



Harley-Davidson Motor Co., Inc.

OWNER'S MANUAL FLT/FXR

1982

Part No. 99465-82



IMPORTANT NOTICE!

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

WARNING

Means there is the possibility of personal injury to yourself or others.

CAUTION

Means there is the possibility of damage to the vehicle.

Other information of particular importance has been placed in italic type.

We recommend you take special notice of these items.

YOUR OWNER'S MANUAL

Welcome to the Harley-Davidson Motorcycling Family! 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 Owner's Manual contains instructions for operation and maintenance. Minor repairs are covered in the Owners' Maintenance Guide and major repairs are covered in the Harley-Davidson Service Manual. Such major repairs require the attention of a skilled mechanic 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 Co., Inc.

TABLE OF CONTENTS

OPERATION

	Page No.
Safe Operating Rules	5
Rules of the Road	7
Accessories and Cargo	9
Pre-Riding Check List	10
Break-In — the First 500 Miles	11
Starting the Engine	11
Shifting Gears	12
Stopping the Engine	14
Operating Recommendations	15

IDENTIFICATION AND CONTROLS

Gasoline Supply Valve	21
Gasoline Filler Cap	22
Ignition-Light Key Switch	24
Headlamp Dimmer Switch and High Beam Indicator Light	26
Turn Signal Switches	26
Hazard Warning Flasher	27
Horn	27
Electric Starter	27
Engine Stop Switch	28
Throttle Control Grip	28
Choke	29
Clutch Hand Lever	29
Gear Shifter	30

Page No.

Brakes	30
Jiffy Stand	31
Trip Odometer	31
Oil Pressure Signal Light	31
Voltmeter	31
Rear Shock Absorber Spring Adjustment	32
Saddlebags	33
King Tour-Pak	34
Seat	35

MAINTENANCE AND LUBRICATION

Break-In Maintenance	37
Check at First 500 Miles	37
Check at First 1250 Miles	38
Regular Service Intervals	38
Storage	40
Engine Lubrication	41
Tappet Oil Filter Screen	43
Winter Lubrication	43
Transmission Lubrication	44
Chains	45
Chassis Lubrication	47
Spark Plugs	47

TABLE OF CONTENTS

	Page No.
Carburetor	48
Air Cleaner	48
Gasoline Strainer	49
Ignition Timing	49
Hydraulic Tappets	49
Clutch	50
Brakes	50
Wheels	50
Tires	51
Shock Absorbers	51
Front Fork Bearing Adjustment	51
Rear Fork Pivot Shaft	52
Headlamp	53
Battery	53
Alternator Charging Rate and Control Module	54
Circuit Breakers	54
Bulb Chart	55, 56

SPECIFICATIONS

Dimensions	57
------------------	----

	Page No.
Weight	57
Capacities	57
Engine	57
Ignition System	57
Transmission	58
Sprockets	58
Overall Gear Ratios	58
Tire Data	58
Gasoline	59
Serial Numbers	60
Stopping Distance	61, 62

WARRANTY AND RESPONSIBILITIES

Owner's Identification Card	63
Warranty and Maintenance	63
Warranty/Service Information	66

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.

- Use only Harley-Davidson approved parts and accessories.
- Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well ventilated area with the engine stopped. Do not smoke or allow open flames or sparks when refueling or servicing the fuel system. Always close the fuel supply valve when the engine is not running to prevent flooding of the carburetor. Do not overfill fuel tank. Leave at least one inch air space to allow for fuel expansion.
- Motorcycle exhaust contains poisonous carbon monoxide gas. Do not inhale exhaust gases and never run the engine in a closed garage or confined area.
- Before starting engine, check for proper operation of brake, clutch, shifter, throttle controls, correct fuel and oil supply.
- A new motorcycle must be operated according to a special break-in procedure. (See BREAK-IN — THE FIRST 500 MILES.)
- 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. If you are an inexperienced rider we recommend that you see your Harley-Davidson dealer for information and training in correct motorcycle riding technique.
- 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 the possibility of loss of control.
- Pay strict attention to road surfaces and wind con-

ditions. Any two wheeled vehicle may be subject to upsetting forces. Wind blasts from passing trucks, holes in the pavement, rough road surfaces, rider control error, etc., may influence the handling characteristics of your motorcycle. Should this happen, reduce speed and guide the motorcycle with a relaxed grip to a straight-away position. Do not brake abruptly or force the handlebars as this may aggravate an unstable condition. New riders should gain experience under various conditions while driving at moderate speeds.

- Wear an approved helmet, clothing and footgear suited to motorcycle riding. Bright or light colors are best for greater visibility in traffic especially at night. Avoid loose flowing garments and scarves.
- The exhaust pipes and mufflers get very hot when the engine is running and remain too hot to touch for some time after the engine is shut off. Wear clothing that will completely cover the legs when riding and avoid contact with the unshielded portion of the exhaust system.
- Do not allow others under any circumstances to

operate your motorcycle unless you are certain that they are experienced, licensed riders and are familiar with the operation of your particular motorcycle.

- When leaving motorcycle unattended, lock steering head and remove ignition key from switch. Protect your motorcycle against theft.
- Safe motorcycle operation requires mental awareness and good judgment combined with a defensive driving attitude. Don't allow fatigue, alcohol or drugs to endanger your safety or the safety of others.
- Maintain your motorcycle in proper operating condition in accordance with the Maintenance Schedules in this Owner's Manual. Particularly important to motorcycle stability is the tire inflation pressure, tread condition, and proper adjustment of wheel bearings and steering head bearings. Do not operate motorcycle with a loose, worn or damaged steering system or front or rear suspension system as handling will be adversely affected. Contact your dealer for repair of steering or suspension system wear or damage.

wear or damage.

- Be sure all equipment required by federal, state and local law is installed and in good operating condition.
- Maintain proper tire pressure and wheel and tire balance. Improper tire and wheel balance and abnormal tread wear can cause poor handling. Inspect your tires periodically. Look for excessive flat or pointed tread cross section. Replace only with approved tires. (See your Harley-Davidson dealer).
- Do not exceed the Gross Vehicle Weight Rating of your motorcycle. Maximum allowable vehicle weights with rider and passenger are specified on the Identification Label affixed to your vehicle. Overloading, particularly at the rear of a motorcycle, can cause instability.
- Do not tow a trailer.
- Regularly inspect shock absorbers and front forks. Worn parts can affect stability. If you have questions as to how these should function, see your Harley-Davidson dealer.

- Keep hazardous substances, such as brake and battery fluids and cleaning compounds away from eyes and skin and out of mouth.
- Consult your dealer regarding any questions you may have about your motorcycle. Should any abnormality whatever occur in the operation of your motorcycle, immediately contact your Harley-Davidson dealer for correction of the problem. Continued operation of a misperforming motorcycle most likely will aggravate an initial problem, cause repairs to be more costly and perhaps affect your personal safety.

RULES OF THE ROAD

- Keep on 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 possible oily pavement.
- Always sound your horn, actuate your turn signals and pass on the left side 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 or down a hill.

- At street intersections, give the right-of-way to the vehicle on your right. Do not presume too much when you have the right-of-way; the other driver may not know you have it.
- Always signal when preparing to stop or turn.
- All traffic signs, including those used for the control of traffic at intersections, should be obeyed promptly and to the letter. SLOW DOWN signs near schools and CAUTION signs at railroad crossings should always be observed and your actions governed accordingly.
- Never anticipate a traffic light. When a change is indicated from GO to STOP (or vice versa) in the traffic control systems at intersections, await the change.
- When intending to turn to the left, give signal at least 100 feet before reaching the turning point. Move over to the centerline of the street (unless local rules require otherwise), slow down passing the intersection of the street and then turn carefully to the left.
- In turning either right or left, watch for pedestrians as well as vehicles.
- Do not leave the curb or parking area without signaling and seeing that your way is clear to drive into moving traffic. A moving line of traffic has the right-of-way.
- See that your license tags are installed in the position specified by law and that they are clearly visible under all conditions. Keep them clean.
- Ride at a safe speed — a speed consistent with the type of highway you are on, and always note whether the road is dry, oily, icy or wet. Each varying condition on the highway means adjusting your speed accordingly.

ACCESSORIES AND CARGO

WARNING

The addition of accessories and additional weight to this motorcycle can affect the motorcycle's stability, handling characteristics and safe operating speed. Because Harley-Davidson cannot test every accessory or combination of accessories to make specific recommendations about their use, the rider must be responsible for the safe operation of the motorcycle when installing accessories or hauling additional weight. The following guidelines should be used when equipping a motorcycle and carrying passengers and cargo.

1. The Gross Vehicle Weight Rating (GVWR) is shown on the information plate located on the lower portion of the front frame tube. GVWR is the sum of the weight of the motorcycle and accessories and the maximum weight of the rider, passenger and cargo that may be safely carried.

Do not tow a trailer with this motorcycle. Do not exceed the Gross Vehicle Weight Rating as indicated on the frame label.

Overloading the motorcycle or towing a trailer will result in unstable handling and reduced braking efficiency which could cause an accident with personal injury.

2. Keep cargo weight concentrated close to the motorcycle and as low as possible to minimize the change in the motorcycle's center of gravity. Distribute weight evenly on both sides of the vehicle and do not load bulky items too far behind the rider or add weight to the handlebars or front forks. Do not exceed 15 pounds maximum load on each saddlebag or 25 pounds maximum in Tour Pak.
3. Luggage racks are designed for lightweight items — do not overload racks.
4. Be sure cargo is secure and will not shift while riding. Recheck load periodically.
5. Accessories that change the operator's riding position may increase reaction time and affect handling.
6. Additional electrical equipment may overload the motorcycle's electrical system and cause an unsafe operating condition.

7. Large surfaces such as fairings, windshields, backrests and luggage racks can adversely affect handling. These items should be designed and approved by Harley-Davidson specifically for the motorcycle model and be properly installed.

PRE-RIDING CHECK LIST

Read sections on OPERATION and CONTROLS before riding this motorcycle.

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

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

WARNING

Do not overfill. Leave at least one inch air space to allow for fuel expansion.

2. Check oil tank oil level. See ENGINE LUBRICATION.
3. Check controls to make sure they are operating properly; operate the front and rear brakes, throttle, clutch and shifter.
4. Check steering for smoothness by turning the handlebars through the full operating range.
5. Check tire pressure. Incorrect pressure will result in poor riding characteristics and can affect handling and stability. See TIRE DATA, for correct inflation pressures to use.
6. Check all electrical equipment and switches including the stoplamp, turn signals and horn for proper operation.
7. Check for any fuel, oil or hydraulic fluid leaks.

BREAK-IN — THE FIRST 500 MILES

The sound design, quality materials and workmanship that is built into your new Harley-Davidson will give you high performance right from the start. However, for the first 500 miles, to wear-in critical parts, observe the few simple driving rules below. This will guarantee future performance and durability.

1. During the first 50 miles, keep the speed below 45 miles per hour.
2. Up to 500 miles, vary the speed, avoiding any steady speed for long distances. Any speed, up to 55 miles per hour, is permissible for short distances.
3. Avoid fast starts at wide open throttle and overspeeding engine in lower gears. Drive slowly until engine warms up.

STARTING THE ENGINE

Use recommended oil in relation to expected temperatures. See engine lubrication chart in the MAINTENANCE AND LUBRICATION section.

WARNING

When starting the engine, shift the transmission to neutral or fully disengage clutch to prevent accidental movement which could cause possible damage to motorcycle and personal injury.

The carburetor choke control knob (Figure 14) is located under the gas tank on the left side of the motorcycle.

1. To start a cool engine at temperatures above 50 °F, open throttle twice, then fully release. Pull choke knob to first detent (fast idle) position (above 65 °F, fast idle may not be required). Turn the ignition switch on and press starter button to operate the electric starter.
2. To start a cold engine at temperatures below 50 °F, open throttle twice, then fully release. Pull the choke knob outward to the fully closed (choke) position; turn the ignition switch on and press starter button to operate the electric starter.

NOTE

Engine Stop Switch on right handlebar must be in RUN (ignition on) position to start again.

As soon as engine starts, open choke and throttle just far enough to keep it running while warming up or until ready to set motorcycle in motion. As engine warms up and misfires because of the over-rich mixture, gradually open choke by moving choke knob inward. After engine has thoroughly warmed up, choke knob should be all the way in.

3. To start a warm or hot engine, set throttle 1/4 open, turn on ignition switch and operate the electric starter. (DO NOT CHOKE.)

NOTE

When 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, open choke all the way, turn ignition on and operate starter with choke and throttle wide open.

SHIFTING GEARS

CAUTION

Never accelerate the engine to high RPM after a cold start. The engine should be allowed to run slowly for a few minutes during warm weather and for a longer time in cold weather. This will allow the engine to warm up and let oil reach all surfaces needing lubrication.

1. To start moving with motorcycle upright and engine idling, pull the clutch lever (located on left handlebar) to fully disengage clutch. Push shifter lever down firmly but gently to end of its travel to engage first gear (see Figure 1). Then release the clutch lever slowly to engage the clutch and at the same time, open throttle gradually.
2. Engage second gear after the motorcycle has run a few yards as follows: close the throttle, disengage the clutch and lift the gear shifter pedal up to the end of its travel. Then engage the clutch and operate the throttle gradually. Repeat the same operation to engage third, fourth and fifth gears.

For correct operation of your motorcycle under average conditions, the following shifting points are recommended:

Gear Change	Speed
Acceleration (Upshift)	
First to Second	15 mph (25 kph)
Second to Third	25 mph (40 kph)
Third to Fourth	40 mph (65 kph)
Fourth to Fifth	50 mph (80 kph)
Deceleration (Downshift)	
Fifth to Fourth	40 mph (64 kph) or less
Fourth to Third	30 mph (50 kph) or less
Third to Second	20 mph (30 kph) or less
Second to First	10 mph (15 kph) or less

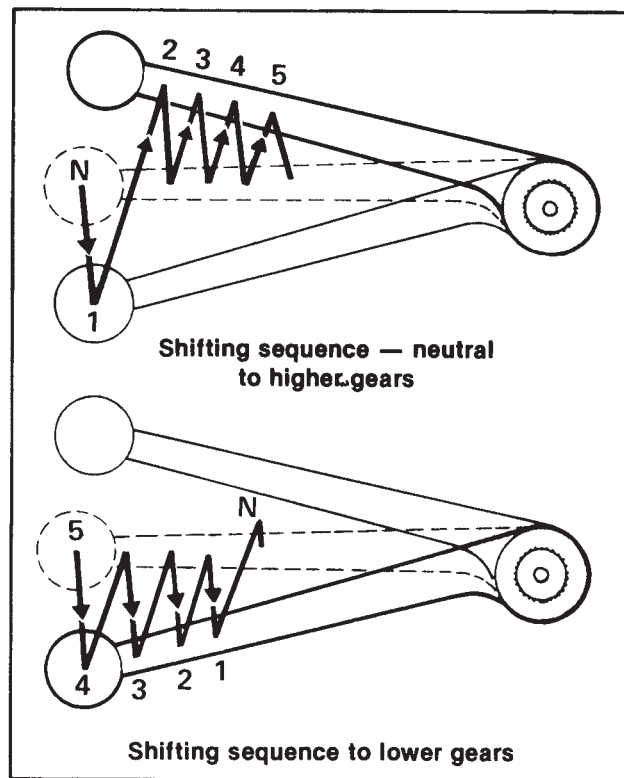


Figure 1. Shifting

To shift to lower gears, reverse the shifting of the gear shifter pedal, disengaging the clutch completely before each gear change and only partially closing the throttle so that the engine will not drag when clutch is again engaged. Keep in mind that by lifting the gear shifter lever up, a high gear is engaged; by pushing the gear shifter lever down, a lower gear is engaged. When stopping, operate gear shift until neutral is reached. Note that neutral is 1/2 stroke up from first gear or 1/2 stroke down from second gear.

CAUTION

Do not shift gears without fully disengaging the clutch.

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.

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

NOTE

Always start motorcycle in motion in first gear.

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

STOPPING THE ENGINE

Stop the engine by turning off emergency stop switch on the right handlebar and then turn off the the ignition key switch. If the engine should be stalled or stopped in any way, turn off the switch at once to prevent battery discharge.

OPERATING RECOMMENDATIONS

CAUTION

Do not run the engine at extremely high RPM with clutch disengaged or transmission in neutral. Do not exceed 5400 maximum RPM under any conditions! Do not idle the engine unnecessarily for long periods with motorcycle standing still.

An engine run long distances at high speed must be given closer than ordinary attention to avoid overheating and possible consequent damage. Have the engine checked regularly and keep it well tuned. Valve seating and good compression is particularly important. This applies particularly to a motorcycle equipped with windshield and splash shields or lap apron.

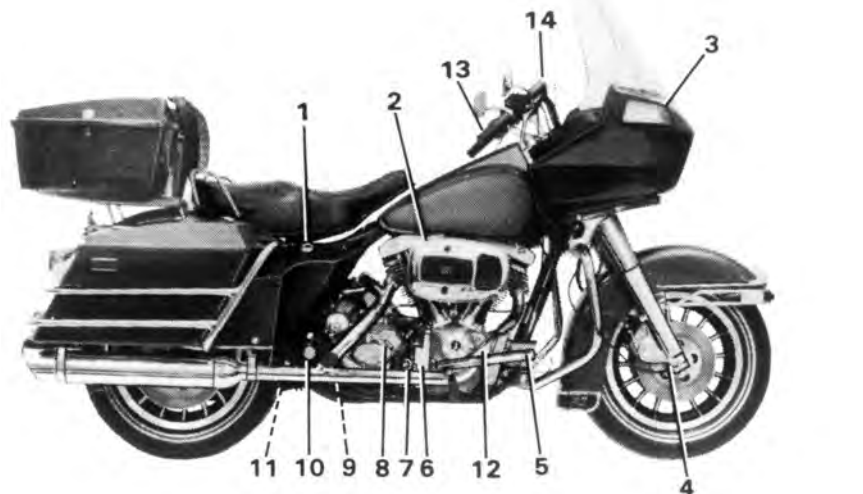
WARNING

When riding on wet roads or under rainy conditions, braking efficiency is greatly reduced and caution should be used when applying the brakes, accelerating and turning. This is especially true immediately after the rain begins and the oil from the road surface combines with the water.

When descending a long, steep grade, downshift and use engine compression together with intermittent application of both brakes to slow the motorcycle. Avoid continuous use of brakes which may cause overheating of the brakes and reduced efficiency.

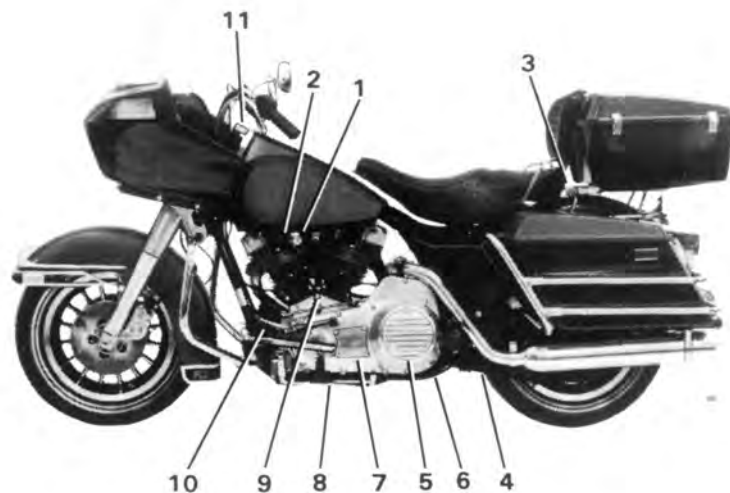
Do not coast for a long distance with the engine off because the transmission is properly lubricated only when the engine is running. Also to prevent transmission damage, do not tow the motorcycle without removing the drive chain.

NOTES



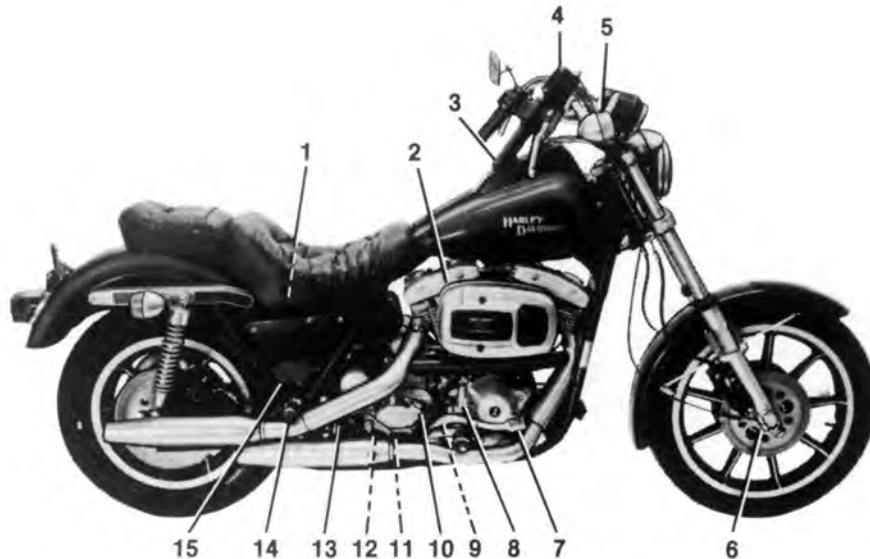
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|-------------------------------|----------------------------|---------------------------------|
| 1. Oil filler cap | 6. Oil pump | 11. Oil filter |
| 2. Air cleaner | 7. Oil pressure switch | 12. Rear brake foot pedal |
| 3. Front turn signal lamp | 8. Transmission | 13. Throttle grip control |
| 4. Speedometer drive | 9. Transmission drain plug | 14. Front brake master cylinder |
| 5. Rear brake master cylinder | 10. Passenger foot rest | |

Figure 2. Right Side View, Model FLT-80



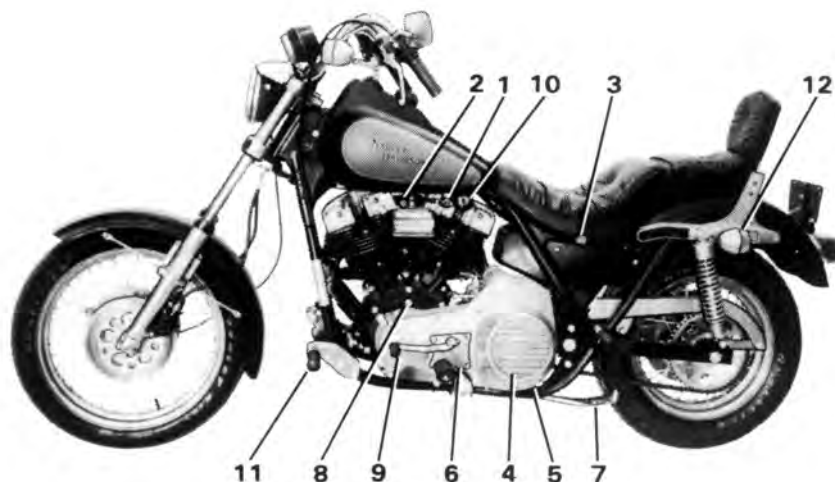
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|----------------------------|---------------------------------|--------------------------------|
| 1. Gas tank valve | 5. Clutch inspection cover | 9. Timing inspection hole plug |
| 2. Choke knob | 6. Magnetic drain plug | 10. Gear shifter |
| 3. Tour-Pak lock (Classic) | 7. Front chain inspection cover | 11. Ignition light switch |
| 4. Rear chain boot (lower) | 8. Jiffy stand | |

Figure 3. Left Side View, Model FLT-80



- | | | |
|--------------------------------|------------------------------|--------------------------------|
| 1. Oil filler cap — under seat | 6. Speedometer drive | 11. Rear brake master cylinder |
| 2. Air cleaner | 7. Rear brake foot pedal | 12. Transmission drain plug |
| 3. Throttle grip control | 8. Oil pump | 13. Oil filter |
| 4. Front brake master cylinder | 9. Oil pressure switch | 14. Passenger footrest |
| 5. Front turn signal lamp | 10. Transmission filler plug | 15. Rear brake fluid reservoir |

Figure 4. Right Side View, Model FXR



- 1. Gas tank valve
- 2. Choke knob
- 3. Seat release lever
- 4. Clutch inspection cover

- 5. Magnetic drain plug
- 6. Front chain inspection cover
- 7. Jiffy stand
- 8. Timing inspection hole plug

- 9. Gear shifter
- 10. Ignition light switch
- 11. Highway footrest (FXRS)
- 12. Rear turn signal lamp

Figure 5. Left Side View, Model FXRS

GASOLINE SUPPLY VALVE (See Figure 6)

The gasoline supply valve is located under the gas tank. Gasoline to carburetor is shut off when handle is in horizontal position. Turning the handle down to vertical position turns on main gasoline supply; turning handle up to vertical position turns on reserve supply.

WARNING

Valve should always be closed when engine is not running to ensure against accidentally flooding engine or surroundings with gasoline.

NOTE

To maintain a reserve supply, do not operate the motorcycle with the valve in the RESERVE position after refueling.

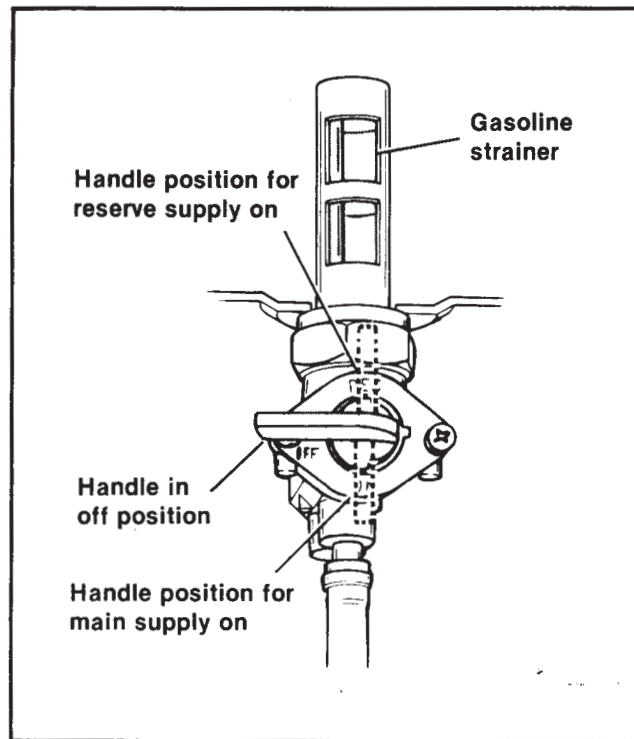


Figure 6. Gasoline Supply Valve

GASOLINE FILLER CAP

FLT

(See Figure 7)

On FLT models the gasoline filler cap is located underneath the door in the center of the gas tank. To open it, insert the ignition switch key in the lock, turn it to the left and then lift up. To remove the gas cap, turn it counterclockwise.

The gas filler cap compartment has an overflow drain. The hose from the drain exits behind the transmission.

After gas filler cap is fully closed, close door, turn key to the right and remove it.

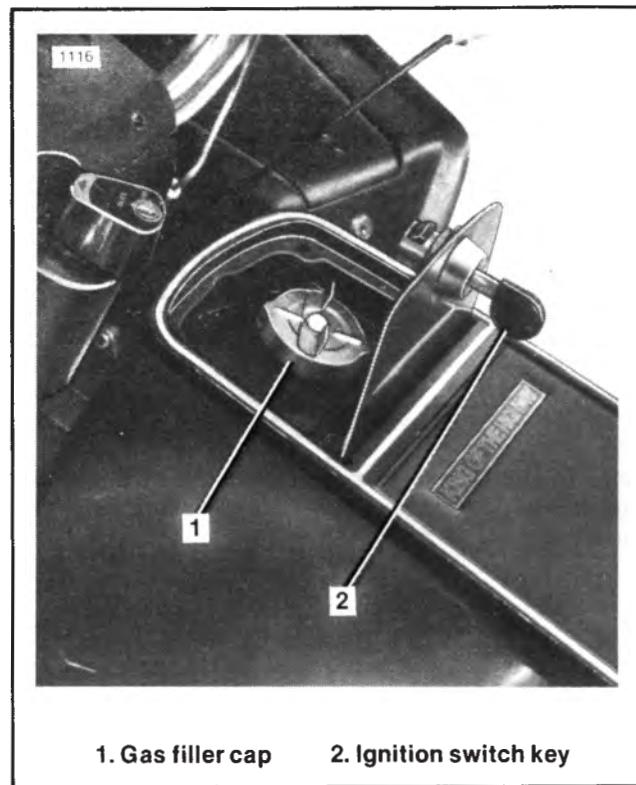


Figure 7. Gas Filler Cap — FLT

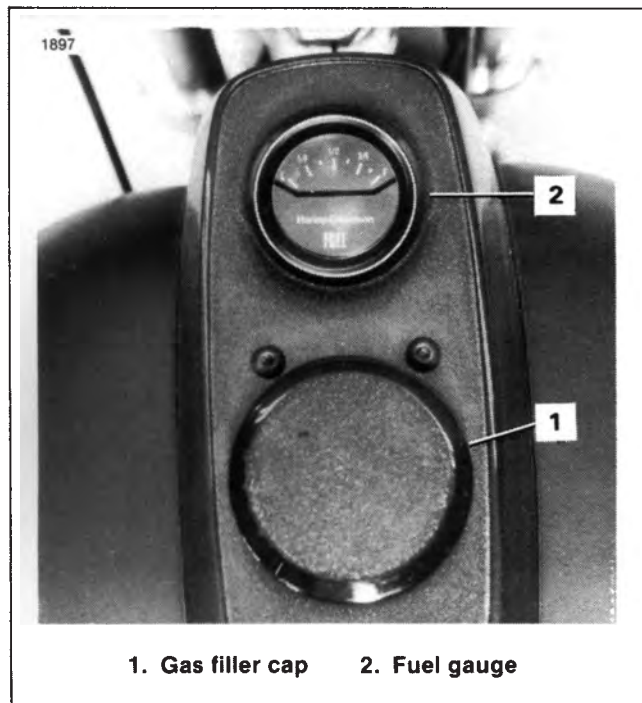


Figure 8. Gas Filler Cap — FXR

FXR (See Figure 8)

ON FXR/FXRS models the gasoline filler cap is located in the center of the gas tank, directly below the fuel gauge. To open, turn cap counterclockwise and lift up. To close, turn clockwise until the cap clicks.

NOTE

The ratchet action of the gas cap prevents over-tightening.

WARNING

Do not overfill. Leave at least one inch of air space to allow for fuel expansion. After refueling, make sure filler cap is securely tightened.

IGNITION-LIGHT SWITCH — FLT (See Figure 9)

The ignition-light switch is located below the instrument panel. To unlock the switch and the front fork, insert the key and turn it counterclockwise. Turn lever to the OFF position. Remove the key after the switch is unlocked.

Both the ignition and lights operate when the switch is in the IGNITION and LIGHTS position as required by law in some localities. The ACCESS position operates accessories only.

A front fork lock is incorporated in the ignition switch. To lock the ignition and the front fork proceed as follows:

1. Make sure motorcycle and engine are stopped.
2. Make sure that the jiffy stand is down and that the motorcycle is on a level, firm surface.
3. Insert key in switch.
4. Push down on lever and turn it to the left to the FORK LOCK position. Turn the key to the right to the LOCK position.
5. Turn handlebars to the left until lock clicks.

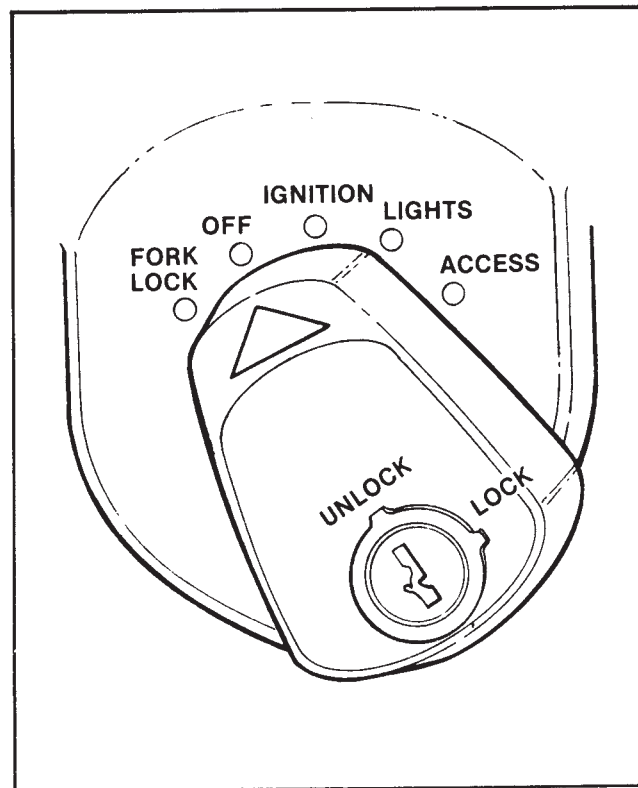


Figure 9. Ignition-Light Switch — FLT

IGNITION-LIGHT SWITCH — FXR (See Figure 10)

The ignition-light switch (Figure 10) is located below gas tank on left side of motorcycle. From OFF vertical position, there are two positions to the right for ignition and lights. For U.S.A. operation, both positions operate ignition and lights, with standard wiring, as required by law. Key can be removed to lock switch in OFF position. To protect yourself, always remove key when motorcycle is left unattended. Make a record of key number so it can be replaced in case of loss.

WARNING

Do not attempt to operate locking mechanism while motorcycle is in motion.

To protect yourself, always lock the forks and remove the key when the motorcycle is left unattended. Make a record of the key number so that it can be replaced in case of loss.

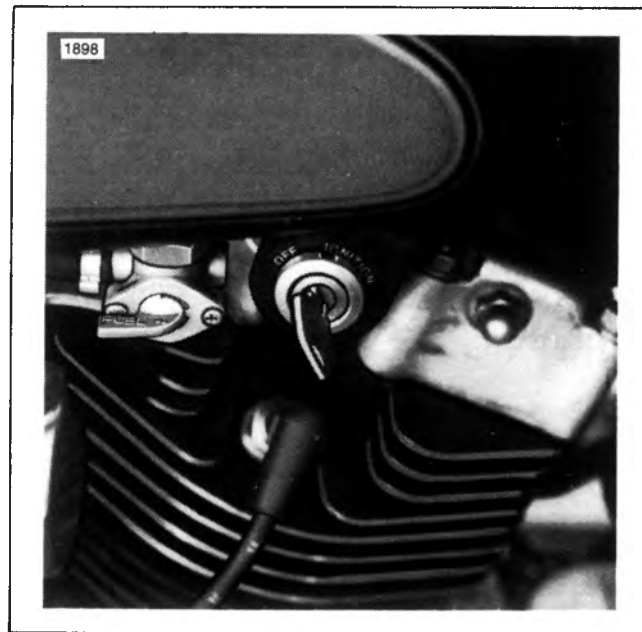


Figure 10. Ignition-Light Switch — FXR

HEADLAMP DIMMER SWITCH AND HIGH BEAM INDICATOR LIGHT

The headlamp dimmer switch on the left handlebar controls the headlamp high and low beams. Indicator light (10, Figure 11, and 2, Figure 12) remains lit when high beam is on.

TURN SIGNAL SWITCHES

Right turn switch button (6, Figure 13) on right handlebar operates the right front and right rear flashing lamps. Left turn switch button (2, Figure 13) on left handlebar operates the left front and left rear flashing lamps.

Operation of the turn signal lamps is indicated by amber colored arrows (4, Figure 11) on the instrument panel of FLT models.

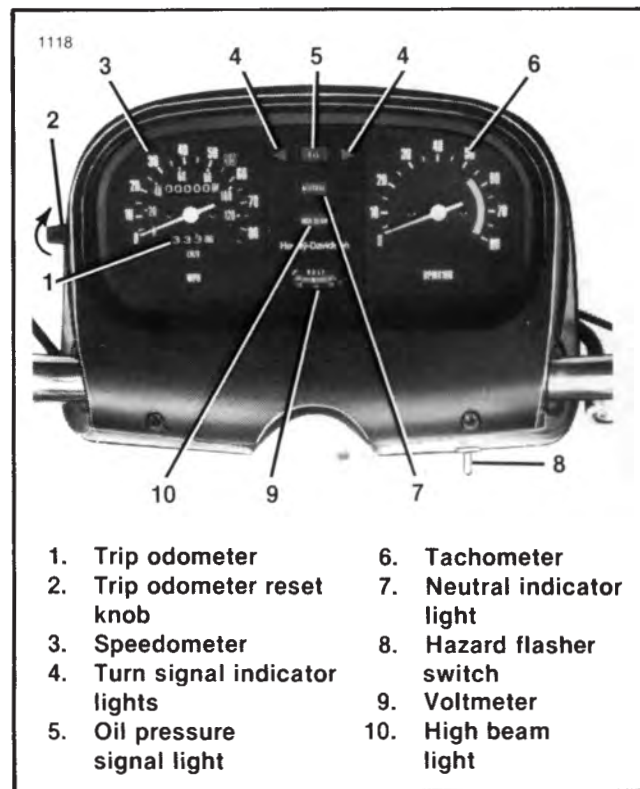


Figure 11. Instrument Panel — FLT

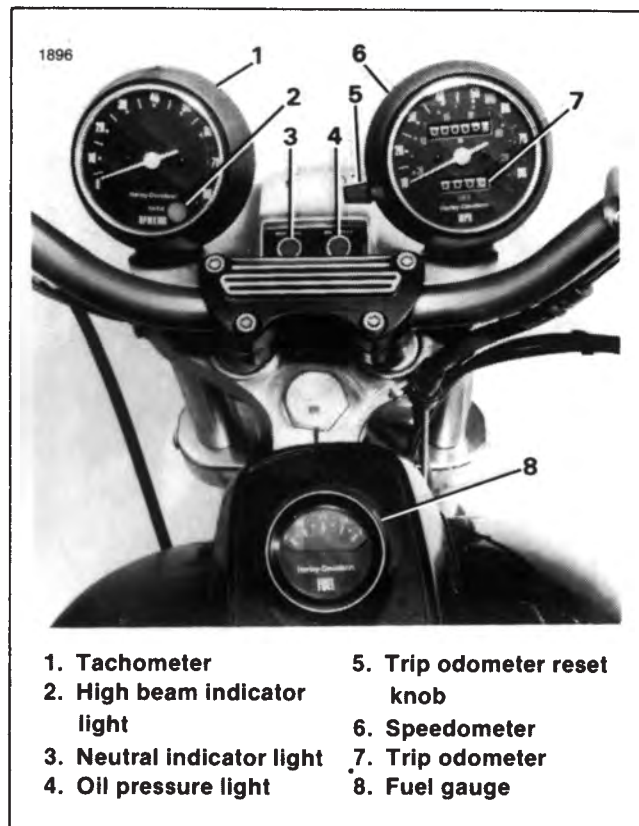


Figure 12. Instruments — FXR

HAZARD WARNING FLASHER — FLT

The hazard warning flasher switch (8, Figure 11) is located below the instrument panel. Flipping the switch up operates all four flashing turn signal lamps at the same time. The hazard warning flasher will operate when the ignition switch is in the IGNITION, LIGHTS or ACCESS position. Use the hazard warning flasher when parked at the side of the highway at night.

HORN

The horn is operated by the horn button (3, Figure 13) on the left handlebar.

ELECTRIC STARTER

The starter button (4, Figure 13) is located on the right handlebar. With ignition on, engine stop switch (5, Figure 13) in run position and transmission in neutral, push button to operate starting motor.

ENGINE STOP SWITCH

Rocker switch (5, Figure 13) on right handlebar turns ignition on or off and should be used to stop the engine in an emergency. To stop engine, push switch to position marked **OFF**.

Be sure switch is in **RUN** position to operate engine.

THROTTLE CONTROL GRIP

The throttle control grip (9, Figure 13) is located on the right handlebar. Turn control grip outward (clockwise) to close throttle; turn control grip inward (counterclockwise) to open throttle.

A spring loaded friction adjusting screw is located at the bottom of the throttle grip clamp. Turn this knurled screw outward to provide a self-closing throttle, which should return to idle position when hand is removed from throttle grip. Turn the screw inward to increase friction on grip as desired to provide a damping effect on throttle motion to reduce rider fatigue on long trips where steady speeds are maintained. The throttle friction screw should not be used under normal stop and go operating conditions.

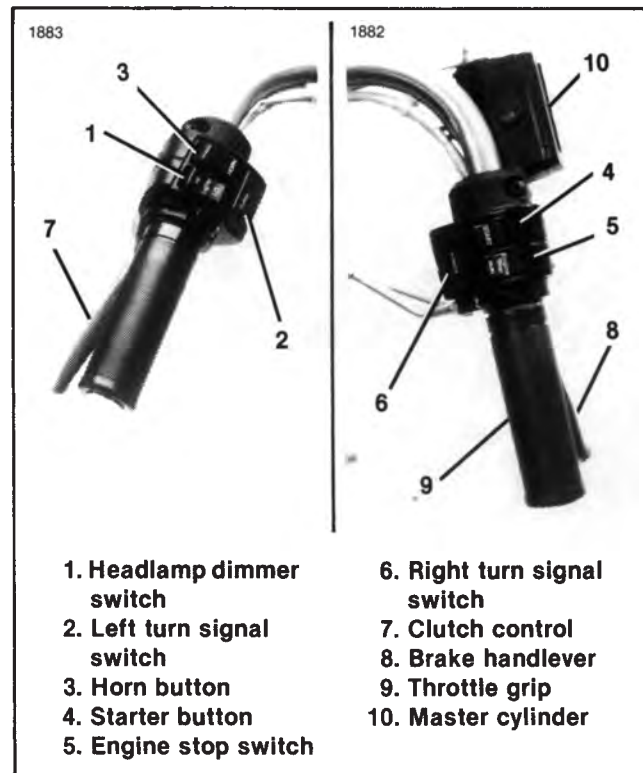


Figure 13. Handlebar Switches

WARNING

Do not overtighten the friction screw. Operation with the friction screw overtightened is not recommended because of the possible hazard involved when the engine will not return to idle automatically in an emergency.

CHOKE

The carburetor choke control knob (Figure 14) is located just under the gas tank on the left side of the motorcycle. Pull knob out to close choke; push knob in to open choke. The choke knob has four positions. As knob is pulled out to each position, the high idle cam progressively increases engine idle speed for proper engine operation.

CLUTCH HAND LEVER

The clutch hand lever (7, Figure 13) is located on the left handlebar where it may be operated easily with the fingers of the left hand. Pull lever in against handlebar grip to disengage clutch; release the lever slowly to its outward position to engage clutch.

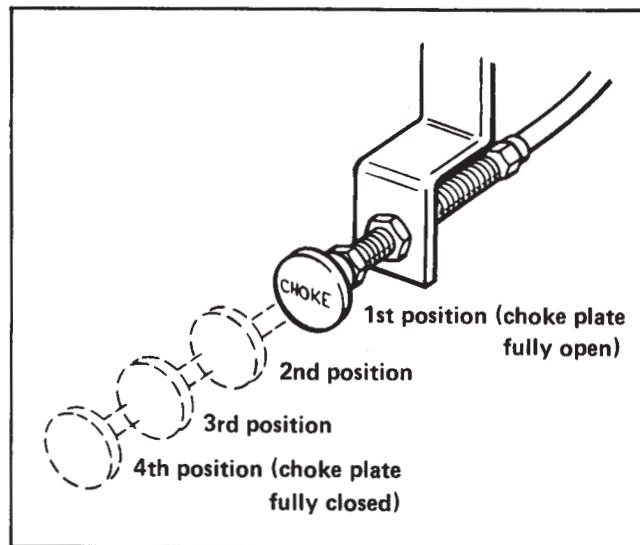


Figure 14. Setting the Choke

WARNING

Before starting engine, always shift transmission to neutral or fully disengage clutch to prevent accidental movement which could cause possible damage to motorcycle and personal injury.

WARNING

Make sure fingers are not positioned between hand control levers and handlebar grips or operation of vehicle could be impaired.

GEAR SHIFTER

The gear shifter is located on left side, where it may be operated conveniently with the toe of the left foot. Pushing lever all the way down (full stroke) shifts transmission to the next lower gear, while lifting lever all the way up (full stroke) shifts transmission into the next higher gear. The operator must release lever after each gear change to allow lever to return to its central position before another gear change can be made.

Neutral position is between first (low) and second gears. The neutral indicator light (7, Figure 11, and 3, Figure 12) will light when transmission is in neutral. First gear is the last gear position that can be found by pushing lever full strokes downward. To shift from first gear to neutral, lift lever half its full stroke. The shift to neutral can also be made from second gear by pushing lever downward one-half stroke.

It is not necessary to shift transmission to neutral before attempting to start the engine. By disengaging the clutch with the clutch hand lever and holding in the disengaged position, engine may be started regardless

of the gear in which the transmission might be engaged. However, it is better whenever possible to start the engine with transmission in the neutral position.

With the motorcycle standing still and the engine not running, it usually will be necessary to move the motorcycle backward and forward with the clutch fully disengaged while maintaining a slight pressure on the foot shift lever before a shift from one gear to another can be made. 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 are not lined up to permit engagement. When this difficulty is experienced, do not under any circumstances, attempt to force the shift by “roughing” the shifter lever; the results of such abuse will be a damaged or broken shifter mechanism. Either roll the motorcycle as indicated above, or if the engine is running, engage the clutch very slightly at the same time applying light pressure to the shifter lever to make the shift. Both of these procedures set transmission gears in motion and then the shift can be made easily. See also OPERATION.

BRAKES

The brake pedal controls the rear wheel brake and is located on the right side where it is operated by the

right foot. The brake hand lever (8, Figure 8) controls the front wheel brake and is located on the right handlebar, where it is operated by the fingers of the right hand.

Brakes should be applied uniformly and gradually to prevent wheels from locking. A balance between rear and front braking is generally best. Begin braking with the rear brake and then apply the front brake slightly later as more braking force is needed.

WARNING

Do not apply either brake strongly enough to lock the wheel because this may cause the wheel to skid with possible loss of control of the motorcycle.

JIFFY STAND

The jiffy stand is located on the left side of the motorcycle and swings outward to support the motorcycle for parking.

WARNING

Be sure stand is fully retracted before riding motorcycle or the stand could contact the road possibly causing loss of control of the motorcycle. Park on a level, hard surface so that motorcycle will not tip over.

TRIP ODOMETER

A trip odometer (1, 7 Figure 11, 12) is located at the bottom of the speedometer on the FLT and left side on FXR/FXRS. The trip odometer may be used to record distances on trips or mileage between service intervals. To reset the trip odometer to zero, turn the reset knob (2, 5 Figure 11,12) counterclockwise — toward the front of the motorcycle.

OIL PRESSURE SIGNAL LIGHT

The oil pressure signal light for the FLT is located on the instrument panel and the FXR/FXRS is located on the head lamp bracket and is marked OIL. (Figures 11, 12). Light will go on when the ignition-light switch is turned on before starting the engine. After the engine has started, light should go off.

If the oil signal light fails to go off at speeds above idling, it is usually due to an empty oil tank or a diluted oil supply. In freezing weather the oil feed line may clog with ice and sludge, thus preventing circulation of the oil. A grounded oil signal switch wire, faulty signal switch, or trouble with the oil pump will also cause the light to stay on. If the oil light fails to go off, check the oil supply. Then, if oil supply is normal and the light still does not go out. See your Harley-Davidson dealer for service.

VOLTMETER

The voltmeter (9, Figure 11) indicates the condition of the motorcycle electrical systems. Under normal operating conditions, at engine speeds above idle, the needle will stay in the green portion of the scale.

If the needle stays in the lower red zone, the battery is not fully charged. Remove the battery and fully charge it. If the condition occurs again, it could be caused by one of the following

1. Electrical system overloaded — too many accessories.
2. Poor electrical connections.
3. Stop and go driving in cold weather.
4. Faulty regulator.

If the needle operates in the upper red zone continuously, a faulty regulator is indicated.

See your Harley-Davidson dealer for diagnosis and repair of electrical system problems.

REAR SHOCK ABSORBER SPRING ADJUSTMENT

The rear shock absorber springs can be adjusted to five

positions for the weight the motorcycle is to carry. The average weight solo rider would use the extended spring position (off cam or first cam step). A heavy solo rider might require the position with springs slightly compressed (second cam step); buddy seat riders require the fully compressed spring position (third or fourth cam step).

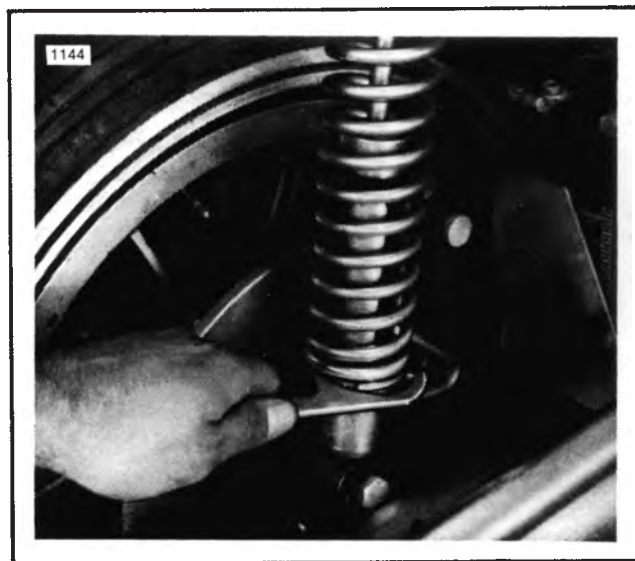


Figure 15. Rear Shock Absorber Spring Adjustment

To adjust the rear shock absorber, remove the saddlebags (FLT only), and then turn cushion spring adjusting cam (Figure 15) to desired position with spanner wrench. Both cushion spring adjusting cams must be adjusted to the same position. When returning to off-cam position, cams should be backed off in opposite direction.

SADDLEBAGS — FLT

Saddlebags with built-in turn signal lamps are standard equipment on the FLT. The saddlebags must be removed from the motorcycle when performing operations such as adjusting shock absorbers and adjusting the rear chain.

See Figure 16. To remove saddlebags:

1. With key slot in horizontal (unlocked) position, push down firmly on rear of saddlebag cover, then push in on the lock button. Lift the cover off while holding the button in.

CAUTION

Button will not work unless cover is first pushed downward.

2. Disconnect the turn signal wiring harness by firmly grasping the molded rubber connector (1) and pulling straight out.

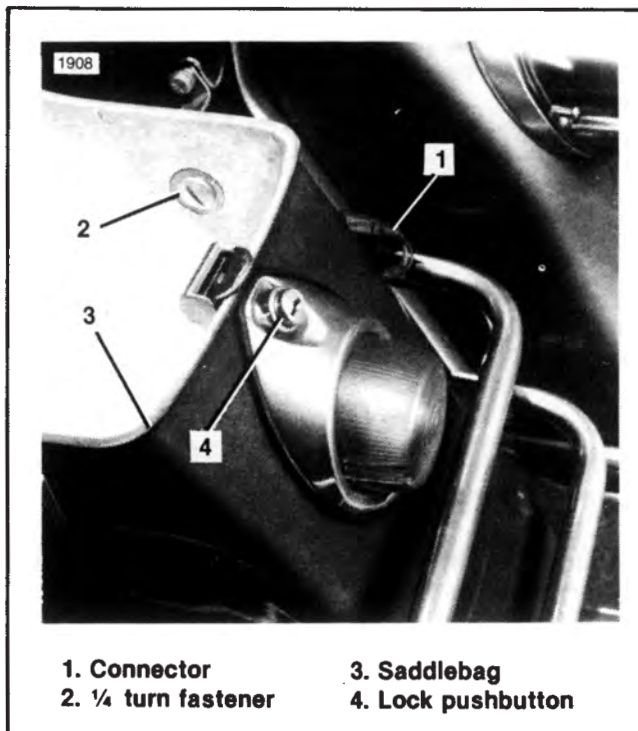


Figure 16. Saddlebag Removal — FLT

CAUTION

Do not pull on the wires since this may cause them to break.

3. Using a coin or a large bladed screwdriver, turn the 1/4 turn fasteners (2) counterclockwise until they release. Lift the saddlebag (3) free of motorcycle.

NOTE

When replacing the saddlebag or Tour-Pak cover, be sure to press down firmly on the cover until you hear the latch snap into place.

KING TOUR-PAK — FLT CLASSIC (See Figure 17)

The King Tour-Pak with sidelights is standard on FLT Classic. One key operates the Tour-Pak lock and the Tour-Pak cover lock.

To Remove the Tour-Pak:

1. Unplug the wiring harness leading from the Tour-Pak to the motorcycle. Firmly grasp both ends of the molded rubber connector and pull apart.

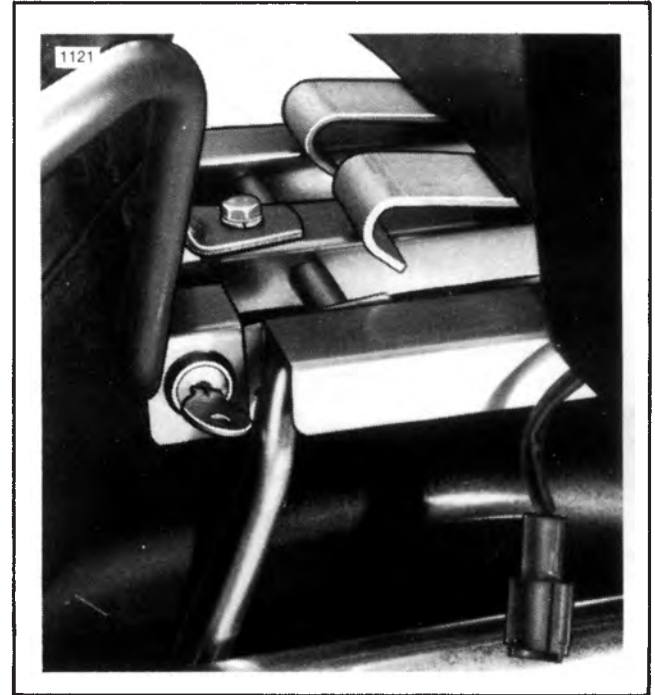


Figure 17. Tour-Pak Installation — FLT Classic

CAUTION

Do not pull on the wires since this may cause them to break.

2. Insert the key in the Tour-Pak lock. Turn key to the left slightly and then to the right as far as it will go.
3. From the rear of the motorcycle, push forward and downward on the back of the Tour-Pak to disengage it from the luggage rack.

To Install the Tour-Pak:

1. Hook the back of the Tour-Pak on the luggage rack.
2. Push forward until Tour-Pak snaps in place.
3. Insert key in Tour-Pak lock and turn it to the left as far as it will go. Hold key in this position and pull it out.
4. Re-connect wiring harness connector.

SEAT — FXR

The seat release lever (3, Figure 5) is located on the left side of the motorcycle at the base of the seat. Lift up on the lever to tilt the seat up exposing the battery and oil tank. The seat may be removed by sliding it forward while it is tilted up.

NOTES

WARNING

For your personal welfare, all the listed service and maintenance recommendations should be followed because they may affect the safe operation of your motorcycle.

BREAK-IN MAINTENANCE**NOTE**

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

After a new motorcycle has been driven its first 500 miles and again at approximately 1250 miles, the motorcycle should be taken to the dealer from whom it was purchased for initial service operations with which the dealer is familiar. If it is impossible to take the motorcycle to a dealer at the mileage intervals mentioned, the owner should at least give the following outlined attention, or arrange to have it given, and take the motorcycle to the dealer for more complete servicing when convenient to do so.

WARNING

Stop the engine and support the motorcycle securely before performing all service procedures. Service should be performed in an adequately lighted and ventilated work area using proper tools. When working on motorcycle, do not support motorcycle by placing supports under brake pedal. Damage to the brake system could occur causing possible malfunction and personal injury.

CHECK AT FIRST 500 MILES

1. Drain oil tank through drain plug, flush with kerosene and refill with fresh oil.
2. Replace oil filter.
3. Clean tappet oil screen.
4. Drain transmission through magnetic drain plug and clean plug. Refill with fresh oil.
5. Check and adjust chains.
6. Check battery electrolyte level and add distilled water if necessary. Check and clean connections.
7. Check rear brake pedal adjustment.
8. Inspect brake fluid level and condition. Check hydraulic brake lines and fittings for leaks.
9. Check brake pad linings and discs for wear.
10. Check clutch adjustment.

11. Clean fuel tank valve screen.
12. Check fuel valve, lines and fittings for leaks.
13. Check oil lines for leaks.
14. Check rear chain case oil level.*
15. Grease or oil all points indicated for 2500 miles attention in the **REGULAR MAINTENANCE INTERVAL CHART**.
16. Check front fork bearing adjustment.
17. Check tightness of all fasteners.
18. Check stabilizer links and engine mounts.
19. Check tire pressure and inspect tread.
20. Inspect and service air cleaner.
21. Check engine low and high idle speed adjustment.
22. Check throttle and choke control adjustment.
23. Check operation of all electrical equipment and switches.
24. Check primary chain case vacuum.
25. Check wheel alignment.
26. Check rear fork pivot nut tightness.
27. Check rear chain oiler adjustment.*
28. Lubricate rear chain. (If required)*
29. Road test.

*If applicable.

CHECK AT FIRST 1250 MILES

1. Check engine oil level.
2. Check transmission oil level.

3. Check and adjust chains.
4. Make sure battery connections are clean and tight.
5. Check rear brake pedal adjustment.
6. Inspect brake fluid level and condition. Check hydraulic brake lines and fittings for leaks.
7. Check brake pad linings and discs for wear.
8. Check clutch adjustment.
9. Check fuel valve, lines and fittings for leaks.
10. Check oil lines for leaks.
11. Check rear chain case oil.*
12. Check tightness of all fasteners.
13. Check stabilizer links and engine mounts.
14. Inspect air cleaner and service.
15. Check tire pressure and inspect tread.
16. Check engine low and high idle speed adjustment.
17. Check throttle and choke control adjustment.
18. Check operation of all electrical equipment and switches.
19. Check wheel alignment.
20. Check rear chain oiler adjustment.*
21. Lubricate rear chain. (If required)*
22. Road test.

*If applicable.

REGULAR SERVICE INTERVALS

Regular lubrication and maintenance will help you keep your new Harley-Davidson operating at peak performance, and will give you lower operating costs,

REGULAR MAINTENANCE INTERVAL — FLT/FXR

REGULAR SERVICE INTERVAL	ENGINE OIL	TRANS. OIL	GREASE	OIL	SERVICE
Every 300 miles	Check			Rear chain*	
Every 500 miles	Check				
Every 1250 miles	Check	Check			Service air cleaner as required Check and adjust chains Check and clean battery connections Check rear brake pedal adjustment Check brake pad linings and discs for wear Check fuel valve, lines and fittings for leaks Inspect oil lines and brake system for leaks Check tightness of all fasteners Check tire pressure and inspect tread Check wheel alignment Check stabilizer links and engine mounts Check all electrical equipment and switches
Every 2500 miles	Change			Front brake handle Throttle control cables Choke control cable Clutch control cable and handle	Replace spark plugs Clean tappet oil screen Inspect brake fluid level and condition Check clutch adjustment Clean tank fuel valve screen Clean primary chain housing magnetic plug Check engine high and low idle speeds Check throttle and choke control adjustments Replace oil filter Check ignition timing Inspect muffler hanger nylon liners
Every 5000 miles		Change	Throttle control grip sleeve Speedometer cable Rear brake pedal bushing		Check rear shock rubber bushings Check front fork bearing adjustment Clean transmission magnetic drain plug Check rear fork pivot nut tightness Inspect rear brake caliper mounting pin O-rings
Every 10,000 miles			Repack wheel bearings		
Weekly					Check tires
Spring	Change	Change			Change front fork oil Check battery electrolyte level/check and clean connections
Fall	Change	Change			

*If applicable to equipment

longer motorcycle life, and greater riding pleasure. 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

The performance of regular service interval operations is 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. Also, any alterations to the emission system components, such as the carburetor and exhaust system, may be in violation of federal and state laws.

STORAGE

If your 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, preserve the battery and to prevent the build-up of gum and varnish in the carburetor.

WARNING

After extended periods of storage and prior to starting vehicle, place transmission in gear, disengage the clutch and push vehicle back and forth a few times to ensure proper clutch disengagement.

ENGINE LUBRICATION

General

Engine oil is a major factor in the performance and service life of the engine. Use the proper grade of oil for the lowest temperature expected before the next oil change as shown below. Your Harley-Davidson dealer has the proper grade oil to suit your requirements.

Use Harley-Davidson POWER BLEND SUPER PREMIUM OIL for normal and severe usage in air temperatures between 20°F and 90°F. For other conditions, or if POWER BLEND SUPER PREMIUM is not available, use oils as shown in the chart below.

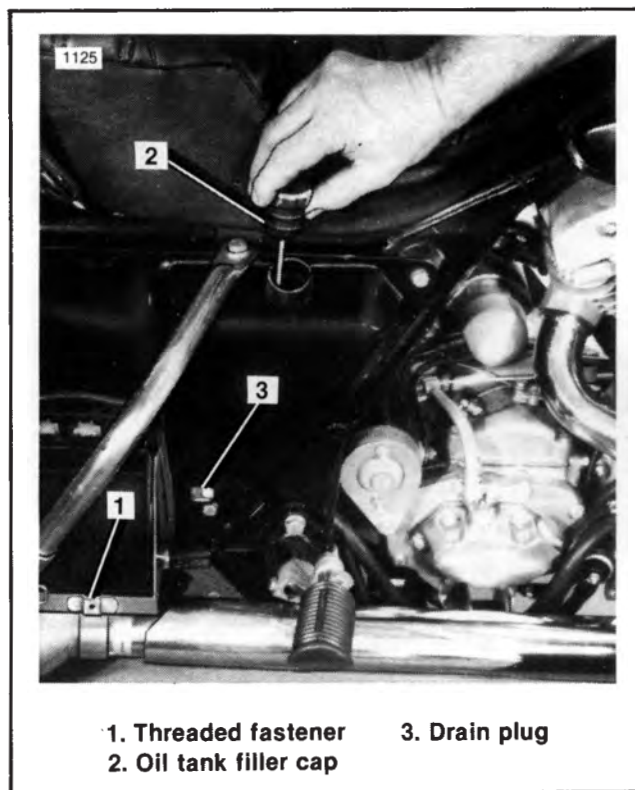


Figure 18. Oil Tank — FLT



Figure 19. Oil Tank -- FXR

CAUTION

Do not switch brands indiscriminately because some oils interact chemically when mixed. Use of inferior oils or nondetergent oils can damage the engine.

The oil tank filler cap (2, Figure 18, and 1, Figure 19) is located on the right side of the FLT and under the seat of the FXR/FXRS. The oil tank filler cap is a friction fit in the filler neck. To remove it, pull it straight out with a twisting motion. The cap has a dipstick attached to indicate oil level in the tank. If oil level is down to the lower mark on the dipstick (Figure 20), one quart can be added. Do not fill above upper mark on dipstick. Oil level should be measured with motorcycle on jiffy stand.

CAUTION

Never allow oil to go below lower mark on dipstick.

Oil mileage normally varies, depending on nature of service, fast or moderate driving and how well engine is kept tuned. A new engine will use more oil until the piston rings are fully seated.

Remove oil tank cap and **CHECK OIL SUPPLY AT LEAST EVERY 300 MILES AFTER EACH COMPLETE REFILL. FOR A NEW ENGINE, CHECK THE OIL SUPPLY EVERY 250 MILES DURING THE BREAK-IN PERIOD.**

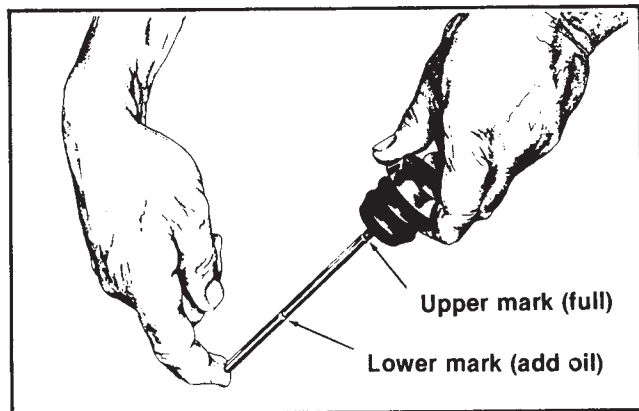


Figure 20. Oil Level Dipstick

Keep the oil level well up in tank. Oil runs cooler and oil mileage is somewhat higher with oil level well up in the tank. Furthermore, unless oil tank is kept well filled, frequent checking of oil level will be necessary to avoid any chance of running dry.

Oil should be changed after the first 500 miles for a new engine, and at about 2500 mile intervals in normal service at warm or moderate temperatures. Oil change intervals should be shorter in cold weather — see WINTER LUBRICATION. Also, engine oil should be changed more often if the engine is driven extremely hard or used on dusty roads.

Every time the oil is changed, replace the oil filter and then remove the front chain drain plug (6, Figure 3, and 5, Figure 5) and clean any debris from its magnetic tip.

TAPPET OIL FILTER SCREEN

The tappet oil filter screen (1, Figure 21) is located in the crankcase above the oil pump. Unscrew the slotted plug, remove and clean or replace the screen initially at 500 miles and every 2500 miles thereafter. Oil screen is installed with closed end up.

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 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. However, a moderately driven engine, making only short runs now and then and seldom getting thoroughly warmed up, is likely to accumulate an increasing amount of water in the oil tank. This water will, in freezing weather, become slush or ice, and if allowed

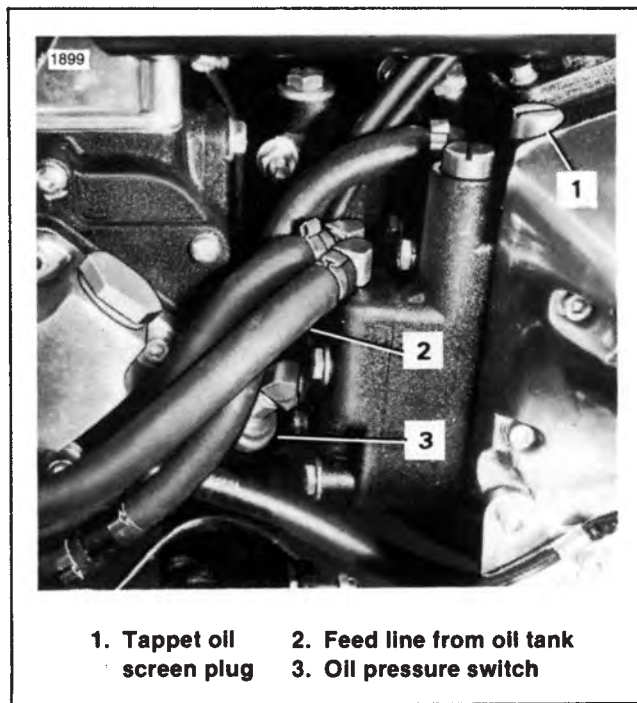


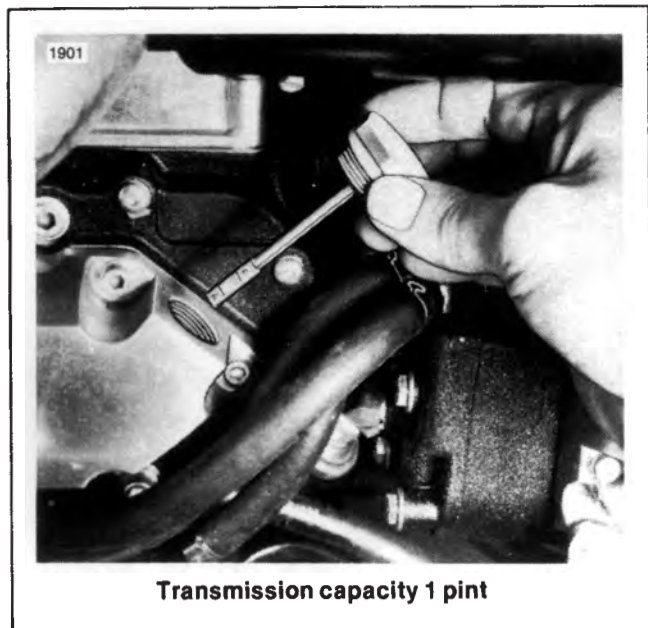
Figure 21. Oil Pump and Tappet Oil Screen

to accumulate too long, may block the oil lines and cause damage to the engine. Also, water mixed with oil for some time forms sludge that is harmful to the engine and causes undue wear of various working parts. Therefore, in winter the oil change interval should be shorter than normal for all engines, and 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 farther below freezing the temperature drops, the shorter the oil change interval should be.

TRANSMISSION LUBRICATION

The transmission oil level should be checked monthly or every 1250 miles, whichever comes first. Use the same grade of oil used in the engine.

When checking the oil level, motorcycle should be standing **STRAIGHT UP**, not leaning on the jiffy stand. Remove the threaded filler plug. Clean dipstick and reinstall all the way. Remove dipstick and take reading. (See Figure 22.) Oil level should be between the two marks on the dipstick. Add oil if necessary. Do not over-fill or leakage may occur. The transmission capacity is approximately 1 pint. When reinstalling the filler plug, tighten it finger tight.



Transmission capacity 1 pint

Figure 22. Transmission Filler Plug

The transmission should be drained and refilled with fresh oil after the first 500 miles and thereafter seasonally or every 5000 miles, whichever comes first. If the transmission should become submerged in water, drain it as soon as possible and refill to proper level.

The transmission drain plug is located underneath the transmission, in the middle of the case. When re-installing the drain plug, tighten it to 7 ft-lbs torque.

CAUTION

Do not overtighten drain plug. When draining and refilling the transmission, be careful that dirt and debris does not get into the case. Do not allow draining oil to get on rear wheel or tire.

CHAINS

General

The adjustment of the front and rear chains should be checked at 1250 mile intervals and adjusted if necessary. If the chains are allowed to run loose, they will cause the motorcycle to jerk when running at low speed, and both chains and sprockets will wear excessively.

Inspect chains occasionally for links in bad condition. If any are found, replacement of entire chain is recommended.

See your Harley-Davidson dealer for chain adjustment and replacement.

Front Chain Lubrication

A fixed amount of oil is supplied to the front chain through an oil line from the oil pump. Oil drops on the front chain from a passage in the chain case. Excess oil collects at the rear of the chain compartment and is drawn into the gear case breather valve.

When the front chain adjustment is checked at 1250 mile intervals, also check to see that the chain is well lubricated. If the chain appears dry, the oil line or passage is blocked. See your Harley-Davidson dealer for service.

Rear Chain Lubrication — FLT (See Figure 23)

The rear chain is totally enclosed and runs in an oil bath. The oil level should be checked every 1250 miles.

To check the oil level:

1. Remove left saddlebag.
2. Remove filler plug (2) and oil level plug (3).
3. With the motorcycle in an upright position, pour oil into the filler hole until it starts to run out of the oil level hole. Do not overfill or leakage may occur.

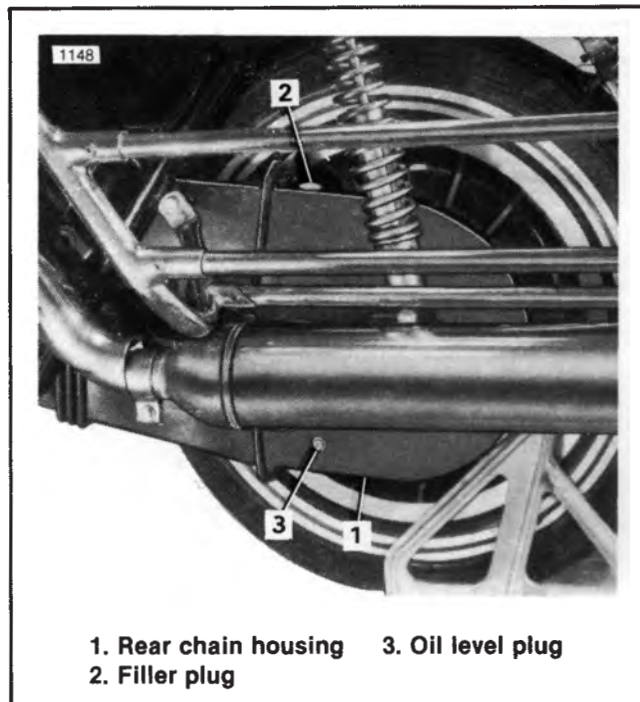


Figure 23. Rear Chain Housing — FLT

4. Reinstall the two plugs.

Use the same grade of oil used in the engine.

Rear Chain Lubrication — FXR

Motorcycle is equipped with a rear chain oiler. At regular 1250 mile intervals, make a close inspection of rear chain and check adjustment of oiler. If rear chain does not appear to be getting sufficient lubrication, or if there is evidence of an over-supply of oil, readjustment should be made with rear chain oiler adjusting screw. The rear chain oiler is located on the oil pump.

CHASSIS LUBRICATION

Greasing

Use wheel bearing grease for steering head bearings and wheel bearings. Use a multi-purpose chassis grease for other applications.

Repack front and rear wheel bearings every 10,000 miles, or yearly if operated under winter conditions.

Remove and grease handlebar throttle control grip sleeve with fresh grease every 5000 miles, once each year, or when operation indicates lubrication is necessary.

1. Remove and grease speedometer drive cable every 5000 miles.
2. Remove and grease the rear brake pedal every 5000 miles. The bushing should be cleaned and inspected for wear before applying fresh grease.

Oil Applications

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

Front Fork Oil

The hydraulic front fork requires little maintenance or attention. Drain and refill once annually. If fork does not appear to be working properly or an appreciable amount of oil leakage should develop, attention should be given by a Harley-Davidson dealer. Incorrect recoil action will result if there is insufficient oil in either side of fork.

SPARK PLUGS

The spark plugs should be replaced with new ones at least every 2500 miles.

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 wires since 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 to 0.043 in. Be sure that your motorcycle has the correct spark plug, which is Harley-Davidson 5R6A, Part No. 32312-78, or 5RL, Part No. 32312-78A.

Spark plugs must be tightened to 18-22 ft-lbs. torque in the cylinder heads for proper heat transfer. If a torque wrench is not available, tighten plugs finger tight and tighten an additional one quarter turn with a spark plug wrench.

See Service Manual for complete spark plug service instructions.

CARBURETOR

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

Carburetor controls include throttle, choke and low/high idle speed adjusting screws. Operation should be checked and adjusted after the first 500 miles and every 1250 miles thereafter.

CAUTION

Operation at higher altitudes (approximately 4000 ft. elevation) may require carburetor modifications for best engine performance. A high altitude carburetor kit, which provides leaner fuel/air mixtures, is available from your Harley-Davidson dealer.

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

AIR CLEANER

Carburetor air cleaner is equipped with a plastic foam air filter element which is oil saturated.

Remove air cleaner cover and inspect filter element at least every 1250 miles, or more often under dusty conditions. The need for servicing is indicated by the appearance of the outside surface of the filter. Filter should be cleaned and re-oiled if a film of dirt has built up covering the surface pores, or if light spots show on the surface which means that dust is drying out the oil. A dirty, dark appearance is normal, as long as pores in the filter remain open and covered with an oil film.

1. To clean filter, remove it from screen and wash it in a non-flammable petroleum solvent or detergent and water. Allow to dry thoroughly.
2. Saturate with same weight oil as recommended for engine crankcases. Apply oil to element liberally working in with hands and fingers until element is uniform in color indicating saturation.
3. After excess oil has drained off, replace element on screen so that three grooves are toward screen, and re-install on the engine.

GASOLINE STRAINER

A screen type gasoline strainer is located on top of the gasoline supply valve inside the gasoline tank (see Figure 6). Check the fuel valve, lines and fittings for leakage at least every 1250 miles. Screen should be cleaned at 2500 mile intervals. See your Harley-Davidson Dealer for service.

IGNITION TIMING

Ignition timing is preset at the factory. Spark timing is advanced electronically as engine speed increases to suit starting, low speed and high speed requirements.

Ignition timing should be checked every 2500 miles. If

ignition timing is not correct, your Harley-Davidson dealer can provide the necessary services.

HYDRAULIC TAPPETS

Tappets are self-adjusting, hydraulic type. They automatically adjust length to compensate for engine expansion and valve mechanism wear, and thus keep the valve mechanism free of lash when the engine is running. Tappet adjustment is required only in a new engine assembly and when the engine is reassembled after repair. No further readjustment of tappets is required.

When starting an engine which has been shut off even for a few minutes, the valve mechanism may tend to 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 lubricating oil supply in the oil tank first if the valve mechanism is noisy, 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 due to dirt in the oil supply passages leading to the lifter

units. Tappet oil supply filter screen (1, Figure 21) may require cleaning. See your Harley-Davidson dealer for service.

CLUTCH

Periodic adjustment of the clutch and oiling of the clutch control cable is required every 2500 miles to compensate for lining wear. The need for attention to clutch and controls will also be indicated by the clutch slipping under load, or dragging in released position. In any case, the first thing to be checked is the adjustment of control. See your Harley-Davidson dealer for proper service.

BRAKES

Every 1250 miles, check the fluid level in the master cylinder reservoir and check brake pad lining and brake discs for wear. Use only D.O.T. 5 HYDRAULIC BRAKE FLUID that is approved for brake system use which is available from your Harley-Davidson dealer.

WARNING

Because brake performance is a critical safety item, brake system servicing requires special tools, correct replacement parts and procedures. We recommend that you see your Harley-Davidson dealer for these services.

WHEEL BEARINGS

Bearings should be repacked at 10,000 mile intervals, or yearly if operated in winter weather. Use wheel bearing grease and new seals. Excessive play or roughness indicates worn bearings and they will require replacement.

FXR wheel bearing end play should be .004 to .018 with axle nut tightened to 50 ft-lbs torque.

FLT wheel bearing end play should be .002 to .006 with axle nut tightened to 38 ft-lbs torque.

WHEEL ALIGNMENT

The stabilizer links and engine mounts should be checked for wear according to Service Manual procedures after the first 500 miles and every 1250 miles thereafter. Stabilizer links should be replaced if they have 0.025 in. or more end play. See your Harley-Davidson dealer for this service.

Alignment of the wheel in the rear fork should be checked after the first 500 miles, every 1250 miles thereafter and whenever the rear wheel is removed and reinstalled or when the chain is adjusted.

WARNING

The alignment of the rear wheel is important. Vehicle stability is adversely affected if wheels are out of alignment. Major alignment of the rear wheel is controlled by two stabilizer links. One at the front of the engine and one at the top of the engine. Do not change the adjustment of the links. Changing the adjustment as little as 1/3 turn will adversely affect motorcycle stability.

Major alignment should only be performed by your Harley-Davidson dealer using SERVICE MANUAL procedures.

TIRES

Care should be taken to keep tires properly inflated. See TIRE DATA, for correct cold tire inflation pressures. Check before riding when tires are cold. Do not over-inflate tires.

WARNING

Improper tire inflation will cause abnormal tread wear and could result in unstable handling. Under-inflation could result in the tire slipping on the rim.

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

WARNING

Both tires have inner tubes. Rim bands must be used on spoked wheels but are not required on cast wheels.

WARNING

Riding with excessively worn, unbalanced or improperly inflated tires is hazardous and will adversely affect traction, steering and handling.

Same as original equipment tires must be used. Other tires will not fit correctly and may be hazardous to use.

Because tires, tubes and wheels are critical safety items, and servicing of these items requires special tools and skills, we recommend you see your dealer for these services.

SHOCK ABSORBERS

Shock absorbers and rubber bushings should be inspected every 5000 miles for leaks and bushing deterioration.

FRONT FORK BEARING ADJUSTMENT

Check front fork for proper bearing adjustment at 500

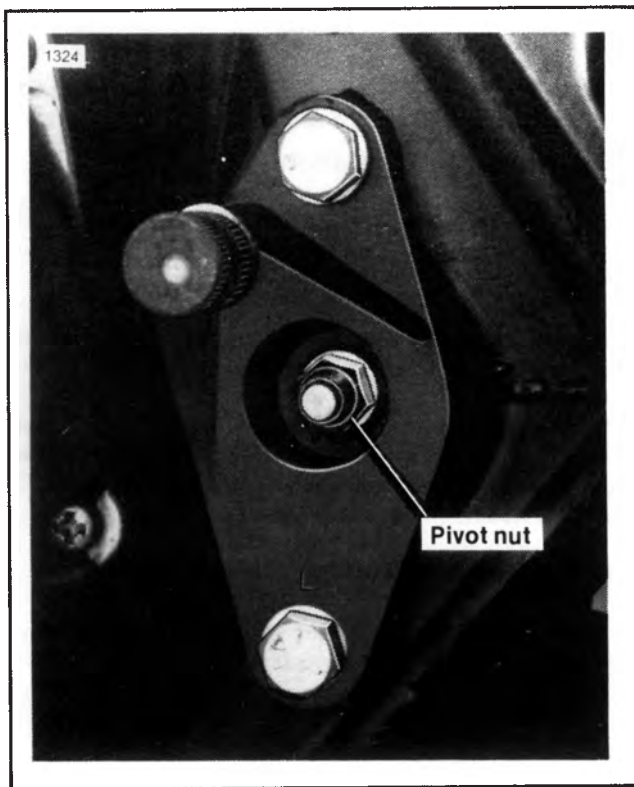


Figure 24. Rear Fork Pivot Nut

miles and every 5000 miles thereafter. With front end of motorcycle raised off the floor, make 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 if necessary according to Service Manual procedure.

WARNING

Adjustment of front fork bearings is critical. Improperly adjusted bearings will adversely affect motorcycle handling and stability. It is recommended that fork bearing adjustments be performed by your Harley-Davidson dealer.

REAR FORK PIVOT SHAFT (See Figure 24)

The rear fork is isolated from the motorcycle frame by a system of rubber mounts. The tightness of the rear fork pivot nuts should be checked after the first 500 miles and every 5000 miles thereafter.

To check pivot nut tightness, proceed as follows:

1. Remove the chrome cap beneath the passenger footpeg. The cap is a friction fit and may be pried out with a screwdriver.

2. Tighten pivot nut to 45 ft-lbs torque.

3. Reinstall the chrome cap.

If nut cannot be tightened properly, see your Harley-Davidson dealer.

HEADLAMP

The headlamps are of the sealed beam type. When replacement is required, use only the specified sealed beam unit available from your Harley-Davidson dealer.

BATTERY

The FLT battery is located on the right side of the motorcycle under the side cover. To check and service the battery, remove the right saddlebag and side cover. The FXR battery is located under the seat. (See SEAT — FXR).

It is the care given a battery, rather than the time and miles of service, which is most important in determining its life.

Inspect the level of the battery solution at least once a

week during motorcycle operation, adding pure distilled water as often as necessary to keep the solution above the plates. If the motorcycle is not used for an extended period of time, check solution level before placing in service.

Remove the battery filler plugs. With a hydrometer or syringe, add water to each cell to raise level of solution between upper and lower level limits shown on battery. Motorcycle should be in an upright position to check the solution level.

Clean connections and check tightness every 1250 miles.

WARNING

Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing.

ANTIDOTE

External — flush with water.

Internal — Drink large quantities of water followed by milk of magnesia, vegetable oil, or beaten eggs. Call doctor immediately.

WARNING

Batteries produce explosive hydrogen gas at all times

— especially when being charged. Keep cigarettes, open flame, and sparks away from the battery at all times. Ventilate area when charging battery. Always protect hands and protect eyes with shield or goggles when working near a battery or acid. **KEEP BATTERIES AND ACID OUT OF THE REACH OF CHILDREN!**

CAUTION

If battery is filled to a higher level, some of the solution will be forced out through the vent tube when battery is charging. This will not only weaken the solution, but also may damage parts near the battery. Keep battery clean and lightly coat terminals with petroleum jelly to prevent corrosion. Do not overtighten terminal connections. To prevent battery case damage caused by pressure build-up, be sure vent tube is properly routed and not kinked or obstructed.

ALTERNATOR CHARGING RATE AND CONTROL MODULE

The alternator output is controlled and changed to direct current by the control module located at the front of the engine. The regulator functions to increase charging rate when battery is low or lamps are lighted, and to decrease charging rate when no lamps are lighted and

when battery is up. This unit requires no interval attention. Should any electrical system trouble be experienced that might be traceable to the alternator or control module, the motorcycle should be taken to your Harley-Davidson dealer who has the necessary electrical testing equipment to give required attention.

CIRCUIT BREAKERS

To protect the motorcycle wiring, there are four circuit breakers: main, lighting, accessory, and ignition.

Each of these breakers is self-resetting and automatically returns 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.

BULB CHART — FLT

The chart below gives the light bulb locations and requirements for FLT models.

LAMP DESCRIPTION (ALL LAMPS 12 V.)	NUMBER OF BULBS REQUIRED	CANDLE POWER OR WATTAGE	HARLEY- DAVIDSON PART NUMBER
Headlamp High Beam Low Beam	2	50 Watts 35 Watts	67717-65A
Tail and Stop Lamp Tail Lamp Stop Lamp	1	3 C.P. 32 C.P.	68165-64
Turn Signal Lamps Front Turn Signal Lamp Clearance Lamp Rear	2 2	32 C.P. 3 C.P. 32 C.P.	68165-64 68572-64A
Tour-Pak Side Lights	4	2 C.P.	53439-79
Fender Tip Lamps	2	2 C.P.	53439-79
Instrument Panel Lamps	9	1 C.P.	71099-74

BULB CHART — FXR/FXRS

The chart below gives the light bulb locations and requirements for FXR models.

LAMP DESCRIPTION (ALL LAMPS 12 V.)	NUMBER OF BULBS REQUIRED	CANDLE POWER OR WATTAGE	HARLEY- DAVIDSON PART NUMBER
Headlamp High Beam Low Beam	1	50 Watts 35 Watts	67698-81A
Tail and Stop Lamp Tail Lamp Stop Lamp	1	3 C.P. 32 C.P.	68165-64
Turn Signal Lamps	4	32 C.P.	68572-64A
Instrument Lights			
Fuel Gauge	1	2 C.P.	68462-64
Speedometer	1	1 C.P.	71099-74
Tachometer	1	1 C.P.	71099-74
High Beam Indicator	1	1 C.P.	71099-74
Neutral Indicator	1		67852-75
Oil Pressure Signal	1		67792-75

DIMENSIONS (in.)

	FLT	FXR
Wheel Base	60.6	64.7
Overall Length	94.0	94.2
Overall Width	37.0	31.0
Road Clearance	5.9	6.0
Overall Height	62.0	51.3
Saddle Height	32.0	28.0

WEIGHT (lbs.)

	FLT	FXR
DRY WEIGHT		
(as shipped from the factory)	725	581
GVWR	1180	1085
GAWR — Front	410	390
GAWR — Rear	770	695

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 front frame downtube.

CAPACITIES (U.S.)

	FLT	FXR
Fuel Tank (gallons) Total	5	3.8
Reserve	0.7	0.4
Oil Tank (Quarts)	4	3.5
Transmission (Pints)	1	1
Rear Chain Case (Ounces)	6	—

ENGINE

Number of Cylinders	2
Type	4-Cycle, 45 Degree V-Type
Compression Ratio	7.4 to 1

Horse power — rpm	Bore in. (mm)	Stroke in. (mm)	Displacement cu. in. (cc)	Torque lb.-ft. — rpm
65/5400	3.498 (88,8)	4.25 (108,0)	81.6 (1338,6)	67/3600

IGNITION SYSTEM

Spark Plugs	
Type	Harley-Davidson 32312-78, No. 5R6A Harley-Davidson 32312-78A, No. 5RL
Size	14 mm x 3/4 in. reach

Gap0.038 to 0.043 in.
 Spark TimingRetard 3° B.T.C.
 (Automatic Advance) 35° B.T.C.

TRANSMISSION

TypeConstant Mesh, Foot Shift
 Speeds5 Forward

NUMBER OF SPROCKET TEETH

Engine24 Transmission.....22
 Clutch.....37 Rear Wheel — FLT46
 Rear Wheel — FXR48

OVERALL GEAR RATIOS — FLT

First (Low) Gear10.45 Third Gear5.17
 Second Gear7.13 Fourth Gear3.98
 Fifth Gear3.22

OVERALL GEAR RATIOS — FXR

First (Low) Gear10.89 Third Gear5.38
 Second Gear7.43 Fourth Gear4.13
 Fifth Gear3.36

TIRE DATA

		TIRE PRESSURE PSI (COLD)	
		FRONT	REAR
Solo Rider	FLT	24	26
	FXR	24	24
Rider and one passenger	FLT	24	32
	FXR	24	26

WARNING

Maximum pressure of these tires is 36 psi for FLT, 32 psi for FXR.

WARNING

For your own personal safety, tires and tubes must be correctly matched to wheel rims. See your Harley-Davidson dealer. Tires and tubes listed must be used exclusively for replacement. Mismatching tires, tubes and rims may result in damage to the tire bead during mounting or may allow the tire to slip on the rim, damaging the tube, causing rapid tire deflation. In addition, using tires and tubes other than those specified may

adversely affect motorcycle stability. Use only tube type tires on all Harley-Davidson cast and laced (wire spoke) wheels. Protective rubber rim strips must be used on laced (wire spoked) wheels. Tire sizes are molded on the tire sidewall. Tube sizes are printed on the tube.

GASOLINE

Use a good quality leaded gasoline (89 pump octane or higher).

PUMP OCTANE is the octane number usually shown on the gas pump.

SERIAL NUMBERS

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 downtube. An abbreviated V.I.N. is stamped on the right side crankcase near the front of the engine.

NOTE

Always give one of these numbers when ordering parts or making any inquiry about your motorcycle.

Made in U.S.A.	1	HD	1	AE	K	1	**	C	Y	110000
Harley-Davidson										
Heavyweight Motorcycle										
Model Designation*										
Engine Displacement*										
Regular Introduction Date										
Check Digit (Factory use)										
Model Year (1982)*										
Plant of Manufacture (York)										
Sequential Number*										

	1981	1982
FLT	AE	DA
FLT Classic	AF	DB
FXR		EA
FXRS		EB

(2)
Mid-year Introduction

*Abbreviated VIN on Engine
 **Varies - can be 0 thru 9 or X

Sample V.I.N. as it appears on the steering head - 1 HD 1AEK1 1 CY110000
 Sample abbreviated V.I.N. as it appears on the engine - AEKC 110000

STOPPING DISTANCE

Description of vehicle: Harley-Davidson 1982 FLT-80, FXR, FXRS.

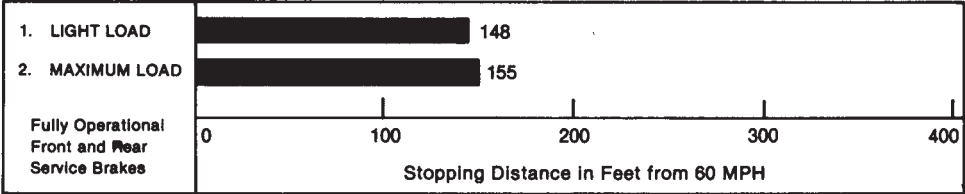
Required by Federal Consumer Information Regulations.

These figures indicate braking performance that can be

met or exceeded by the vehicle to which it applies, without locking the wheels, under different conditions of loading.

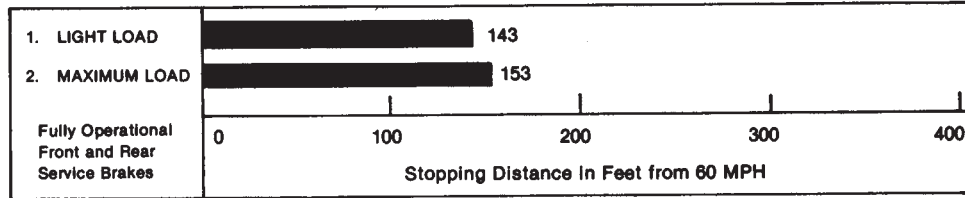
Notice: The information presented represents results obtainable by skilled drivers under controlled road and vehicle conditions, and the information may not be correct under other conditions.

FLT-80



- 1. Light Load Vehicle Weight . . includes 200 lb. driver - no accessories.
- 2. Maximum Loaded Vehicle Weight . . includes 300 lb. driver and passenger load plus full accessory equipment.

FXR/FXRS



1. **Light Load Vehicle Weight** .. Includes 200 lb. driver
- no accessories.
2. **Maximum Loaded Vehicle Weight**.. includes 300 lb.
driver and passenger load plus full accessory equipment.

OWNER'S IDENTIFICATION CARD

A permanent Owner's Identification Card is issued to each Harley-Davidson new motorcycle owner when we receive the completed warranty registration form.

The Owner's Identification Card is a permanent record showing proof of your ownership and gives all of the information necessary for you and your dealer to simplify and expedite service and obtain parts and accessories.

Keep this card in your possession, since it is required by your Harley-Davidson dealer for any warranty service performed on your motorcycle.

If you have any questions regarding service or warranty, we recommend that you contact your Harley-Davidson dealer for assistance.

WARRANTY AND MAINTENANCE

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

The approved service and maintenance procedures on each coupon and the mileage intervals cover items which are the owner's responsibility to have taken care

of. Starting with the 500 and 1250 mile maintenance intervals, all of the specified maintenance services must be performed to keep your warranty in force. Dealer charges for the recommended service procedures are nominal.

Bring this Owner's Manual along when you visit your dealer at the specified mileages to have your motorcycle inspected and serviced. 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 or owner as a record of proper maintenance. Also keep other receipts covering any service or maintenance performed. These records should be transferred to each subsequent owner.

WARNING

We caution 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, and could cause an accident with possible injury to yourself or others. Also, removing factory installed standard parts may affect performance and cause an injury. The use of any non-standard parts including mufflers may void your warranty according to terms of the warranty.

HARLEY-DAVIDSON MOTORCYCLE LIMITED WARRANTY

(U.S.A. AND CANADA ONLY)

Harley-Davidson Warrants to the first purchaser only of our 1982 model motorcycles or sidecar that our Selling Dealer will repair or replace without charge any parts (except tires and maintenance items) 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:

1. The warranty period is six months or 6,000 miles, whichever comes first, measured from the date of delivery with an extension on time only for vehicles purchased between October 15 and February 15 as follows:

For Vehicles Purchased From:	Extension
October 15 to November 15	4 Mo.
November 16 to December 15	3 Mo.
December 16 to January 15	2 Mo.
January 16 to February 15	1 Mo.

2. 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.
3. To obtain warranty service, return your motorcycle at your expense within the warranty period to the Selling Dealer, or to any other authorized Harley-Davidson motorcycle Dealer if you have moved a long distance, are touring a long distance, or need emergency service. 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 pro-

vide warranty service during his normal business hours and as soon as possible, depending upon his service department's workload and the availability of necessary parts.

4. This warranty will not apply to any vehicle as follows:
- a) Which has not been operated or maintained as specified in the Owner's Manual.
 - b) Which has been abused, altered outside of factory specifications, improperly stored or used for racing or "off the highway" competition of any kind.
 - c) Which has had the odometer removed or tampered with.
5. This warranty does not cover:
- a) Parts and labor for normal maintenance as recommended in the applicable Owner's Manual, including such items as the following: lubrication, oil and filter change, fuel system cleaning, battery maintenance, engine tune-up, spark plugs, brake, clutch and chain/belt adjustment (including chain replacement).
 - b) Seats, saddle bags, paint, chrome, or trim deterioration caused by ordinary wear and tear, exposure or improper maintenance.

6. 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.

THERE IS NO OTHER EXPRESS WARRANTY (OTHER THAN EMISSIONS WARRANTY) ON THE MOTORCYCLE. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THIS WARRANTY.

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.

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 CO., INC., P.O. Box 653 Milwaukee, Wisconsin 53201. U.S.A.

HARLEY-DAVIDSON EMISSION CONTROL SYSTEM WARRANTY

The following warranty applies to the emission control system and is in addition to the NEW MOTORCYCLE LIMITED WARRANTY.

Harley-Davidson Motor Co., Inc., warrants to the first owner and each subsequent owner that his 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 his 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 CO. INC., P.O. Box 653, Milwaukee, Wisconsin 53201 U.S.A.

WARRANTY/SERVICE INFORMATION

Your selling dealer is responsible for providing the warranty repair work on your motorcycle. Should you move from your present address, tour a long distance or require emergency warranty repair work, the warranty repair work may be performed by any authorized Harley-

Davidson dealer. (Consult your Limited Warranty for complete details.)

For normal service work or warranty work under the above conditions, you may obtain the name and location of your nearest Harley-Davidson dealer by calling **1-800-221-3333** (toll free), Monday through Friday, between 9 a.m. and 7 p.m. E.S.T. (except holidays).

500 MILE
(800 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

500 MILE
(800 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter. ☐
3. Clean tappet oil screen. ☐
4. Clean primary chain housing magnetic drain plug. ☐
5. Change transmission oil. ☐
6. Inspect air cleaner and service as required. ☐
7. Check and adjust chains. ☐
8. Check battery electrolyte level. Check and clean connections. ☐
9. Check rear brake pedal adjustment. ☐
10. Inspect brake fluid level and condition. ☐
11. Check brake pad linings and discs for wear. ☐
12. Check clutch adjustment. ☐
13. Clean tank fuel valve screen. ☐
14. Check fuel valve, lines and fittings for leaks. ☐
15. Check oil lines and brake system for leaks. ☐
16. Check rear chain oil level.* ☐
17. Oil the following: Front brake handlever, clutch handlever, throttle control cable, choke control cable, and clutch control cable ☐
18. Check front fork bearing adjustment. ☐
19. Check tightness of all fasteners. ☐
20. Check stabilizer links and engine mounts. ☐
21. Check tire pressure and inspect tread. ☐
22. Check engine low and high idle speed adjustment. ☐
23. Check throttle and choke controls. ☐
24. Check primary chain case vacuum. ☐
25. Check operation of all electrical equipment and switches. ☐
26. Check wheel alignment ☐
27. Check rear fork pivot nut tightness ☐
28. Check rear chain oiler adjustment.* ☐
29. Lubricate rear chain (if required).* ☐
30. Road test. ☐

*If applicable to equipment.

500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter. ☐
3. Clean tappet oil screen. ☐
4. Clean primary chain housing magnetic drain plug. ☐
5. Change transmission oil. ☐
6. Inspect air cleaner and service as required. ☐
7. Check and adjust chains. ☐
8. Check battery electrolyte level. Check and clean connections. ☐
9. Check rear brake pedal adjustment. ☐
10. Inspect brake fluid level and condition. ☐
11. Check brake pad linings and discs for wear. ☐
12. Check clutch adjustment. ☐
13. Clean tank fuel valve screen. ☐
14. Check fuel valve, lines and fittings for leaks. ☐
15. Check oil lines and brake system for leaks. ☐
16. Check rear chain oil level.* ☐
17. Oil the following: Front brake handlever, clutch handlever, throttle control cable, choke control cable, and clutch control cable ☐
18. Check front fork bearing adjustment. ☐
19. Check tightness of all fasteners. ☐
20. Check stabilizer links and engine mounts. ☐
21. Check tire pressure and inspect tread. ☐
22. Check engine low and high idle speed adjustment. ☐
23. Check throttle and choke controls. ☐
24. Check primary chain case vacuum. ☐
25. Check operation of all electrical equipment and switches. ☐
26. Check wheel alignment ☐
27. Check rear fork pivot nut tightness ☐
28. Check rear chain oiler adjustment.* ☐
29. Lubricate rear chain (if required).* ☐
30. Road test. ☐

*If applicable to equipment.

1250 MILE
(2000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

1250 MILE
(2000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

1250 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Inspect brake fluid level and condition. | ☐ |
| 8. Check brake pad linings and discs for wear. | ☐ |
| 9. Check clutch adjustment. | ☐ |
| 10. Check fuel valve, lines and fittings for leaks. | ☐ |
| 11. Check oil lines and brake system for leaks. | ☐ |
| 12. Check rear chain oil level.* | ☐ |
| 13. Check tightness of all fasteners. | ☐ |
| 14. Check stabilizer links & engine mounts. | ☐ |
| 15. Check tire pressure and inspect tread. | ☐ |
| 16. Check engine low and high idle speeds. | ☐ |
| 17. Check throttle and choke controls. | ☐ |
| 18. Check operation of all electrical equipment and switches. | ☐ |
| 19. Check wheel alignment. | ☐ |
| 20. Check rear chain oiler adjustment.* | ☐ |
| 21. Lubricate rear chain.* | ☐ |
| 22. Road test. | ☐ |

*If applicable to equipment.

1250 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Inspect brake fluid level and condition. | ☐ |
| 8. Check brake pad linings and discs for wear. | ☐ |
| 9. Check clutch adjustment. | ☐ |
| 10. Check fuel valve, lines and fittings for leaks. | ☐ |
| 11. Check oil lines and brake system for leaks. | ☐ |
| 12. Check rear chain oil level.* | ☐ |
| 13. Check tightness of all fasteners. | ☐ |
| 14. Check stabilizer links & engine mounts. | ☐ |
| 15. Check tire pressure and inspect tread. | ☐ |
| 16. Check engine low and high idle speeds. | ☐ |
| 17. Check throttle and choke controls. | ☐ |
| 18. Check operation of all electrical equipment and switches. | ☐ |
| 19. Check wheel alignment. | ☐ |
| 20. Check rear chain oiler adjustment.* | ☐ |
| 21. Lubricate rear chain.* | ☐ |
| 22. Road test. | ☐ |

*If applicable to equipment.

2500 MILE
(4000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

2500 MILE
(4000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

2500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|--|--------------------------|
| 1. Change engine oil. | ☐ |
| 2. Replace oil filter. | ☐ |
| 3. Clean tappet oil screen. | ☐ |
| 4. Clean primary chain housing magnetic drain plug. | ☐ |
| 5. Replace spark plugs. | ☐ |
| 6. Inspect air cleaner and service as required. | ☐ |
| 7. Check and adjust chains. | ☐ |
| 8. Check and clean battery connections. | ☐ |
| 9. Check rear brake pedal adjustment. | ☐ |
| 10. Inspect brake fluid level and condition. | ☐ |
| 11. Check brake pad linings and discs for wear. | ☐ |
| 12. Check clutch adjustment. | ☐ |
| 13. Clean tank fuel valve screen. | ☐ |
| 14. Check fuel valve, lines and fittings for leaks. | ☐ |
| 15. Check oil lines and brake system for leaks. | ☐ |
| 16. Check rear chain oil level.* | ☐ |
| 17. Oil the following: Front brake handlever,
throttle control cable, choke control cable,
clutch control cable and handlever. | ☐ |
| 18. Check tightness of all fasteners. | ☐ |
| 19. Check stabilizer links & engine mounts. | ☐ |
| 20. Check tire pressure and inspect tread. | ☐ |
| 21. Check ignition timing. | ☐ |
| 22. Check engine low and high idle speed adjustment. | ☐ |
| 23. Check throttle and choke controls. | ☐ |
| 24. Check operation of all electrical equipment and switches. | ☐ |
| 25. Check wheel alignment | ☐ |
| 26. Check muffler hanger nylon liners for wear.* | ☐ |
| 27. Check rear chain oiler adjustment.* | ☐ |
| 28. Lubricate rear chain.* | ☐ |
| 29. Road test. | ☐ |

*If applicable to equipment.

2500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|--|--------------------------|
| 1. Change engine oil. | ☐ |
| 2. Replace oil filter. | ☐ |
| 3. Clean tappet oil screen. | ☐ |
| 4. Clean primary chain housing magnetic drain plug. | ☐ |
| 5. Replace spark plugs. | ☐ |
| 6. Inspect air cleaner and service as required. | ☐ |
| 7. Check and adjust chains. | ☐ |
| 8. Check and clean battery connections. | ☐ |
| 9. Check rear brake pedal adjustment. | ☐ |
| 10. Inspect brake fluid level and condition. | ☐ |
| 11. Check brake pad linings and discs for wear. | ☐ |
| 12. Check clutch adjustment. | ☐ |
| 13. Clean tank fuel valve screen. | ☐ |
| 14. Check fuel valve, lines and fittings for leaks. | ☐ |
| 15. Check oil lines and brake system for leaks. | ☐ |
| 16. Check rear chain oil level.* | ☐ |
| 17. Oil the following: Front brake handlever,
throttle control cable, choke control cable,
clutch control cable and handlever. | ☐ |
| 18. Check tightness of all fasteners. | ☐ |
| 19. Check stabilizer links & engine mounts. | ☐ |
| 20. Check tire pressure and inspect tread. | ☐ |
| 21. Check ignition timing. | ☐ |
| 22. Check engine low and high idle speed adjustment. | ☐ |
| 23. Check throttle and choke controls. | ☐ |
| 24. Check operation of all electrical equipment and switches. | ☐ |
| 25. Check wheel alignment | ☐ |
| 26. Check muffler hanger nylon liners for wear.* | ☐ |
| 27. Check rear chain oiler adjustment.* | ☐ |
| 28. Lubricate rear chain.* | ☐ |
| 29. Road test. | ☐ |

*If applicable to equipment.

3750 MILE
(6000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

3750 MILE
(6000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

3750 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Check engine oil level. ☐
2. Check transmission oil level. ☐
3. Inspect air cleaner and service as required. ☐
4. Check and adjust chains. ☐
5. Check and clean battery connections. ☐
6. Check rear brake pedal adjustment. ☐
7. Check brake pad linings and discs for wear. ☐
8. Check fuel valve, lines and fittings for leaks. ☐
9. Check oil lines and brake system for leaks. ☐
10. Check rear chain oil level.* ☐
11. Check tightness of all fasteners. ☐
12. Check stabilizer links & engine mounts. ☐
13. Check tire pressure and inspect tread. ☐
14. Check operation of all electrical equipment and switches. ☐
15. Check wheel alignment. ☐
16. Check rear chain oiler adjustment.* ☐
17. Lubricate rear chain.* ☐
18. Road test. ☐

*If applicable to equipment.

3750 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Check engine oil level. ☐
2. Check transmission oil level. ☐
3. Inspect air cleaner and service as required. ☐
4. Check and adjust chains. ☐
5. Check and clean battery connections. ☐
6. Check rear brake pedal adjustment. ☐
7. Check brake pad linings and discs for wear. ☐
8. Check fuel valve, lines and fittings for leaks. ☐
9. Check oil lines and brake system for leaks. ☐
10. Check rear chain oil level.* ☐
11. Check tightness of all fasteners. ☐
12. Check stabilizer links & engine mounts. ☐
13. Check tire pressure and inspect tread. ☐
14. Check operation of all electrical equipment and switches. ☐
15. Check wheel alignment. ☐
16. Check rear chain oiler adjustment.* ☐
17. Lubricate rear chain.* ☐
18. Road test. ☐

*If applicable to equipment.

5000 MILE
(8000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

5000 MILE
(8000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

5000 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Change transmission oil and clean magnetic drain plug. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check battery electrolyte level. Check and clean connections. ☐
10. Check rear brake pedal adjustment. ☐
11. Inspect brake fluid level and condition. ☐
12. Check brake pad linings and discs for wear. ☐
13. Check clutch adjustment. ☐
14. Clean tank fuel valve screen. ☐
15. Check fuel valve, lines and fittings for leaks. ☐
16. Check oil lines and brake system for leaks. ☐
17. Check rear chain oil level.* ☐
18. Oil the following: Front brake handlelever, throttle control cable, choke control cable, clutch control cable and handlelever. ☐
19. Grease the following: Throttle control grip sleeve, speedo. cable, rear brake pedal bushing. ☐
20. Check rear shock rubber bushing condition. ☐
21. Check front fork bearing adjustment. ☐
22. Check tightness of all fasteners. ☐
23. Check stabilizer links & engine mounts. ☐
24. Check tire pressure and inspect tread. ☐
25. Check ignition timing. ☐
26. Check engine low and high idle speed adjustment. ☐
27. Check throttle and choke controls. ☐
28. Check operation of all electrical equipment and switches. ☐
29. Check wheel alignment ☐
30. Check rear fork pivot nut tightness. ☐
31. Check rear brake caliper mounting pin O-rings.* ☐
32. Check muffler hanger nylon liners for wear.* ☐
33. Check rear chain oiler adjustment.* ☐
34. Lubricate rear chain.* ☐
35. Road test. ☐

*If applicable to equipment.

5000 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Change transmission oil and clean magnetic drain plug. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check battery electrolyte level. Check and clean connections. ☐
10. Check rear brake pedal adjustment. ☐
11. Inspect brake fluid level and condition. ☐
12. Check brake pad linings and discs for wear. ☐
13. Check clutch adjustment. ☐
14. Clean tank fuel valve screen. ☐
15. Check fuel valve, lines and fittings for leaks. ☐
16. Check oil lines and brake system for leaks. ☐
17. Check rear chain oil level.* ☐
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19. Grease the following: Throttle control grip sleeve, speedo. cable, rear brake pedal bushing. ☐
20. Check rear shock rubber bushing condition. ☐
21. Check front fork bearing adjustment. ☐
22. Check tightness of all fasteners. ☐
23. Check stabilizer links & engine mounts. ☐
24. Check tire pressure and inspect tread. ☐
25. Check ignition timing. ☐
26. Check engine low and high idle speed adjustment. ☐
27. Check throttle and choke controls. ☐
28. Check operation of all electrical equipment and switches. ☐
29. Check wheel alignment ☐
30. Check rear fork pivot nut tightness. ☐
31. Check rear brake caliper mounting pin O-rings.* ☐
32. Check muffler hanger nylon liners for wear.* ☐
33. Check rear chain oiler adjustment.* ☐
34. Lubricate rear chain.* ☐
35. Road test. ☐

*If applicable to equipment.

6250 MILE
(10000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

6250 MILE
(10000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

6250 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Check brake pad linings and discs for wear. | ☐ |
| 8. Check fuel valve, lines and fittings for leaks. | ☐ |
| 9. Check oil lines and brake system for leaks. | ☐ |
| 10. Check rear chain oil level.* | ☐ |
| 11. Check tightness of all fasteners. | ☐ |
| 12. Check stabilizer links & engine mounts. | ☐ |
| 13. Check tire pressure and inspect tread. | ☐ |
| 14. Check operation of all electrical equipment and switches. | ☐ |
| 15. Check wheel alignment. | ☐ |
| 16. Check rear chain oiler adjustment.* | ☐ |
| 17. Lubricate rear chain.* | ☐ |
| 18. Road test. | ☐ |

*If applicable to equipment.

6250 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Check brake pad linings and discs for wear. | ☐ |
| 8. Check fuel valve, lines and fittings for leaks. | ☐ |
| 9. Check oil lines and brake system for leaks. | ☐ |
| 10. Check rear chain oil level.* | ☐ |
| 11. Check tightness of all fasteners. | ☐ |
| 12. Check stabilizer links & engine mounts. | ☐ |
| 13. Check tire pressure and inspect tread. | ☐ |
| 14. Check operation of all electrical equipment and switches. | ☐ |
| 15. Check wheel alignment. | ☐ |
| 16. Check rear chain oiler adjustment.* | ☐ |
| 17. Lubricate rear chain.* | ☐ |
| 18. Road test. | ☐ |

*If applicable to equipment.

7500 MILE
(12000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

7500 MILE
(12000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ **Mileage** _____

DEALER RECORD

7500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Check transmission oil level. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check and clean battery connections. ☐
10. Check rear brake pedal adjustment. ☐
11. Inspect brake fluid level and condition. ☐
12. Check brake pad linings and discs for wear. ☐
13. Check clutch adjustment. ☐
14. Clean tank fuel valve screen. ☐
15. Check fuel valve, lines and fittings for leaks. ☐
16. Check oil lines and brake system for leaks. ☐
17. Check rear chain oil level.* ☐
18. Oil the following: Front brake handlever, throttle control, choke control cable, clutch control cable and handlever. ☐
19. Check tightness of all fasteners. ☐
20. Check stabilizers links & engine mounts.. ☐
21. Check tire pressure & inspect tread. ☐
22. Check ignition timing. ☐
23. Check engine low and high idle speed adjustment. ☐
24. Check throttle and choke controls. ☐
25. Check operation of all electrical equipment and switches. ☐
26. Check wheel alignment. ☐
27. Check muffler hanger nylon liner for wear.* ☐
28. Check rear chain oiler adjustment.* ☐
29. Lubricate rear chain.* ☐
30. Road test. ☐

*If applicable to equipment.

7500 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Check transmission oil level. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check and clean battery connections. ☐
10. Check rear brake pedal adjustment. ☐
11. Inspect brake fluid level and condition. ☐
12. Check brake pad linings and discs for wear. ☐
13. Check clutch adjustment. ☐
14. Clean tank fuel valve screen. ☐
15. Check fuel valve, lines and fittings for leaks. ☐
16. Check oil lines and brake system for leaks. ☐
17. Check rear chain oil level.* ☐
18. Oil the following: Front brake handlever, throttle control, choke control cable, clutch control cable and handlever. ☐
19. Check tightness of all fasteners. ☐
20. Check stabilizers links & engine mounts.. ☐
21. Check tire pressure & inspect tread. ☐
22. Check ignition timing. ☐
23. Check engine low and high idle speed adjustment. ☐
24. Check throttle and choke controls. ☐
25. Check operation of all electrical equipment and switches. ☐
26. Check wheel alignment. ☐
27. Check muffler hanger nylon liner for wear.* ☐
28. Check rear chain oiler adjustment.* ☐
29. Lubricate rear chain.* ☐
30. Road test. ☐

*If applicable to equipment.

8750 MILE
(14000 km)
MAINTENANCE

Date

Mileage

Dealer (or other) Signature

OWNER RECORD

8750 MILE
(14000 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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

8750 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Check brake pad linings and discs for wear. | ☐ |
| 8. Check fuel valve, lines and fittings for leaks. | ☐ |
| 9. Check oil lines and brake system for leaks. | ☐ |
| 10. Check rear chain oil level.* | ☐ |
| 11. Check tightness of all fasteners. | ☐ |
| 12. Check stabilizer links & engine mounts. | ☐ |
| 13. Check tire pressure and inspect tread. | ☐ |
| 14. Check operation of all electrical equipment and switches. | ☐ |
| 15. Check wheel alignment. | ☐ |
| 16. Check rear chain oiler adjustment.* | ☐ |
| 17. Lubricate rear chain.* | ☐ |
| 18. Road test. | ☐ |

*If applicable to equipment.

8750 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

- | | |
|---|--------------------------|
| 1. Check engine oil level. | ☐ |
| 2. Check transmission oil level. | ☐ |
| 3. Inspect air cleaner and service as required. | ☐ |
| 4. Check and adjust chains. | ☐ |
| 5. Check and clean battery connections. | ☐ |
| 6. Check rear brake pedal adjustment. | ☐ |
| 7. Check brake pad linings and discs for wear. | ☐ |
| 8. Check fuel valve, lines and fittings for leaks. | ☐ |
| 9. Check oil lines and brake system for leaks. | ☐ |
| 10. Check rear chain oil level.* | ☐ |
| 11. Check tightness of all fasteners. | ☐ |
| 12. Check stabilizer links & engine mounts. | ☐ |
| 13. Check tire pressure and inspect tread. | ☐ |
| 14. Check operation of all electrical equipment and switches. | ☐ |
| 15. Check wheel alignment. | ☐ |
| 16. Check rear chain oiler adjustment.* | ☐ |
| 17. Lubricate rear chain.* | ☐ |
| 18. Road test. | ☐ |

*If applicable to equipment.

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. We also authorize you to road test this motorcycle for proper operation.

Owner's Signature

VIN

Date _____ Mileage _____

DEALER RECORD

10,000 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Change transmission oil and clean magnetic drain plug. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check battery electrolyte level. Check and clean connections. ☐
10. Check rear brake pedal adjustment. ☐
11. Inspect brake fluid level and condition. ☐
12. Check brake pad linings and discs for wear. ☐
13. Check clutch adjustment. ☐
14. Clean tank fuel valve screen. ☐
15. Check fuel valve, lines and fittings for leaks. ☐
16. Check oil lines and brake system for leaks. ☐
17. Check rear chain oil level.* ☐
18. Oil the following: Front brake handlever, throttle control cable, choke control cable, clutch control cable and handlever. ☐
19. Grease the following: throttle control grip, speedo. cable, rear brake pedal bushing. ☐
20. Repack wheel bearings with grease. ☐
21. Check front fork bearing adjustment. ☐
22. Check tightness of all fasteners. ☐
23. Check stabilizer links & engine mounts. ☐
24. Check tire pressure and inspect tread. ☐
25. Check ignition timing. ☐
26. Check engine low and high idle speed adjustment. ☐
27. Check throttle and choke controls. ☐
28. Check operation of all electrical equipment and switches. ☐
29. Check wheel alignment. ☐
30. Check rear fork pivot nut tightness. ☐
31. Check rear brake calliper mounting pin O-rings.* ☐
32. Check muffler hanger nylon liners for wear.* ☐
33. Check rear chain oiler adjustment.* ☐
34. Lubricate rear chain.* ☐
35. Road test. ☐

*If applicable to equipment.

10,000 MILE MAINTENANCE

NOTE: Service and material to be paid by owner.

CHECK SERVICE ITEM PERFORMED

1. Change engine oil. ☐
2. Replace oil filter element. ☐
3. Clean tappet oil screen. ☐
4. Clean chain housing magnetic drain plug. ☐
5. Change transmission oil and clean magnetic drain plug. ☐
6. Replace spark plugs. ☐
7. Inspect air cleaner and service as required. ☐
8. Check and adjust chains. ☐
9. Check battery electrolyte level. Check and clean connections. ☐
10. Check rear brake pedal adjustment. ☐
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13. Check clutch adjustment. ☐
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17. Check rear chain oil level.* ☐
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19. Grease the following: throttle control grip, speedo. cable, rear brake pedal bushing. ☐
20. Repack wheel bearings with grease. ☐
21. Check front fork bearing adjustment. ☐
22. Check tightness of all fasteners. ☐
23. Check stabilizer links & engine mounts. ☐
24. Check tire pressure and inspect tread. ☐
25. Check ignition timing. ☐
26. Check engine low and high idle speed adjustment. ☐
27. Check throttle and choke controls. ☐
28. Check operation of all electrical equipment and switches. ☐
29. Check wheel alignment. ☐
30. Check rear fork pivot nut tightness. ☐
31. Check rear brake calliper mounting pin O-rings.* ☐
32. Check muffler hanger nylon liners for wear.* ☐
33. Check rear chain oiler adjustment.* ☐
34. Lubricate rear chain.* ☐
35. Road test. ☐

*If applicable to equipment.

SERVICE LITERATURE

For further maintenance and service information, refer to the publications listed below. Each is available through your Harley-Davidson dealer.

Publication	Part Number
Owner's Maintenance Guide	99952-82
FLT/FXR Service Manual	99483-82
FLT Parts Catalog	99438-82
FXR Parts Catalog	99439-82

	Page No.
Accessories and Cargo	9
Air Cleaner	48
Alternator	54
Battery	53
Brakes	30, 50
Break-In — The First 500 Miles	11
Break-In Maintenance	37
Bulb Chart	55, 56
Capacities	57
Carburetor	48
Chains	45
Chassis Lubrication	47
Check at First 500 Miles	37
Check at First 1250 Miles	38
Choke	29
Circuit Breakers	54
Clutch	50
Clutch Hand Lever	29
Dimensions	57
Electric Starter	27
Engine Lubrication	41
Engine Specifications	57
Engine Stop Switch	28
Fork Bearing Adjustment	51

	Page No.
Front Chain Lubrication	46
Gasoline	59
Gasoline Filler Cap	22, 23
Gasoline Strainer	49
Gasoline Supply Valve	21
Gear Ratios	58
Gear Shifter	30
Hazard Warning Flasher	27
Headlamp	53
Headlamp Dimmer Switch	26
High Beam Indicator Light	26
Horn	27
Hydraulic Tappets	49
Ignition-Light Key Switch	24, 25
Ignition System Specifications	57
Ignition Timing	49
Jiffy Stand	31
King Tour-Pak	34
Oil Pressure Signal Light	31
Operating Recommendations	15
Owner's Identification Card	63

	Page No.
Pre-Riding Check List	10
Rear Chain Lubrication	46, 47
Rear Fork Pivot Shaft	52
Regular Service Intervals	38
Rules of the Road	7
Saddlebags	33
Safe Operating Rules	5
Seat (FXR)	35
Serial Numbers	60
Service Literature	85
Shifting Gears	12
Shocks	32, 51
Spark Plugs	47
Specifications	57
Starting the Engine	11
Steering Lock (FLT)	24
Stopping Distance	61, 62
Stopping the Engine	14
Storage	40

	Page No.
Tappet Oil Filter Screen	43
Throttle Control Grip	28
Tires	51, 58
Transmission Lubrication	44
Transmission Specifications	58
Trip Odometer	31
Turn Signal Switches	26
Voltmeter	32
Warranties	
Motorcycle Limited Warranty	64
Emission Control System Warranty	65
Warranty and Maintenance Responsibilities	63
Warranty/Service Information	66
Weights	57
Wheel Bearings	50
Wheel Alignment	50
Winter Lubrication	43

NOTES

PATENT NOTICE

Harley-Davidson products are manufactured under one or more of the following patents: U.S. Patents — 2986162, 2987934, 2998809, 3116089, 3144631, 3144860, 3226994, 3229792, 3434887, 3559773, 3673359, 3709317, Des. 225,626.

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HARLEY-DAVIDSON MOTOR CO., INC.



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Milwaukee, Wi. 53201



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