorine will cause rust, while silicon will make the brake discs slick and impair brake function. Doing so could result in death or serious injury.

WARNING

When washing your motorcycle, be careful not to get the brakes, engine, mufflers or air cleaner too wet. Wet brake pads or a wet disc may affect braking, while a wet engine could start and run poorly until it dries. Start engine immediately after washing and be sure brakes and engine are operating properly before riding in traffic. Failure to do so could result in death or serious injury.

LEATHER CARE

NOTE:

Many Harley-Davidson accessories and seats are either made of leather or have leather inserts. Natural materials age differently and require different care than man-made materials. Seat covers and panels made of leather will gain "character", such as wrinkles, with age. Leather is porous and organic and each leather product will settle into its own distinct form with use. Your leather product will mature into its own custom shape and style from the sun, rain and the miles. This maturing is natural and will enhance the custom quality of your Harley-Davidson motorcycle.

Leather must be periodically cleaned and treated to maintain its appearance and extend its life. Clean and treat leather once a season or more frequently under adverse conditions.

CAUTION

Do NOT use bleach or detergents containing bleach on saddlebags, seats or tank panels. Doing so may result in equipment damage.

- Do not use ordinary soap to clean leather or fur. It could dry or remove the oils from the leather.
 - Use ONLY a good quality saddle soap to clean leather. Be sure you rinse saddle soap off thoroughly before treating leather.
 - Never try to dry leather quickly, using artificial means. Always let leather dry naturally, at room temperature.
1. Vacuum or blow dust off.
 2. Thoroughly clean leather with a good quality saddle soap, following manufacturer's directions. Rinse thoroughly with clean sponge or cloth and water. Allow leather to dry.
 3. Once leather is dry, treat with a good quality leather treatment, such as **Harley-Davidson Leathercare®**.
 4. Always allow leather to dry completely before using.

CLOTH CARE

1. Vacuum or blow dust off.
2. Use mild soap and warm water for more difficult stains on the cloth. Rinse thoroughly. Always allow cloth to dry completely before using.

VINYL CARE

Wash with a good quality detergent or S100®. Treat with Mothers Preserves® or a quality vinyl treatment.

WHITEWALL TIRES



When washing vehicle, be careful not to get the brakes wet. Wet brake system pads and/or discs may adversely affect braking performance which could result in death or serious injury.

Use a good quality, commercial whitewall cleaner and follow the manufacturer's directions.

WHEEL CARE

To maintain the original luster and appearance of the wheels on your Harley-Davidson motorcycle, care should be taken to keep them clean and polished as often as possible to inhibit rust and corrosion.

The spokes of our laced wheels are plated. This plating can be damaged by harsh chemicals, acid based wheel cleaners, brake dust and lack of maintenance. Regular washing and the use of a corrosion protectant will help to maintain their original appearance. Aluminum wheels (spoked and disc) do not have clear coat on any of the machined surfaces. For this reason it is imperative that the wheels are washed and waxed weekly to prevent pitting and corrosion. Harsh chemical washes, brake dust, road salts and lack of maintenance can quickly cause pitting and corrosion to appear.

The use of a corrosion protectant will also aid in preserving the appearance of the aluminum wheel.

NOTE:

Corrosion of these components is not considered to be a defect in materials or workmanship.

See your Harley-Davidson Dealer for cleaning, polishing and waxing products.

WINDSHIELDS

CAUTION

Harley-Davidson windshields are made of Lexan®. Lexan is a more durable and distortion-resistant material than other types of motorcycle windshield material, but still requires attention and care to maintain. Failure to maintain Lexan® properly may result in damage to the windshield.

CAUTION

Do NOT use harsh chemicals including rain sheeting products on Harley-Davidson windshields. They may cause dulling or hazing. If you want to use a windshield protectant on your windshield, try Harley Glaze Polish and Sealant.®

CAUTION

Do NOT use benzine, paint thinner, gasoline or any other types of harsh cleaner on the windshield. Doing so will damage the windshield surface.

NOTE:

- To remove minor surface scratches use NOVUS® No. 2 Scratch Remover (Part No. 99836-94T).
 - Covering the windshield with a clean, wet cloth for approximately 15-20 minutes before washing will make dried bug removal easier.
1. Use mild soap and warm water to wash the windshield.
 2. Wipe dry with a soft, clean towel.

GENERAL

The following checklist of possible operating troubles and their probable causes will be helpful in keeping your motorcycle in good operating condition. More than one of these conditions may be causing trouble and should be carefully checked.

WARNING

The troubleshooting section of this Owner's Manual is intended solely as a guide to diagnosing problems. Carefully read the appropriate sections of this manual before performing any work. Repair and maintenance operations not listed in this Owner's Manual are in the Service Manual and should be performed by your Harley-Davidson Dealer. Improper repair and/or maintenance could result in death or serious injury.

NOTES

ENGINE

Starter Does Not Operate or Does Not Turn Engine Over

1. Engine run switch in "OFF" position.
2. Ignition switch not "ON."
3. Discharged battery or loose or corroded connections (solenoid chatters).

Engine Turns Over But Does Not Start

1. Fuel tank empty.
2. Fuel Valve turned "OFF".
3. Fuel vacuum line disconnected.
4. Fuel valve or filter clogged.
5. Discharged battery or loose or broken battery terminal connections.
6. Fouled spark plugs.
7. Spark plug cable connections loose or in bad condition and shorting.
8. Loose or corroded wire or cable connection(s) at coil or battery.
9. Engine flooded with fuel as a result of over-enrichening.
10. Engine oil too heavy (winter operation).
11. Throttle held open when enrichener is used.
12. Fuel pump inoperative (If applicable).

Starts Hard

1. Spark plugs in bad condition, have improper gap, or are partially fouled.
2. Spark plug cables in bad condition and leaking.
3. Battery nearly discharged.
4. Loose wire or cable connection(s) at one of the battery terminals or at coil.
5. Carburetor not adjusted correctly.
6. Engine oil too heavy (winter operation).
7. Ignition not timed properly. See dealer.
8. Fuel tank vent plugged or fuel line closed off, restricting fuel flow.
9. Water or dirt in fuel system.

Starts But Runs Irregularly or Misses

1. Spark plugs in bad condition or partially fouled.
2. Spark plug cables in bad condition and leaking.
3. Spark plug gap too close or too wide.
4. Battery nearly discharged.
5. Damaged wire or loose connection at battery terminals or coils.
6. Intermittent short circuit due to damaged wire insulation.
7. Water or dirt in fuel system.
8. Fuel vent system plugged. See dealer.

A Spark Plug Fouls Repeatedly

1. Excessive enrichener use.
2. Fuel mixture too rich.
3. Incorrect spark plug.

Pre-ignition or Detonation (Knocks or Pings)

1. Incorrect fuel.
2. Incorrect spark plug for the kind of service.

Overheats

1. Insufficient oil supply or oil not circulating.
2. Heavy carbon deposit from "lugging" engine. See dealer.
3. Ignition timing retarded. See dealer.

Excessive Vibration

1. Stabilizer links worn or loose. See dealer.
2. Engine isolation mounts loose. See dealer.
3. Rear fork pivot shaft nuts loose. See dealer.
4. Front engine mounting bolts loose. See dealer.
5. Engine to transmission mounting bolts loose. See dealer.
6. Broken frame. See dealer.
7. Belt badly worn.
8. Wheels and/or tires damaged. See dealer.
9. Vehicle not properly aligned. See dealer.

LUBRICATION SYSTEM

Oil Does Not Return to Oil Tank

1. Oil tank empty.
2. Restricted oil lines or fittings. See dealer.
3. Restricted oil filter. See dealer.

Engine Leaks Oil From Cases, Push Rods, Hoses

1. Loose parts. See dealer.
2. Imperfect seal at gaskets, push rod cover, washers, etc. See dealer.
3. Restricted oil return line to tank. See dealer.

ELECTRICAL SYSTEM

Alternator Does Not Charge

1. Module not grounded. See dealer.
2. Engine ground wire loose or broken. See dealer.
3. Loose or broken wires in charging circuit. See dealer.

Alternator Charge Rate is Below Normal

1. Weak battery.
2. Excessive use of add-on accessories.
3. Loose or corroded connections.
4. Extensive periods of idling or low speed riding.

CARBURETOR

Carburetor Floods

1. Excessive "rolling" of hand throttle grip.

TRANSMISSION

Transmission Shifts Hard

1. Bent shifter rod. See dealer.
2. Transmission shifting mechanism needs adjustment. See dealer.

Transmission Jumps Out of Gear

1. Shifter rod improperly adjusted. See dealer.
2. Shifter forks (inside transmission) improperly adjusted. See dealer.
3. Worn shifter dogs in transmission. See dealer.

Clutch Slips

1. Clutch controls improperly adjusted. See dealer.
2. Worn friction discs. See dealer.
3. Insufficient clutch spring tension. See dealer.

Clutch Drags or Does Not Release

1. Clutch controls improperly adjusted. See dealer.
2. Insufficient clutch spring tension. See dealer.
3. Transmission case overfilled.
4. Clutch discs warped. See dealer.

Clutch Chatters

1. Friction discs or steel discs worn or warped. See dealer.

BRAKES

Brakes Do Not Hold Normally

1. Master cylinder low on fluid. See dealer.
2. Brake line contains air bubbles. See dealer.
3. Master or wheel cylinder piston worn. See dealer.
4. Brake pads contaminated with grease or oil. See dealer.
5. Brake pads badly worn (1/16 in. minimum lining thickness). See dealer.
6. Brake disc badly worn or warped. See dealer.
7. Brake fades because of heat build up. Excessive braking or brake pads dragging. See dealer.
8. Brake drags. Insufficient hand lever free play. See dealer.

NOTES

SECURITY SYSTEM FUNCTIONS

Security System Operation

The Security System provides security and immobilization functions. The Security System will disable the starter, ignition or EFI system. Additional functions include the ability to flash all four turn signals and sound a siren (if purchased as an option) if a theft attempt is detected.

Conditions that activate the Security Alarm when the system is armed include:

- Detecting vehicle movement.
- Detecting tampering of the ignition switch circuit.
- Detecting tampering of the security lamp circuit.
- Detecting that a battery disconnect has occurred while armed. (Activates siren only if P&A siren is installed.)

See ARMING/DISARMING SECURITY SYSTEM Section for more information.

Security System Options

The following configurations are available on the Security System unit:

- Tamper warning sensitivity.
- Auto-arming feature.
- Storage mode.

Factory settings for the Security System include:

- Medium motion sensitivity on tamper warning.
- Key FOB arming mode.
- Storage Mode set to 60 days.

FCC REGULATIONS

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada rules.

Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

SECURITY ALARM AND IMMOBILIZATION FUNCTIONS

- **Remote arming/disarming:** See Figure S-1. Owners may enable and disable security alarm and immobilization functions with a remote, personally carried transmitter. This transmitter is referred to as a key **FOB** within this document.

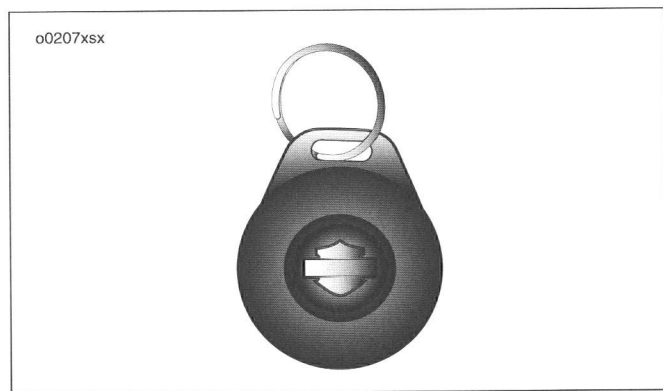


Figure S-1. Key FOB

- **Security status lamp:** See Figure S-2. A lamp within the speedometer face tells the rider if the system is armed or disarmed.

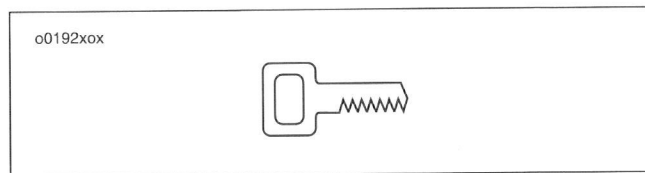


Figure S-2. Security Status Lamp

- **Personal code disarming:** If a key FOB is not available, the Security System allows the rider to disable the security alarm and immobilization functions if the rider knows the previously entered personal code.
- **Security command confirmation:** When the system is armed or disarmed, the system provides visual feedback to the rider by flashing the turn signals. The siren will “chirp” to indicate an armed state if equipped with a P&A siren.
- **Auto-arming:** Arms the Security System within 30 seconds after IGNITION switch is turned OFF.
 - HDI vehicles are configured for auto-arming. **This cannot be changed.**

- **Transport mode:** It is possible to arm the Security System without enabling the motion detector for one ignition cycle. This allows the vehicle to be moved in an immobilized state for transport.
- **Starter/ignition disable:** Should the security alarm and immobilization functions be triggered by a vehicle security condition, the starter, ignition or EFI system will be disabled.
- **Security System alarm:** The system will flash the turn signals and sound optional siren if a vehicle security condition is detected while the system is armed.

ARMING/DISARMING SECURITY SYSTEM

NOTES

There are two methods to arm the Security System:

- Using the key FOB.
- Using AUTO-ARMING.

NOTE:

*The vehicle **cannot** be armed with the engine running or the ignition ON.*

There are two ways to disarm the system:

- Using the key FOB.
- Using the personal code.

NOTE:

When storage mode is active, the key FOB is not recognized until ignition switch is ON.

All models except EFI Softails

If the ignition switch is turned ON with the Security System in the armed state, the alarm will be activated.

The alarm must be turned OFF AND the ignition switch cycled OFF-ON, or vehicle will NOT start.

USING KEY FOB

Environmental and geographic conditions may affect signal range.

Arming The System

- Hold down the key FOB button until the system responds with two turn signal flashes and two “chirps” from optional siren.

NOTE:

Siren will “chirp” three times if siren battery is low.

Disarming The System

- Quickly press the key FOB button twice. The system will respond with one turn signal flash.

IMPORTANT NOTE:

Disarming function may require practice. The key FOB button **must** be pressed twice within 1.5 seconds to send the disarm command. The action is very similar to double-clicking a computer mouse.

Troubleshooting

If the key FOB button has been pressed numerous times while away from the vehicle, the key FOB may fall out of synchronization with the Security System. If this happens, the Security System might fail to recognize the key FOB’s commands.

To solve this problem, press and hold the key FOB button for 10-15 seconds until the Security System responds with two turn signal flashes. After confirmation, you may resume normal key FOB operation.

DISARMING THE SECURITY SYSTEM USING THE PERSONAL CODE

See Table S-1. The personal code consists of five digits entered using the left and right turn signal switches. Each digit can be any number from 1-9. The personal code is intended to be used to disarm the vehicle in case the key FOB is not functioning.

Record your personal code on the card(s) provided in the rear of the Owner's Manual. Carry one for reference in your wallet when riding.

See PERSONAL ENTRY CODE Section to set a personal code.

NOTE:

*If you make an error while disarming the Security System using the personal code, the alarm will activate for 30 seconds after the last digit is entered. After a failed attempt, the security lamp will flash **once every second for 10 minutes**. During this time, the vehicle will not accept any attempt to enter a personal code.*

NOTE:

*In Table S-1, **a b c d e** is an example of a personal code.*

Table S-1. Entering A Personal Code To Disarm Security System

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
NOTE: The left turn signal switch is used for code number entry and the right turn signal is used as the "enter" key.			
1	Turn IGN key to ACC		
2	Hold both turn switches in until confirmation	Security lamp blinks at fast rate	System is ready for personal code entry
3	Enter first digit of code (a) by pressing left turn switch a times		

Table S-1. Entering A Personal Code To Disarm Security System

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
4	Press right turn switch 1 time		Serves as “enter” key for first digit
5	Enter second digit of code (b) by pressing left turn switch b time		
6	Press right turn switch 1 time		Serves as “enter” key for second digit
7	Enter third digit of code (c) by pressing left turn switch c times		
8	Press right turn switch 1 time		Serves as “enter” key for third digit
9	Enter fourth digit of code (d) by pressing left turn switch d time		
10	Press right turn switch 1 time		Serves as “enter” key for fourth digit
11	Enter fifth digit of code (e) by pressing left turn switch e times		
12	Press right turn switch 1 time	Security lamp stops blinking	System is disarmed. You may use the vehicle or program another key FOB

TRANSPORT MODE

NOTES

The transport mode is used for moving the vehicle or transporting on a trailer with the Security System armed and without tripping the alarm. When the vehicle is in the transport mode, the Security System **does not respond to motion detection**.

- To exit the transport mode, use the key FOB or disarm the vehicle. See Table S-2. to enter the transport mode.

Disabling Security System

- Disarm the Security System using the key FOB or personal code. At this point, the Security fuse may be removed or battery disconnected.

NOTE:

Transport mode is especially useful when working on HDI vehicles. If it is not used, the alarm will activate under many typical service activities.

Table S-2. Transport Mode

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
1	Turn IGN key ON		
2	Press and hold key FOB button until confirmation is received	3 flashes turn signals & indicators	
3	Turn IGN key OFF		
4	Press and hold key FOB button until confirmation is received	3 flashes turn signals & indicators	The vehicle can be moved without tripping the alarm

ALARM SENSITIVITY

The tamper warning has four sensitivity settings:

- Extremely low.
- Low.
- Medium.
- High.

The selection chosen controls the sensitivity of the Security System in regard to short disturbances of the vehicle (i.e. someone bumps into the vehicle).

See Table S-3. to set tamper alarm sensitivity.

BATTERY DISCONNECTS AND CONFIGURING

After reconnecting a battery, the Security System will not enter the configuration mode on the first attempt. Therefore, after all battery reconnects, the configuration sequence must be modified as follows.

1. Set run switch to **OFF**, cycle ignition key **ON-OFF-ON-OFF-ON** and press left turn signal switch **twice**.
Wait for one to three confirmation flashes of the turn signals and then set ignition key switch to **OFF**.
2. Repeat step listed above.
3. Continue with configuration sequence listed.

Table S-3. Tamper Alarm Sensitivity Adjustment

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
1	Turn IGN key ON-OFF-ON-OFF-ON		
2	Press left turn switch 2 times and release	2 or 3 flashes turn signals & indicators depending on vehicle configuration (See BATTERY DISCONNECTS AND CONFIGURING Section)	2 flashes - North American/ Domestic configuration Security System 3 flashes - European/HDI configuration Security System
3	Press and hold key FOB button until confirmation is received	1 flash turn signals & indicators	
4	Press left turn switch 1 time and release	Turn signals & indicators flash to indicate option selected	1 flash - extremely low 2 flashes - lows sensitivity 3 flashes - medium sensitivity 4 flashes - high sensitivity
5	Press and release left turn switch to advance through options	Turn signals & indicators flash to indicate option selected	1 flash - extremely low 2 flashes - low sensitivity 3 flashes - medium sensitivity 4 flashes - high sensitivity
6	Turn IGN key OFF		

AUTO-ARMING CONFIGURATION

Auto-arming causes the Security System to automatically arm itself (without the use of the key FOB) within 30 seconds after the ignition key is turned OFF. During this period, the security lamp stays on solid to indicate Auto-arming is starting up.

The vehicle may be moved during these 30 seconds without triggering the alarm. However, any motion after that period will trigger the security alarm. Upon expiration of the auto-arming period, the turn signals flash twice, the security lamp begins to flash and the siren (if installed) chirps twice.

See Table S-4. to set the Auto-arming selection. The Security System allows remote arming via the key FOB at anytime. However, if the system is remotely disarmed (with the key FOB) but the ignition key is not turned ON within 30 seconds, the system will rearm itself when Auto-arming is enabled.

NOTE:

Auto-arming configuration cannot be altered on HDI vehicles.

BATTERY DISCONNECTS AND CONFIGURING

After reconnecting a battery, the Security System will not enter the configuration mode on the first attempt. Therefore, after all battery reconnects, the configuration sequence must be modified as follows.

1. Set run switch to **OFF**, cycle ignition key **ON-OFF-ON-OFF-ON** and press left turn signal switch **twice**.
Wait for one to three confirmation flashes of the turn signals and then set ignition key switch to **OFF**.
2. Repeat step listed above.
3. Continue with configuration sequence listed.

Table S-4. Auto-arming Configuration (Not Available on HDI Vehicles)

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
1	Turn IGN key ON-OFF-ON-OFF-ON		
2	Press left turn switch 2 times and release	2 or 3 flashes turn signals & indicators depending on vehicle configuration (See BATTERY DISCONNECTS AND CONFIGURING Section)	2 flashes - North American/ Domestic configuration Security System 3 flashes - European/HDI configuration Security System
3	Press and hold key FOB button until confirmation is received	1 flash turn signals & indicators	
4	Press and hold key FOB button until confirmation is received	2 flashes turn signals & indicators	
5	Press left turn switch 1 time and release	Turn signals & indicators flash to indicate option selected	1 flash - auto-arming disabled 2 flashes - auto-arming enabled
6	Press and release left turn switch to advance through options	Turn signals & indicators flash to indicate option selected	
7	Turn IGN key OFF		

STORAGE MODE CONFIGURATION

The Security System has a special mode for long term storage. This mode prevents the Security System from discharging the battery after a period of days (30, 60, 90 or infinite) without any ignition key switch activity.

- If the Security System is set to infinite, the system will not go into storage mode. In this case, the customer must use a trickle charger to keep the battery from discharging after 60 days of storage.
- Vehicles will enter storage mode whether the Security System is armed or disarmed.

In storage mode, all alarm functions are suspended and the receiver is shut down and will not respond to the key FOB. The vehicle is immobilized because the starter motor and Ignition/EFI controllers are disabled. When the storage mode is entered, the security lamp stops flashing to conserve power.

To wake up the Security System from storage mode, the ignition key must be turned ON. This will trigger the alarm if the system was previously armed. You must use the key FOB or personal code to disarm the system and stop the alarm.

If the ignition key is switched **OFF-ON-OFF** quickly, then the Security System will wake-up without activating the alarm.

See Table S-5. to set the storage mode preferences.

BATTERY DISCONNECTS AND CONFIGURING

After reconnecting a battery, the Security System will not enter the configuration mode on the first attempt. Therefore, after all battery reconnects, the configuration sequence must be modified as follows.

1. Set run switch to **OFF**, cycle ignition key **ON-OFF-ON-OFF-ON** and press left turn signal switch **twice**.
Wait for one to three confirmation flashes of the turn signals and then set ignition key switch to **OFF**.
2. Repeat step listed above.
3. Continue with configuration sequence listed.

Table S-5. Storage Mode Configuration

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
1	Turn IGN key ON-OFF-ON-OFF-ON		
2	Press left turn switch 2 times and release	2 or 3 flashes turn signals & indicators depending on vehicle configuration (See BATTERY DISCONNECTS AND CONFIGURING Section)	2 flashes - North American/ Domestic configuration Security System 3 flashes - European/HDI configuration Security System
3	Press and hold key FOB button until confirmation is received	1 flash turn signals & indicators	
4	Release and then hold key FOB button until confirmation is received	2 flashes turn signals & indicators	
5	Release and then hold key FOB button until confirmation is received	3 flashes turn signals & indicators	
6	Press left turn switch 1 time and release	Turn signals & indicators flash to indicate option selected	1 flash - 30 days 2 flashes - 60 days 3 flashes - 90 days 4 flashes - Infinite
7	Press left turn switch to advance through options	Turn signals & indicators flash to indicate option selected	1 flash - 30 days 2 flashes - 60 days 3 flashes - 90 days 4 flashes - Infinite
8	Turn IGN key OFF		

PERSONAL ENTRY CODE

First Time Code Entry

IMPORTANT NOTE:

Do not forget to enter a personal code for Security System vehicles. If a code is not assigned and the key FOB is lost or damaged while the vehicle is armed, the Security System Module must be replaced.

The Security System personal code consists of five digits. Each digit can be any number from 1-9. The personal code **must** be used to disarm the Security System in case the key FOB becomes unavailable.

See Table S-6. to set a personal code on a motorcycle with no code previously installed. The procedure listed uses 3-1-3-1-3 as the sample personal code.

NOTE:

For better security, do not use 3-1-3-1-3 as a personal code. It is shown as an example only.

Decide what five digit code the owner would like to use. The code will be programmed using the turn signal switches and key FOB. Record your personal code on the card(s) provided in the rear of the Owner's Manual. Carry one for reference in your wallet when riding.

- When programming the personal code, the security lamp flashes to provide feedback when entering each digit.
- The number of security lamp flashes corresponds to the number currently selected for a given digit. Therefore, the lamp may flash 1-9 times depending on the number entered.
- Press the left turn switch one time to increment each digit of the code.
- Quickly press the key FOB button twice to advance to the next digit of the code.

NOTE:

The programming mode exits upon turning the key switch to OFF or if no turn signal switch/key FOB button activity occurs for 60 seconds. No data is saved for partial configuration attempts.

Modifying Existing Codes

If a code was previously entered, the lamp will flash the equivalent digit. Each additional press of the left turn switch will increment the digit.

- To advance from 5 to 6, press and release the left turn switch 1 time.
- To advance from 8 to 2, press and release the left turn switch 3 times (9-1-2).

Table S-6. Programming A Personal Code

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
NOTE: For better security, do not use 3-1-3-1-3 as a personal code. It is shown as an <u>example only</u> .			
1	Set RUN/OFF switch to OFF		Verify that security lamp is not blinking (vehicle is disarmed)
2	Turn IGN key ON-OFF-ON-OFF-ON		

Table S-6. Programming A Personal Code

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
3	Press left turn switch 2 times and release	1 - 3 flashes turn signals & indicators depending on vehicle configuration (See BATTERY DISCONNECTS AND CONFIGURING Section)	1 flash - Worldwide TSM, no security 2 flashes - North American/ Domestic configuration Security System 3 flashes - European/HDI configuration Security System
4	Quickly press key FOB button 2 times and release	1 flash turn signals & indicators	Vehicle is in personal code entry mode
5	Press left turn switch 1 time and release	None if no code entered	A lack of confirmation flashes indicates no digit is entered
		1 - 9 flashes if code previously entered	
6	In this example, you will press and release three times If code previously entered, count flashes for number and then press and release left turn switch to advance through the digits	Security lamp flashes to indicate each digit selected In this example, the lamp will flash 3 times	You've selected 3 as a number for the first digit
7	Quickly press key FOB button 2 times and release	2 flashes turn signals & indicators	You've confirmed 3 as a number for the first digit and have advanced to entering the second digit

Table S-6. Programming A Personal Code

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
8	Press left turn switch 1 time and release	None if no code entered	A lack of confirmation flashes indicates no digit is entered
		1 - 9 flashes if code previously entered	
9	In this example, you will perform this step one time If code previously entered, count flashes for number and then press and release left turn switch to advance through the digits	Security lamp flashes to indicate each digit selected In this example, the lamp will flash 1 time	You've selected 1 as a number for the second digit
10	Quickly press key FOB button 2 times and release	3 flashes turn signals & indicators	You've confirmed 1 as a number for the second digit and have advanced to entering the third digit
11	Press left turn switch 1 time and release	None if no code entered	A lack of confirmation flashes indicates no digit is entered
		1 - 9 flashes if code previously entered	
12	In this example, you will repeat this step three times If code previously entered, count flashes for number and then press and release left turn switch to advance through the digits	Security lamp flashes to indicate each digit selected In this example, the lamp will flash 3 times	You've selected 3 as a number for the third digit

Table S-6. Programming A Personal Code

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
13	Quickly press key FOB button 2 times and release	4 flashes turn signals & indicators	You've confirmed 3 as a number for the third digit and have advanced to entering the fourth digit
14	Press left turn switch 1 time and release	None if no code entered	A lack of confirmation flashes indicates no digit is entered
		1 - 9 flashes if code previously entered	
15	In this example, you will perform this step one time If code previously entered, count flashes for number and then press and release left turn switch to advance through the digits	Security lamp flashes to indicate each digit selected In this example, the lamp will flash 1 time	You've selected 1 as a number for the fourth digit
16	Quickly press key FOB button 2 times and release	5 flashes turn signals & indicators	You've confirmed 1 as a number for the fourth digit and have advanced to entering the fifth digit
17	Press left turn switch 1 time and release	None if no code entered	A lack of confirmation flashes indicates no digit is entered
		1 - 9 flashes if code previously entered	

Table S-6. Programming A Personal Code

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
18	In this example, you will repeat this step three times If code previously entered, count flashes for number and then press and release left turn switch to advance through the digits	Security lamp flashes to indicate each digit selected In this example, the lamp will flash 3 times	You've selected 3 as a number for the fifth digit
19	Quickly press key FOB button 2 times and release	1 flashes turn signals & indicators	You've confirmed 3 as a number for the fifth digit and have gone back to the first digit
20	Turn IGN key OFF		
21	Write down code in owner's manual		
22	Arm the Security System and attempt to disarm using personal code entry.		

KEY FOB ASSIGNMENT

See Table S-7. The key FOB on Security System motorcycles must be set so it will operate the alarm system on the vehicle. This assignment **must** be completed with no pauses **greater than 10 seconds** between steps. Turn the ignition OFF after all key FOB's have been assigned. The programming mode will also exit after 60 seconds has elapsed without detecting any key FOB signup messages or turn signal activity.

Two key FOB's may be assigned to the Security System. The first successful attempt to program a key FOB will disable all previously assigned key FOB's. If a second key FOB is to be programmed, it must be done in the same programming sequence as the initial key FOB.

See Table S-7. to assign a key FOB to a motorcycle.

BATTERY DISCONNECTS AND CONFIGURING

After reconnecting a battery, the Security System will not enter the configuration mode on the first attempt. Therefore, after all battery reconnects, the configuration sequence must be modified as follows.

1. Set run switch to **OFF**, cycle ignition key **ON-OFF-ON-OFF-ON** and press left turn signal switch **twice**.
Wait for one to three confirmation flashes of the turn signals and then set ignition key switch to **OFF**.
2. Repeat step listed above.
3. Continue with configuration sequence listed.

Table S-7. Key FOB Assignment

STEP NO.	ACTION	WAIT FOR CONFIRMATION	NOTES
1	Turn IGN key ON-OFF-ON-OFF-ON		
2	Press left turn switch 2 times and release	2 - 3 flashes turn signals & indicators depending on vehicle configuration (See BATTERY DISCONNECTS AND CONFIGURING Section)	2 flashes - North American/ Domestic configuration Security System 3 flashes - European/HDI configuration Security System
3	Press right turn switch 1 time and release	1 flash turn signals & indicators	
4	Press left turn switch 1 time and release	2 flashes turn signals & indicators	
5	Press and hold key FOB button until confirmation is received	2 flashes turn signals & indicators	This may take 10 - 25 seconds
6	If you have two key FOB's, press and hold button on second key FOB until confirmation is received	2 flashes turn signals & indicators	Optional step
7	Turn IGN key OFF		

KEY FOB BATTERY REPLACEMENT

Replace the key FOB battery every 2 years.

1. Place a thin blade between the 2 halves of the key FOB case and slowly turn to open.
2. See Figure S-4. Remove the old battery and **discard**.

IMPORTANT NOTE:

Dispose of old battery in accordance with local regulations.

3. Install a **new** battery with the positive (+) side down, such as a Panasonic® 2032 or equivalent.
4. Verify the button rubber is fully seated.
5. Close the case by aligning the two halves and snap together.
6. While standing next to the motorcycle, press and hold the key FOB button for 10-15 seconds until the Security System responds with two turn signal flashes/siren chirps.



Figure S-3. Key FOB Open Case (Front)

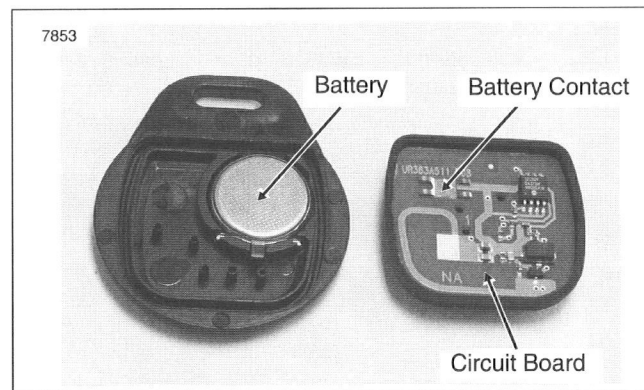


Figure S-4. Key FOB Open Case (Rear)

SIREN DIAGNOSTICS

- See Figure S-5. If the siren is armed and the internal siren battery is dead, shorted, disconnected, or has been charging for a period longer than 24 hours, the siren will respond with three “chirps” on arming instead of two.
- The internal siren battery may not charge if the vehicle’s battery is less than 12.5 volts.
- If the siren does not “chirp”, two or three times, on a valid arming command from the Security System, the siren is either not connected, not working, or the siren wiring was opened or shorted while the siren was disarmed.
- If the siren enters the self-driven mode where it is powered from the siren internal 9 volt battery, the turn signal lamps may or may not alternately flash. If the Security System activates the siren, the turn signal lamps will alternately flash. If the siren has been armed and a security event occurs, and the siren is in self-driven mode, the siren will alarm for 20 to 30 seconds and then turn off for 5 to 10 seconds. This alarm cycle will be repeated ten times if the siren is in the self-driven mode.

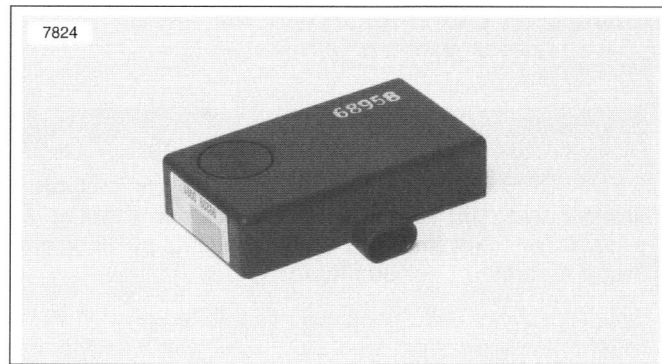


Figure S-5. Siren

SIDECAR CONFIGURATION (SECURITY SYSTEM)

NOTES

WARNING

ONLY FLT Harley-Davidson Motorcycles are suitable for sidecar use. Consult your Harley-Davidson Dealer. Use of vehicles other than FLT models for this purpose could result in death or serious injury.

On motorcycles with a sidecar, the TSM/Security System **must** be switched from the factory solo vehicle setting to the sidecar setting. Consult your SIDECAR SERVICE MANUAL (Part No. **99485-01**) for complete details.

If a sidecar is removed from the motorcycle, the TSM/Security System **must** be reconfigured. Consult your SIDECAR SERVICE MANUAL (Part No. **99485-01**) for complete details.

SECURITY STATUS LAMP

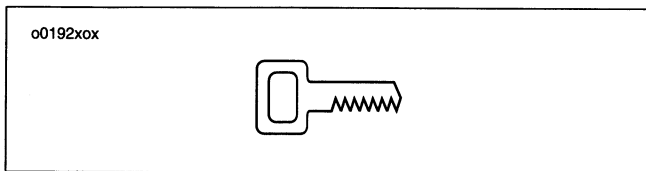


Figure S-6. Security Status Lamp

Table S-8. Security Lamp Status

SECURITY STATUS LAMP	MODE
Does not flash.	No security system (TSM), security system not armed or storage mode active.
Flashes every second.	10 minute time-out after failed personal code entry attempt.
Flashes every 2 seconds.	Security System armed.
Flashes 3 times a second.	Personal code entry mode.
Stays ON solid with ignition key OFF	Auto-arming is started up. You have 30 seconds before system armed.
Stays ON solid with ignition key ON	If solid for more than 8 seconds after key is ON, a current trouble code is present

NOTES

WARRANTY AND MAINTENANCE

See MAINTENANCE RECORDS section. This Owner's Manual contains your new motorcycle warranty and a number of tear-out service coupons.

Each coupon is a scheduled mileage interval that contains a specific maintenance checklist for upkeep of your motorcycle. It is the owner's responsibility to follow the scheduled mileage intervals as specified; all of the specified maintenance services must be performed to keep your warranty valid.

1. Make an appointment with your Harley-Davidson Dealer for inspection and service just before you have ridden 1000 miles (1600 km).
2. Bring this Owner's Manual with you when you visit your dealer to have your motorcycle inspected and serviced.
3. Have the owner record stubs dated and signed for required proof of service during the warranty period.

The dealer records should be retained by the dealer and owner, as proof of proper maintenance.

4. Keep receipts covering any parts, service or maintenance performed.

These records should be transferred to each subsequent owner.

WARNING

Harley-Davidson cautions you against the use of non-standard parts such as after-market and custom made extended front forks which may adversely affect performance and handling. The use of any non-standard parts including mufflers may void your warranty according to terms of the warranty. Removing or altering factory installed standard parts may adversely affect performance which could result in death or serious injury.

Harley-Davidson Dealerships are independently owned and operated and may sell parts and accessories that are not manufactured or approved by Harley-Davidson®. Therefore, you should understand that we are not and cannot be responsible for the quality, suitability, or safety of any non-Harley-Davidson part, accessory or design modification, including labor, which may be sold and/or installed by our dealers.

OWNER'S IDENTIFICATION CARD

See Figure 51. A permanent Owner's Identification Card is issued to each Harley-Davidson new motorcycle owner when the completed warranty registration form is received at Harley-Davidson Motor Company.

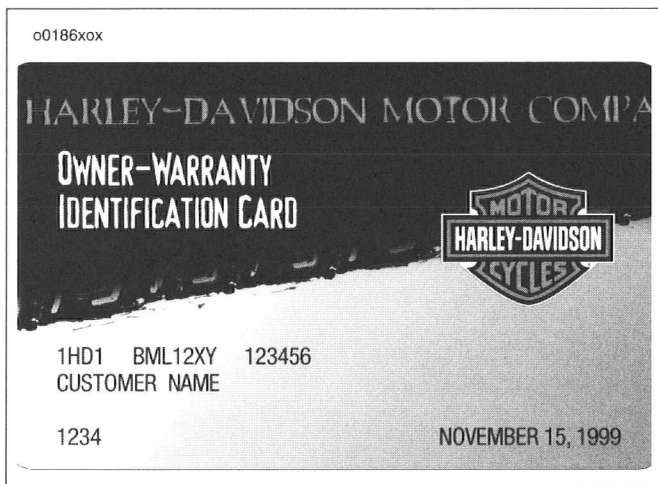


Figure 51. Owner's Warranty Identification Card

The Owner's Identification Card is a permanent record showing proof of ownership. It gives information necessary for you and your dealer to find information when obtaining parts and accessories, while expediting service.

- Keep this card in your possession; it is required by your Harley-Davidson Dealer for any warranty service performed on your motorcycle.
- If you have questions regarding service or warranty, we recommend that you contact your Harley-Davidson Dealer for service.

KEEPING IT ALL HARLEY

1. Keep your Harley-Davidson completely Harley-Davidson.
2. Insist that your dealer uses only Genuine® replacement parts to keep your Harley-Davidson motorcycle and its warranty intact.

Exact design and stringent testing ensure performance and warranty coverage. Again, insist on Genuine® replacement parts for your Harley-Davidson motorcycle.

NOTE:

Installing off-road or competition parts to enhance performance may void your new motorcycle warranty. See your Harley-Davidson Dealer for details.

CAUTION

It is possible to overload your motorcycle's charging system by adding too many electrical accessories. If your combined electrical accessories consume more electrical current than your vehicle's charging system can produce, the electrical consumption can discharge the battery and cause vehicle electrical system damage. See your dealer for advice about the amount of current consumed by additional electrical accessories, or for necessary wiring changes.

IMPORTANT MOVING INFORMATION

If you move from your present address, or sell your motorcycle, please fill out and mail the post card at the back of this manual. This is necessary in the event that the Company needs to contact the owner concerning information that could affect the safe operation of this motorcycle.

CALIFORNIA EVAPORATIVE EMISSION CONTROL

All new model year 2001 Harley-Davidson motorcycles sold in the state of California are equipped with an evaporative emission control system. This system is designed to meet the CARB regulations in effect at the time of manufacture.

The system requires a small amount of maintenance. Periodic inspection is required to make sure hoses are properly routed, not kinked or blocked, and that all fittings are secure. Mounting hardware should also be checked periodically for tightness.

EPA NOISE REGULATIONS

EPA noise regulations require that the following statements be included in the Owner's Manual.

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED: Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW.

1. Replacing the muffler(s) and/or the entire exhaust system with parts not certified to be noise legal for street use.
2. Removing or modifying the muffler internal baffles in any way.
3. Replacing the air intake/cleaner assembly with one not certified to be noise legal for street use.
4. Modifying the air intake/cleaner assembly in such a way as to make the vehicle no longer noise legal for street use.

Harley-Davidson recommends that any and all noise related maintenance be done by an authorized Harley-Davidson Dealer using genuine Harley-Davidson parts.

WARRANTY/SERVICE INFORMATION

Any authorized Harley-Davidson Dealer is responsible for providing the warranty repair work on your motorcycle. If you have any questions regarding warranty obligations contact your selling dealer.

For normal service work or warranty work under the above conditions, you may obtain the name and location of your nearest U.S. Harley-Davidson Dealer by calling 1-800-490-9635 (toll free), in any state except Alaska and Hawaii.

NOTE:

The number shown above is accessible only with a touch-tone phone.

REPORTING SAFETY DEFECTS

Safety defects must be reported to the National Highway Traffic Safety Administration (NHTSA) and Harley-Davidson.

NHTSA STATEMENT

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Harley-Davidson.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Harley-Davidson.

To contact NHTSA, you may either:

- Call the Auto Safety Hot Line toll-free at 888-DASH-2DOT.

OR

- Write to: Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

OR

- Web Site: <http://www.NHTSA.dot.gov>

You can also obtain other information about motor vehicle safety from the hot line.

HARLEY-DAVIDSON LIMITED WARRANTY (12 MONTHS/UNLIMITED MILEAGE)

Harley-Davidson Warrants to the first retail purchaser and authorized transferees of our new 2001 model motorcycles/sidecars that any authorized Harley-Davidson Dealer will repair or replace without charge any parts (except tires, maintenance items and battery under certain conditions) found under normal use in the U.S.A. or Canada to be defective in factory materials or workmanship, and upon the following terms and conditions:

DURATION AND TRANSFER

1. The duration of this limited warranty is twelve months, measured from the date of initial retail purchase from an authorized Harley-Davidson Dealer.
2. Any unexpired portion of this limited warranty may be transferred, with written authorization, upon the resale of the motorcycle/sidecar during the warranty period. To obtain authorization, a transfer application must be filed with Harley-Davidson and the motorcycle/sidecar must pass inspection by one of our authorized Dealers. The customer is responsible for any charge incurred for work performed by the Dealer beyond the inspection procedure itself. (See your Harley-Davidson Owner's Manual for complete details.)

OWNER OBLIGATIONS

3. To qualify for warranty protection, you and the selling Dealer must complete the Warranty Registration Form and return it to us within 10 days after delivery. We will then send you an Owner-Warranty Identification Card.
4. To obtain warranty service, return your motorcycle/sidecar at your expense within the warranty period to any authorized Dealer. You must be able to present your Owner-Warranty Identification Card and/or Owner's Manual upon our Dealer's request. Our Dealer should be able to provide warranty service during normal business hours and as soon as possible,

depending upon the workload of the Dealer's service department and the availability of necessary parts.

EXCLUSIONS

This warranty will not apply to any motorcycle/sidecar as follows:

1. Which has not been operated or maintained as specified in the Owner's Manual.
2. Which has been abused, altered outside of original factory specifications, improperly stored or used "off the highway", for racing or competition of any kind.
3. Which has had the odometer removed or tampered with.

OTHER LIMITATIONS

This warranty does not cover:

1. Parts and labor for normal maintenance as recommended in the Owner's Manual, including such items as the following: lubrication, oil and filter change, fuel system cleaning, battery maintenance, engine tune-up, spark plugs, light bulbs, brake, clutch and chain/belt adjustment (including chain replacement).
2. Seats, saddlebags, paint, chrome, or trim deterioration caused by ordinary wear and tear, exposure or improper maintenance.

IMPORTANT/READ CAREFULLY

1. Our Dealers are independently owned and operated and may sell other products. Because of this, HARLEY-DAVIDSON IS NOT RESPONSIBLE FOR THE SAFETY, QUALITY, OR SUITABILITY OF ANY NON-HARLEY-DAVIDSON PART, ACCESSORY OR DESIGN MODIFICATION INCLUDING LABOR WHICH MAY BE SOLD AND/OR INSTALLED BY OUR DEALERS.
2. THERE IS NO OTHER EXPRESS WARRANTY (OTHER THAN EMISSIONS AND NOISE WARRANTIES) ON THE MOTORCYCLE. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THIS WARRANTY.
3. TO THE FULLEST EXTENT ALLOWED BY LAW, HARLEY-DAVIDSON AND ITS DEALERS SHALL NOT BE LIABLE FOR LOSS OF USE, INCONVENIENCE, LOST TIME, COMMERCIAL LOSS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES.
4. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Harley-Davidson Motor Company ■ P.O. Box 653 ■ Milwaukee, Wisconsin 53201, U.S.A.



P/N 99919-97

HARLEY-DAVIDSON MOTOR COMPANY®

LIMITED WARRANTY TRANSFER FORM

EFFECTIVE AS OF 8-1-97

VEHICLE IDENTIFICATION NUMBER**PURCHASER** (please print)

NAME: FIRST INITIAL LAST

ADDRESS

CITY STATE ZIP

THE WARRANTY EXPIRATION DATE IS 12 MONTHS FROM THE DATE OF THE FIRST RETAIL SALE TO THE ORIGINAL OWNER. NO WARRANTY TRANSFER WILL BE AUTHORIZED AFTER THE WARRANTY EXPIRATION DATE.

WARRANTY TRANSFER INSTRUCTIONS

To validate the warranty transfer, the following conditions must be complied with:

1. The prior owner must provide proof that required maintenance services have been performed in the event they have not, it is the responsibility of the customer to have the next scheduled maintenance service performed, or any other required work performed at his/her expense. The warranty transfer shall not be effective unless and until such required work is performed.
2. The vehicle must be inspected by an authorized Harley-Davidson dealer to determine its condition. If any of the conditions listed under Exclusions in the Limited Warranty exist, the warranty is NOT transferable.
3. The Limited Warranty Transfer Form must be completed and forwarded to Harley-Davidson Motor Company, by the authorized dealer, along with an individual check for each \$100.00 Transfer Fee, within 30 days of the date of sale (to the above referenced purchaser). A copy of the bill of sale must also accompany the transfer form indicating the date of purchase, from whom the vehicle was purchased, and the vehicle identification number. No warranty repairs will be covered until all the transfer information has been completely received and processed. Once this information has been received, the purchaser will be mailed an Owner-Warranty Identification Card.

Note: Transfers received after the 30-day transfer period will not be accepted.

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PURCHASER SIGNATURE

DATE _____

TRANSFERRING DEALER (please print)

DEALER NUMBER

NAME

ADDRESS

CITY STATE ZIP

REFERRING DEALER INSPECTION INFORMATION

DATE OF INSPECTION	VEHICLE MILEAGE AT TIME OF INSPECTION
_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____

Is vehicle visually stock? ☐ Y ☐ N

If vehicle is not visually stock, what is different? _____

NOTE: ATTACH THE \$100.00 TRANSFER FEE TO THIS FORM

HARLEY-DAVIDSON MOTOR COMPANY USE ONLY

TRANSFER
FEE RECEIVED

DEALER SIGNATURE _____

DATE _____

LIMITED WARRANTY TRANSFER FORM

Limited Warranty Transfer
Applications are available from
your Harley-Davidson Dealer

HARLEY-DAVIDSON EMISSION CONTROL SYSTEM WARRANTY

The following warranty applies to the emission control system and is in addition to the LIMITED WARRANTY, and NOISE CONTROL SYSTEM WARRANTY.

Harley-Davidson Motor Company warrants to the first owner and each subsequent owner that this vehicle is designed and built so as to conform at the time of sale with applicable regulations of the U.S. Federal Environmental Protection Agency at the time of manufacture and that it is free from defects in materials and workmanship which cause this motorcycle not to meet U.S. Environmental Protection Agency Standards within 5 years or 18,641 miles (30,000 kilometers) whichever occurs first.

The warranty period shall begin on the date the motorcycle is delivered to the first retail purchaser or, if the motorcycle is placed in service as a demonstrator or company vehicle prior to sale at retail, on the date it is first placed in service.

THE FOLLOWING ITEMS ARE NOT COVERED BY THE EMISSION CONTROL SYSTEM WARRANTY:

1. Failures which arise as a result of misuse, alterations, accident or non-performance of maintenance as specified in the Owner's Manual.
2. The replacement of parts (such as spark plugs, fuel and oil filters, etc.) used in required maintenance.
3. Loss of time, inconvenience, loss of motorcycle use or other consequential damages.
4. Any motorcycle on which the odometer mileage has been changed so that the mileage cannot be determined.

RECOMMENDATIONS FOR REQUIRED MAINTENANCE

IT IS RECOMMENDED THAT ANY EMISSION SYSTEM MAINTENANCE BE PERFORMED BY AN AUTHORIZED HARLEY-DAVIDSON DEALER USING GENUINE HARLEY-DAVIDSON REPLACEMENT PARTS. THE MAINTENANCE, REPLACEMENT OR REPAIR OF THE EMISSION CONTROL SYSTEM MAY BE PERFORMED BY ANY OTHER QUALIFIED SERVICE OUTLET OR INDIVIDUAL. NON-GENUINE PARTS MAY BE USED ONLY IF SUCH PARTS ARE CERTIFIED TO COMPLY WITH U.S. ENVIRONMENTAL PROTECTION AGENCY STANDARDS.

Harley-Davidson Motor Company, P.O. Box 653 Milwaukee, Wisconsin 53201, U.S.A.

HARLEY-DAVIDSON NOISE CONTROL SYSTEM WARRANTY

The following warranty applies to the noise control system and is in addition to the LIMITED WARRANTY, and EMISSION CONTROL SYSTEM WARRANTY.

Harley-Davidson Motor Company warrants to the first owner and each subsequent owner that this vehicle is designed and built so as to conform at the time of sale with applicable regulations of the U.S. Environmental Protection Agency (as tested following F-76 Drive-By test procedure) at the time of manufacture and that it is free from defects in materials and workmanship which cause this motorcycle not to meet U.S. Environmental Protection Agency Standards within 1 year or 3,730 miles (6,000 kilometers) whichever occurs first.

The warranty period shall begin on the date the motorcycle is delivered to the first retail purchaser or, if the motorcycle is placed in service as a demonstrator or company vehicle prior to sale at retail, on the date it is first placed in service.

THE FOLLOWING ITEMS ARE NOT COVERED BY THE NOISE CONTROL SYSTEM WARRANTY:

1. Failures which arise as a result of misuse, alterations, or accident as specified in the Owner's Manual.
2. Replacing, removing, or modifying any portion of the NOISE CONTROL SYSTEM (consisting of the exhaust system and air intake/cleaner assembly) with parts not certified to be noise legal for street use.
3. Loss of time, inconvenience, loss of motorcycle use or other consequential damages.
4. Any motorcycle on which the odometer mileage has been changed so that the mileage cannot be determined.

RECOMMENDATIONS FOR REQUIRED MAINTENANCE

IT IS RECOMMENDED THAT ANY NOISE SYSTEM MAINTENANCE BE PERFORMED BY AN AUTHORIZED HARLEY-DAVIDSON DEALER USING GENUINE HARLEY-DAVIDSON REPLACEMENT PARTS. THE MAINTENANCE, REPLACEMENT OR REPAIR OF THE NOISE CONTROL SYSTEM MAY BE PERFORMED BY ANY OTHER QUALIFIED SERVICE OUTLET OR INDIVIDUAL. NON-GENUINE PARTS MAY BE USED ONLY IF SUCH PARTS ARE CERTIFIED TO COMPLY WITH U.S. ENVIRONMENTAL PROTECTION AGENCY STANDARDS.

Harley-Davidson Motor Company, P.O. Box 653 Milwaukee, Wisconsin 53201, U.S.A.

NOTES

REGULAR SERVICE INTERVALS

Regular lubrication and maintenance will help keep your new Harley-Davidson operating at peak performance. Your Harley-Davidson Dealer knows best how to service your motorcycle with factory approved methods and equipment assuring you of thorough and competent workmanship.

NOTE:

See MAINTENANCE RECORDS. Regular maintenance interval operations are required to keep your new motorcycle warranty in force. The use of other than Harley-Davidson approved parts and service procedures may void the warranty. Any alterations to the emission system components, such as the carburetor and exhaust system, may be in violation of Federal and State laws.

WARNING

Follow regular maintenance intervals. The regular maintenance intervals given in this manual are intended to be used as guidelines for service. Failure to follow regular maintenance intervals could result in death or serious injury.

WARNING

Use care under adverse conditions (severe cold, extreme heat, very dusty environment, very bad roads, through standing water, etc.). If you operate your motorcycle under adverse conditions, you should perform the regular maintenance intervals more frequently to ensure the safe operation of your motorcycle. Failure to maintain your motorcycle could result in death or serious injury.

Table 15. Regular Service Intervals (For ALL Dyna, Softail, Sportster, & Touring Models)

ODOMETER READING SERVICE OPERATIONS (see chart code below)	1 0 0 0 mi	2 5 0 0 mi	5 0 0 0 mi	7 5 0 0 mi	1 0 0 0 mi	1 2 5 0 mi	1 5 0 0 mi	1 7 5 0 mi	2 0 0 0 mi	2 2 5 0 mi	2 5 0 0 mi	2 7 5 0 mi	3 0 0 0 mi	3 2 5 0 mi	3 5 0 0 mi	3 7 5 0 mi	4 0 0 0 mi	4 2 5 0 mi	4 5 0 0 mi	4 7 5 0 mi	5 0 0 0 mi
	1 6 0 0 km	4 0 0 0 km	8 0 0 0 km	1 2 0 0 km	1 6 0 0 km	2 0 0 0 km	2 4 0 0 km	2 8 0 0 km	3 2 0 0 km	3 6 0 0 km	4 0 0 0 km	4 4 0 0 km	4 8 0 0 km	5 2 0 0 km	5 6 0 0 km	6 0 0 0 km	6 4 0 0 km	6 8 0 0 km	7 2 0 0 km	7 6 0 0 km	8 0 0 0 km
Change engine oil and filter	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R
Inspect air cleaner, service as required	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Change primary chaincase lube and clean drain plug	RI		RI		RI		RI		RI		RI		RI		RI		RI		RI		RI
Check and adjust rear belt	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Clutch adjustment	I		I		I		I		I		I		I		I		I		I		I
Change transmission lubricant and clean drain plug	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R
Inspect brake pad linings and discs for wear	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Check brake fluid reservoir levels and condition	I		I		I		I		I		I		I		I		I		I		I
Inspect oil lines and brake system for leaks	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Lubricate front brake hand lever, throttle control cables, clutch control cables (and hand lever), rear brake pedal bushing (if applicable), and jiffy stand.	L		L		L		L		L		L		L		L		L		L		L
Steering head bearings																					
Dyna models	A				A				A				D				A				A
FLT models	A		L		AL		L		AL		L		AL		L		AL		L		D
Softail models	A		L		AL		L		AL		L		D		L		AL		L		AL
Sportster models	A		L		AL		L		AL		L		D		L		AL		L		AL
Springer models	AL	AL	AL	AL	AL	AL	AL	AL	D	AL	AL	AL	AL	AL	AL	AL	D	AL	AL	AL	AL
Check, adjust operation of enrichener, throttle control	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Inspect fuel valve, lines and fittings for leaks	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Clean fuel tank filter screen									X							X					
Check operation of all electrical equipment & switches	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Check cruise control disengage switch & components	I		I		I		I		I		I		I		I		I		I		I

Table 15. Regular Service Intervals (For ALL Dyna, Softail, Sportster, & Touring Models)

ODOMETER READING SERVICE OPERATIONS (see chart code below)	1 0 0 0 mi	2 5 0 0 mi	5 0 0 0 mi	7 5 0 0 mi	1 0 0 0 mi	1 2 5 0 mi	1 5 0 0 mi	1 7 5 0 mi	2 0 0 0 mi	2 2 5 0 mi	2 5 0 0 mi	2 7 5 0 mi	3 0 0 0 mi	3 2 5 0 mi	3 5 0 0 mi	3 7 5 0 mi	4 0 0 0 mi	4 2 5 0 mi	4 5 0 0 mi	4 7 5 0 mi	5 0 0 0 mi
	1 6 0 0 0 km	4 0 0 0 0 km	8 0 0 0 0 km	1 2 0 0 0 km	1 6 0 0 0 km	2 0 0 0 0 km	2 4 0 0 0 km	2 8 0 0 0 km	3 2 0 0 0 km	3 6 0 0 0 km	4 0 0 0 0 km	4 4 0 0 0 km	4 8 0 0 0 km	5 2 0 0 0 km	5 6 0 0 0 km	6 0 0 0 0 km	6 4 0 0 0 km	6 8 0 0 0 km	7 2 0 0 0 km	7 6 0 0 0 km	8 0 0 0 0 km
	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi	mi
Check battery and clean connections	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Change spark plugs	I		I		R		I		R		I		R		I		R		I		R
Check tire pressure and inspect tread	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Check wheel spoke tightness			I		I		I		I		I		I		I		I		I		I
Change front fork oil									X								X				
Repack rear fork bearings (if applicable)									X								X				
Adjust springer rocker bearings	X				X				X				X				X				X
Check air suspension - pressure, operation & leakage	I		I		I		I		I		I		I		I		I		I		I
Check stabilizer links and engine mounts					I				I				I				I				I
Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners	T				T				T				T				T				T
Inspect windshield bushings					I				I				I				I				I
Lubricate hinges, latches - fuel door, tour-pak, saddlebags	L		L		L		L		L		L		L		L		L		L		L
Check ignition timing (XL only)			I		I		I		I		I		I		I		I		I		I
Check engine idle speed	I		I		I		I		I		I		I		I		I		I		I
Road test	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chart Codes: I - Inspect, & if necessary correct, clean or replace. L - Lubricate with specified lubricant.																					
R - Replace or change. T - Tighten to proper torque.																					
A - Adjust. X - Perform.																					
D - Disassemble (Lube & Inspect).																					

NOTES

FIRST SCHEDULED MAINTENANCE

Springer models (FLSTS and FXSTS), because of their unique design features, require first scheduled maintenance at 500 miles. All other Harley-Davidson models require First scheduled maintenance at 1000 miles (1600 km).

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

FIRST SCHEDULED MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

FIRST SCHEDULED MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean magnetic drain plug.
- ☐7. Check and adjust rear drive belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), and jiffy stand.
- ☐12. Check, adjust operation of enrichener*.
- ☐13. Inspect fuel lines and fittings for leaks.
- ☐14. Check tire pressure and inspect tread.
- ☐15. Check and clean battery connections.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check stabilizer links and engine mounts.
- ☐19. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐20. Check rear fork pivot nut tightness. See dealer.
- ☐21. Check engine idle speed adjustment.
- ☐22. Check front fork bearing adjustment. See dealer.
- ☐23. Road test.

* Carbureted Vehicle

FIRST SCHEDULED MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean magnetic drain plug.
- ☐7. Check and adjust rear drive belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), and jiffy stand.
- ☐12. Check, adjust operation of enrichener*.
- ☐13. Inspect fuel lines and fittings for leaks.
- ☐14. Check tire pressure and inspect tread.
- ☐15. Check and clean battery connections.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check stabilizer links and engine mounts.
- ☐19. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐20. Check rear fork pivot nut tightness. See dealer.
- ☐21. Check engine idle speed adjustment.
- ☐22. Check front fork bearing adjustment. See dealer.
- ☐23. Road test.

* Carbureted Vehicle

**2,500 MILE
(4,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**2,500 MILE
(4,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

2,500 MILE (4,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

2,500 MILE (4,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**5,000 MILE
(8,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**5,000 MILE
(8,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

5,000 MILE (8,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

5,000 MILE (8,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

**7,500 MILE
(12,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**7,500 MILE
(12,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

7,500 MILE (12,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enricher* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

7,500 MILE (12,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enricher* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**10,000 MILE
(16,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**10,000 MILE
(16,000 KM)**

MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

10,000 MILE (16,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

10,000 MILE (16,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

**12,500 MILE
(20,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**12,500 MILE
(20,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

12,500 MILE (20,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

12,500 MILE (20,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**15,000 MILE
(24,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**15,000 MILE
(24,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

15,000 MILE (24,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

15,000 MILE (24,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

**17,500 MILE
(28,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**17,500 MILE
(28,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

17,500 MILE (28,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

17,500 MILE (28,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**20,000 MILE
(32,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**20,000 MILE
(32000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

20,000 MILE (32,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Change front fork oil.
- ☐23. Adjust Springer rocker bearings.
- ☐24. Check stabilizer links and engine mounts.
- ☐25. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐26. Check ignition timing (XL only) and vacuum hose.
- ☐27. Road test.

* Carbureted Vehicle

20,000 MILE (32,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Change front fork oil.
- ☐23. Adjust Springer rocker bearings.
- ☐24. Check stabilizer links and engine mounts.
- ☐25. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐26. Check ignition timing (XL only) and vacuum hose.
- ☐27. Road test.

* Carbureted Vehicle

**22,500 MILE
(36,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**22,500 MILE
(36,000 KM)**

MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

22,500 MILE (36,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

22,500 MILE (36,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**25,000 MILE
(40,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**25,000 MILE
(40,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

25,000 MILE (40,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

25,000 MILE (40,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

**27,500 MILE
(44,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**27,500 MILE
(44,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

27,500 MILE (44,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

27,500 MILE (44,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**30,000 MILE
(48,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**30,000 MILE
(48,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

30,000 MILE (48,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

30,000 MILE (48,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

**32,500 MILE
(52,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**32,500 MILE
(52,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

32,500 MILE (52,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

32,500 MILE (52,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**35,000 MILE
(56,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**35,000 MILE
(56,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

35,000 MILE (56,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enricher*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

35,000 MILE (56,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enricher*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

**37,500 MILE
(60,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**37,500 MILE
(60,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

37,500 MILE (60,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

37,500 MILE (60,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**40,000 MILE
(64,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**40,000 MILE
(64,000 KM)**

MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

40,000 MILE (64,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Change front fork oil.
- ☐24. Check stabilizer links and engine mounts.
- ☐25. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐26. Check ignition timing (XL only) and vacuum hose.
- ☐27. Road test.

* Carbureted Vehicle

40,000 MILE (64,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Change front fork oil.
- ☐24. Check stabilizer links and engine mounts.
- ☐25. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐26. Check ignition timing (XL only) and vacuum hose.
- ☐27. Road test.

* Carbureted Vehicle

**42,500 MILE
(68,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**42,500 MILE
(68,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

42,500 MILE (68,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

42,500 MILE (68,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enrichener* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**45,000 MILE
(72,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**45,000 MILE
(72,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

45,000 MILE (72,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener*.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

45,000 MILE (72,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Check, adjust operation of enrichener.
- ☐14. Inspect fuel lines and fittings for leaks.
- ☐15. Check tire pressure and inspect tread.
- ☐16. Check wheel spoke tightness.
- ☐17. Check front fork bearing adjustment.
- ☐18. Check operation of all electrical equipment and switches.
- ☐19. Check cruise control disengage switch and other components.
- ☐20. Check and clean battery connections.
- ☐21. Inspect spark plugs.
- ☐22. Check ignition timing (XL only) and vacuum hose.
- ☐23. Check engine idle speed adjustment.
- ☐24. Road test.

* Carbureted Vehicle

**47,500 MILE
(76,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**47,500 MILE
(76,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

47,500 MILE (76,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enricher* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

47,500 MILE (76,000 KM) MAINTENANCE

- ☐1. Inspect engine oil.
- ☐2. Inspect rear belt.
- ☐3. Inspect transmission lubricant and clean magnetic drain plug.
- ☐4. Inspect brake pads and discs for wear.
- ☐5. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐6. Inspect tire pressure and inspect tread.
- ☐7. Inspect operation of throttle and enricher* controls.
- ☐8. Inspect operation of all electrical equipment and switches.
- ☐9. Inspect battery connections.
- ☐10. Inspect air cleaner and service as required.
- ☐11. Inspect oil lines and brake system for leaks.
- ☐12. Lubricate and adjust Springer steering head bearings.
- ☐13. Road test.

* Carbureted Vehicle

**50,000 MILE
(80,000 KM)
MAINTENANCE**

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

**50,000 MILE
(80,000 KM)
MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services listed on the back of this coupon. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

50,000 MILE (80,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

50,000 MILE (80,000 KM) MAINTENANCE

- ☐1. Change engine oil and oil filter.
- ☐2. Inspect air cleaner and service as required.
- ☐3. Change primary chaincase lubricant and clean magnetic drain plug.
- ☐4. Check/adjust primary chain.
- ☐5. Check clutch adjustment.
- ☐6. Change transmission lubricant and clean the magnetic drain plug.
- ☐7. Check and adjust belt.
- ☐8. Inspect brake pads and discs for wear.
- ☐9. Check brake fluid reservoir levels and condition.
- ☐10. Inspect oil lines and brake system for leaks.
- ☐11. Lubricate the following: front brake hand lever, throttle control cables, throttle, clutch control cable/hand lever, rear brake pedal bushing (if applicable), jiffy stand, hinges, latches, fuel door, Tour-Pak, and saddlebags.
- ☐12. Lubricate and adjust steering head bearings.
- ☐13. Check engine idle speed adjustment.
- ☐14. Check, adjust operation of enrichener*.
- ☐15. Inspect fuel valve*, fuel lines and fittings for leaks.
- ☐16. Check operation of all electrical equipment and switches.
- ☐17. Check cruise control disengage switch and other components.
- ☐18. Check and clean battery connections.
- ☐19. Change spark plugs.
- ☐20. Check tire pressure and inspect tread.
- ☐21. Check wheel spoke tightness.
- ☐22. Adjust Springer rocker bearings.
- ☐23. Check stabilizer links and engine mounts.
- ☐24. Check tightness of all critical fasteners: hand controls, brake system, axle nuts, front fork components, riser and handle bar fasteners.
- ☐25. Check ignition timing (XL only) and vacuum hose.
- ☐26. Road test.

* Carbureted Vehicle

SERVICE LITERATURE

For more detailed and complete technical and parts information, the following publications are available through your Harley-Davidson dealer. Order by part numbers below.

2001 Publication Part No.

Owner's Manuals

FLT Touring Models Owner's Manual99466-01

Dyna Models Owner's Manual.....99467-01

Sportster Models Owner's Manual99468-01

Softail Models Owner's Manual99469-01

Service Manuals

Dyna Models Service Manual.....99481-01

Softail Models Service Manual99482-01

FLT Touring Models Service Manual99483-01

Sportster Models Service Manual99484-01

Harley-Davidson Electrical Diagnostics Manual99495-01

Parts Catalogs

Dyna Models Parts Catalog.....99439-01

Sportster Models Parts Catalog99451-01

Softail Models Parts Catalog99455-01

FLT Touring Models Parts Catalog99456-01

Symbols

(C.V.) Carburetor Enrichener	53
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(NHTSA) National Highway Traffic Safety Administration	155
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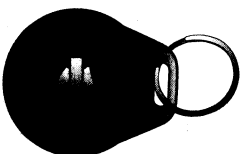
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Factory Security System**

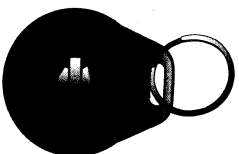


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**Harley-Davidson Motor Company
Service Communications
Milwaukee, WI 53201**

**Harley-Davidson®
Factory Security System**



06/00



**Harley-Davidson Motor Company
Service Communications
Milwaukee, WI 53201**

Security System Personal Code

- ex. a - b - c - d - e
- Set **RUN/STOP** switch to **STOP**
 - Turn **IGN** key to **ACC**
 - Hold **both** turn switches in until confirmation
 - Enter first digit of code (a) by pressing **left** turn switch (a) **times**
 - Press **right** turn switch **1 time**
 - Enter second digit of code (b) by pressing **left** turn switch (b) **times**
 - Press **right** turn switch **1 time**
 - Enter third digit of code (c) by pressing **left** turn switch (c) **times**
 - Press **right** turn switch **1 time**
 - Enter fourth digit of code (d) by pressing **left** turn switch (d) **times**
 - Press **right** turn switch **1 time**
 - Enter fifth digit of code (e) by pressing **left** turn switch (e) **times**
 - Press **right** turn switch **1 time**

Service/Transport Mode

- Set **RUN/STOP** switch to **STOP**
- Turn **IGN** key to **ON**
- Press and hold **key FOB** button until confirmation is received
- Turn **IGN** to **OFF**
- Press and hold **key FOB** button until confirmation is received

Security System Personal Code

- ex. a - b - c - d - e
- Set **RUN/STOP** switch to **STOP**
 - Turn **IGN** key to **ACC**
 - Hold **both** turn switches in until confirmation
 - Enter first digit of code (a) by pressing **left** turn switch (a) **times**
 - Press **right** turn switch **1 time**
 - Enter second digit of code (b) by pressing **left** turn switch (b) **times**
 - Press **right** turn switch **1 time**
 - Enter third digit of code (c) by pressing **left** turn switch (c) **times**
 - Press **right** turn switch **1 time**
 - Enter fourth digit of code (d) by pressing **left** turn switch (d) **times**
 - Press **right** turn switch **1 time**
 - Enter fifth digit of code (e) by pressing **left** turn switch (e) **times**
 - Press **right** turn switch **1 time**

Service/Transport Mode

- Set **RUN/STOP** switch to **STOP**
- Turn **IGN** key to **ON**
- Press and hold **key FOB** button until confirmation is received
- Turn **IGN** to **OFF**
- Press and hold **key FOB** button until confirmation is received

Important Information

If you move from your present address at any time after purchasing your new Harley-Davidson, or if you sell it to anyone, please fill out the attached card and mail immediately. This will provide us with an accurate registration as required by Federal law.

Thank You!

VEHICLE VIN _____ CRANKCASE NO. _____

OWNER'S NAME _____

OLD ADDRESS _____ APT. NO. _____

CITY _____ STATE _____ ZIP CODE _____

DEALER NUMBER _____ DATE OF DELIVERY _____
MO. DAY YEAR

DEALER'S NAME _____

CITY _____ STATE _____ ZIP CODE _____

MY NEW ADDRESS IS:

NEW ADDRESS _____ APT. NO. _____

CITY _____ STATE _____ ZIP CODE _____

MY MOTORCYCLE HAS BEEN SOLD TO: _____ DATE OF SALE _____
MO. DAY YEAR

NEW OWNER'S NAME _____

ADDRESS _____ APT. NO. _____

CITY _____ STATE _____ ZIP CODE _____



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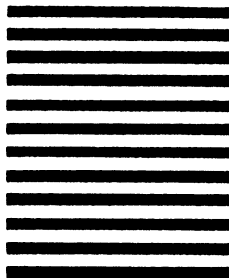
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PATENT NOTICE

Harley-Davidson products are manufactured under one or more of the following patents: 2986162, 2987934, 2998809, 3116089, 3144631, 3144860, 3226994, 3229792, 3434887, 3559773, 3673359, 3709317, Des. 225, 626

To the best knowledge of Harley-Davidson Motor Company, the material contained herein is accurate as of the date this publication was approved for printing. Harley-Davidson Motor Company, reserves the right to change specifications, equipment, or designs at any time without notice and without incurring obligation.

Harley-Davidson Motor Company



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