## 2005 WIRING DIAGRAMS - TABLE OF CONTENTS

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### HOW-TO-USE THESE WIRING DIAGRAMS

**Page numbering**

The wiring diagrams identified with page numbers "1", "2", etc. are overall diagrams that include all electrical/electronic systems and their associated wiring and connectors. Circuit specific diagrams for the Starting, Charging, Ignition, Horn and Instruments, Lighting, Cruise Control System, Security, Police and Audio System have been added. The circuit specific diagrams only show the components and wiring in the System(s) listed in the page title. The pages containing circuit specific diagrams are numbered "3C", "4C", etc. The "C" indicates circuit specific.

### Troubleshooting

Once a problem has been isolated to a specific system or circuit, the circuit specific diagrams will simplify locating the problem.

**NOTE**

Harness Part No's may be included on some wiring diagrams. Use these numbers for reference purposes only. Always refer to the Parts Catalog When Ordering Wiring Harnesses.
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2005 ALL SPORTSTER DOM. and INT. MODELS, LIGHTING CIRCUIT: SHEET 1 OF 2

IGN LIGHTS

15A

TO HEADLAMP

FRONT TURN SIGNALS

TO REAR LIGHTING

PAGE 2

START RELAY

IGNITION SWITCH

MAXIFUSE

BATTERY

12V

IGNITION

TURN SIGNAL & SECURITY MODULE

BN/GY

LGN/V

2 1

4 3

6 5

8 7

10 9

12 11

V

BN

W/BN

W/V

BK

LT.GN

PK

TN

Wire Color Code Key

BK - Black
BN - Brown
R - Red
O - Orange
Y - Yellow
GN - Green
BE - Blue
V - Violet
GY - Gray
W - White

LT.GN - Light Green
PK - Pink
TN - Tan

Wire color-XX/XX-Stripe color

SOCKET CONNECTOR

PIN CONNECTOR

A side

B side

15A

IGNITION

ACCESSORY

INSTRUMENTS

SPARE

STARTER

BATTERY

30 AMP MAXIFUSE

2005 ALL SPORTSTER DOM. and INT. MODELS, LIGHTING CIRCUIT: SHEET 1 OF 2

6C
2005 ALL CARBURETED SOFTAIL DOM. and INT. MODELS: LIGHTS, FUEL GAUGE & INDICATORS
2005 ALL CARBURETED SOFTAIL DOM. and INT. MODELS, CHARGING & STARTING CIRCUITS
2005 ALL EFI SOFTAIL DOM. and INT. MODELS, MAIN HARNESS: SHEET 3 OF 3
2005 ALL EFI SOFTAIL DOM. and INT. MODELS, IGNITION CIRCUIT
DOMESTIC: FENDER TIP LAMP

HDI: POSITION LAMP

DOMESTIC: ONLY AVAILABLE ON DOMESTIC FLSTC

HDI: ONLY AVAILABLE ON FXST/FXSTB/FXSTS/FLSTC/FLSTF

TAIL LAMP

FXSTD TAIL LAMP

FXST/FXSTB/FXSTS/FLSTC/FLSTF TAIL LAMP

2005 ALL EFI SOFTAIL DOM. and INT. MODELS, LIGHTING CIRCUIT: SHEET 2 OF 2
2005 ALL EFI SOFTAIL DOM. and INT. MODELS, STARTING CIRCUIT
2005 ALL EFI SOFTAIL DOM. and INT. MODELS, CHARGING CIRCUIT
2005 ALL CARBURERED DYNA DOM. and INT. MODELS (Except FXDWG), CHARGING CIRCUIT
2005 ALL CARBURETED DYNA DOM. and INT. MODELS (Except FXDWG), STARTING CIRCUIT
2005 ALL CARBURETED DYNA DOM. and INT. MODELS (Except FXDWG), SECURITY, SHEET 1 OF 2

IGNITION SWITCH LEGEND

DOT INDICATES CONTINUITY WITH RED WIRE IN SWITCH POSITION INDICATED

Wire Color Code Key

- BK - Black
- BN - Brown
- R - Red
- O - Orange
- Y - Yellow
- GN - Green
- BE - Blue
- V - Violet
- GTN - Light Green
- PK - Pink

SOCKET CONNECTOR

PIN CONNECTOR (A side)

PIN CONNECTOR (B side)

OPTIONAL SECURITY SIREN

REAR GROUND STUDS UNDER ELECTRICAL CENTER

HAND CONTROLS, LEFT [A14]

LEFT TURN SWITCH INPUT

START SWITCH INPUT

VSS / SERIAL DATA LINK SECURITY INDICATOR

GROUND

COIL FRONT

CRANK SENSOR (+)

VEHICLE SPD SIG

MAP SIGNAL

DATALINK

TO REAR LIGHTING PAGE 2

40 AMP MAXIFUSE

TO REAR TURN SIGNALS

TO FRONT TURN SIGNALS

STARTER

ENGINE STOP/RUN SWITCH

BLAC (14B)

RUN/STOP SIGNAL Battery +5V SENSOR PWR SENSOR GROUND MODULE GROUND

COIL REAR

CRANK SENSOR (-)

Vehicle SPD SIG

IGNITION CONTROL MODULE

HORN SWITCH

HEADLAMP HI/LO SWITCH

LEFT TURN SWITCH

START RELAY

BATTERY

WIN/BRK

IGNITION

SWITCH

RELAY

STARTER

ENGINE STOP/RUN SWITCH

START SWITCH

STOPLIGHT SWITCH

HEADLAMP HI/LO SWITCH

LEFT TURN SWITCH

RIGHT TURN SWITCH

HAND CONTROLS, RIGHT [A14]
2005 ALL CARBURETED FXDWG DOM. and INT. MODELS, CHARGING CIRCUIT
2005 ALL EFI FXDWG DOM. and INT. MODELS, MAIN HARNESS
2005 ALL EFI FXDWG DOM. and INT. MODELS, CHARGING CIRCUIT

START SOLENOID CONNECTION [128A]

MAXIFUSE 40 A

SEE MAIN HARNESS FOR FURTHER CONNECTIONS

FORWARD GROUND STUD UNDER ELECTRICAL CENTER

REGULATOR

FORWARD GROUND STUD UNDER ELECTRICAL CENTER

[46B] [46A]

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STATOR

STARTER

BATTERY
2005 ALL FLT DOMESTIC and INTERNATIONAL MODELS, IGNITION HARNESS
2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS

HAND CONTROLS
RIGHT
- ENGINE OFF/RUN SWITCH
- START SWITCH
- CRUISE SET/RESUME SWITCH
- PTT & SQ
- HORN SWITCH
- HEADLAMP HI/LO SWITCH
- LEFT DIRECTIONAL SWITCH
- RADIO AUDIO CONTROL

LEFT
- ALL MODELS
- EXCEPT FLHTP
- STOP LAMP SWITCH
- MAIN FUSE BLOCK
- SPARE FUSES

DASH PANEL MOUNTED SWITCHES
- NOT INCLUDED ON FLHTP-FRG
- "CRUISE" & "SPEAKER" SWITCHES
- NOT INCLUDED ON FLHT, FLHTC, OR FLHTC-I W/BN

2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS

2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS

2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS

2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS

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2005 ALL FLT DOM. AND INT. MODELS, HAND CONTROLS, DASH PANEL SWITCHES, & INDICATORS
2005 FLHTPI DOMESTIC MODELS, POLICE EQUIPMENT CIRCUIT: SHEET 1 OF 3
Strobe system option may also be installed on FLHPI and FHLHPEI models.
NOTE: OIL PRESSURE GAUGE AND AIR TEMP GAUGE NOT INCLUDED ON FLHT AND FLHTP.
STARTING CIRCUIT

2005 FLT DOMESTIC and INTERNATIONAL MODELS, STARTING AND CHARGING CIRCUIT: SHEET 1 OF 2
2005 ALL FLHTC ULTRA-I, FLHTC & FLTRI DOMESTIC and INT. MODELS, AUDIO DIAGNOSTIC CIRCUIT 1

**RADIO FUNCTION SWITCH**

- **VIOLET/BLACK**
- **ORANGE/BLACK**
- **PINK/WHITE**
- **VIOLET/BLACK**
- **GRAY/WHITE**
- **BROWN/W**
- **O/BK**
- **PK/W**
- **GY/W**
- **V/BK**
- **BN/W**

**RADIO AUDIO CONTROL**

- **UP**
- **DOWN**
- **MODE**
- **PTT**

**HAND CONTROLS (LEFT & RIGHT REAR PASSENGER CONTROLS)**

- **PK/W**
- **GY/W**
- **V/BK**
- **O/BK**
- **BN/W**

**UP**

**DOWN**

**MODE**

**PTT**

**RADIO PINOUTS**

- **BASE RADIO CONNECTOR (JTA)**
- **BASE RADIO CONNECTOR (JSB)**

**LEFT HAND CONTROLS**

- **R1 (RR CNTL MATRIX)**
- **R2 (RR CNTL MATRIX)**
- **R0 (RR CNTL MATRIX)**
- **C4 (RR CNTL MATRIX)**
- **C3 (RR CNTL MATRIX)**
- **C2 (HANDLEBAR MATRIX)**
- **C1 (HANDLEBAR MATRIX)**
- **C0 (HANDLEBAR MATRIX)**

**RIGHT HAND CONTROLS**

- **R5 (HANDLEBAR MATRIX)**
- **R4 (HANDLEBAR MATRIX)**
- **R3 (HANDLEBAR MATRIX)**

**TO ULTRA RADIO**

**UP**

**DOWN**

**MODE**

**PTT**

**LEFT & RIGHT REAR SPEAKER & HEADSET CONNECTORS**

- **LFT FRT SPEAKER (+)**
- **LFT FRT SPEAKER ( )**
- **RT FRT SPEAKER (+)**
- **RT FRT SPEAKER ( )**
- **RT RR HEADSET (+)**
- **RT RR HEADSET ( )**
- **LFT RR SPEAKER (+)**
- **LFT RR SPEAKER ( )**
- **RR HEADSET COMMON**
- **RR MIC COMMON**
- **RR MIC SHIELD**
- **RR MIC**
- **FRT MIC COMMON**
- **FRT MIC**
- **FRT MIC SHIELD**

**PUSH TO TALK & SQUELCH**

- **(ULTRA MODELS ONLY)**

**HAND CONTROLS LEFT**

- **7**
- **8**
- **9**
- **10**
- **11**
- **12**

**HAND CONTROLS RIGHT**

- **ALL MODELS EXCEPT FLHTP-FRG**

**RADIO CONNECTOR (JTA)**

- **RR CONTROL MATRIX**
- **C3**
- **C4**

**RADIO CONNECTOR (JSB)**

- **ULTRA MODELS ONLY**

**SWITCH POSITION**

- **BROWN/WHITE**
- **PINK/WHITE**
- **VIOLET/BLACK**
- **GRAY/WHITE**

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**2005 ALL FLHTC ULTRA-I, FLHTC & FLTRI DOMESTIC and INT. MODELS, AUDIO DIAGNOSTIC CIRCUIT 1**

101C
**2005 ALL FLHTC ULTRA-I, FLHTC & FLTRI DOMESTIC and INT. MODELS, AUDIO DIAGNOSTIC CIRCUIT 3: SHEET 1 OF 2**

**Wire Color Code Key**

- **BK** - Black
- **BN** - Brown
- **R** - Red
- **O** - Orange
- **Y** - Yellow
- **GN** - Green
- **BK/GN** - Light Green
- **BK/GRY** - Wire color-BK/GRY-Stripe color
- **PK** - Pink
- **TN** - Tan
- **LT.GN** - Light Green
- **V** - Violet
- **GY** - Gray
- **W** - White
- **RED** - Red
- **RDO** - Red/Orange
- **R/BK** - Red/Black
- **A** - Black
- **B** - Brown
- **C** - Red
- **D** - Yellow

**Socket Connector (B side)**

**Pin Connector (A side)**

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**Diagram Details**

- **Relay Ground Stud (Located in Front of Battery)**
- **BK/GN**
- **RR/O**
- **R/GY**
- **O/GN**
- **O/BE**
- **R**
- **4B 4A**
- **3B 3A**
- **RDO PWR**
- **RDO MEM**
- **85**
- **86**
- **30**
- **87**
- **A**
- **B**
- **C**
- **D**
- **[33A]**
- **[33B-DOM]**
- **IGNITION SWITCH LEGEND (DOM)**
  - **SWITCH POSITION**
  - **"X" INDICATES CONTINUITY BETWEEN LEAD WIRES IN POSITION INDICATED**
  - **RED RED/GRAY RED/BLACK**
  - **LOCK**
  - **OFF**
  - **IGN**
  - **ACC**

**Ignition Switch Legend (HDI)**

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**Description:**

- **START RELAY**
- **GROUND STUD**
- **40A MAXI-FUSE**
- **BATTERY**
- **STATER TO INTERCONNECT HARNESS [1A]**
- **TO INTERCONNECT HARNESS [13B]**
- **FROM MAIN HARNESS [33A]**
- **TO INTERCONNECT HARNESS [13B]**
- **RED**
- **RDO**
- **O/DN**
- **A**
- **B**
- **C**
- **D**
- **[33B]**
- **[33D]**
- **[33C]**

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**Interconnect Harnesses**

- **[1A]**
- **[15B]**
- **[1B]**
- **[15A]**
- **[15C]**
- **[15D]**

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**105C**
2005 ALL FLT, DOMESTIC and INTERNATIONAL MODELS, SECURITY CIRCUIT: SHEET 1 OF 3
Wire Color Code Key

- BK - Black
- BN - Brown
- R - Red
- O - Orange
- Y - Yellow
- GN - Green
- BE - Blue
- V - Violet
- GY - Gray
- W - White
- LT.GN - Light Green
- PK - Pink
- TN - Tan

Socket Connector

Pin Connector

(A side)

Pin Connector

(B side)

2005 ALL FLHR/II/CI DOMESTIC AND INTERNATIONAL MODELS, LIGHTING CIRCUIT: SHEET 2 OF 2
2005 ALL FLHPI, FLHPEI MODELS, IGN. & FUEL INJECTION, CHARGING SYSTEM & SPEEDO. & TACH: SHEET 3 OF 3

VOLTAGE REGULATOR

MAXI-FUSE

POWERTRAIN GROUND

STARTER

STATOR

SPEEDOMETER

TACHOMETER

TO MAIN HARNESS

FUEL INJECTED VEHICLES

EFI OVERLAY: 70233-04

ELECTRONIC CONTROL MODULE

CHARGING SYSTEM

2005 ALL FLHPI, FLHPEI MODELS, IGN. & FUEL INJECTION, CHARGING SYSTEM & SPEEDO. & TACH: SHEET 3 OF 3
2005 VRSC MODEL, CHARGING CIRCUIT
2005 VRSC MODEL, SECURITY CIRCUIT