



# INSTRUCTIONS

-J00524

REV. 7-1-95

Kit Number 91860-88B

## SELF-CANCELING TURN SIGNAL KIT

### General

This kit is designed for use on the following motorcycles:

MODEL	MODEL YEARS
FLTs	1980 - 1988 (Includes FLHS 1987 - 1988)
FLHs	1972 - 1984
FLHS's	1981 - 1984
Softails	1984 - 1990
FXWGs	1980 - 1986
XLs	1975 - 1990
FXEs	1975 - 1985
FXRs	1982 - 1990
FXRTs	1983 1/2 - 1990

#### NOTE

*This kit cannot be used on 1986 models that have the stock "latching type" turn signal switches.*

This kit contains the following components:

QTY	DESCRIPTION
3	Ring terminal
1	Connector, male-to-male, spade, insulated
2	Terminal, spade female
2	Cable strap
1	Module, turn signal
1	Wire harness
6	Connector, Scotchlok*
1	Vinyl conduit, 3/8 in. inside diameter x 34 in. long

### Installation

#### General (All Models)

See Figure 1. The module connections are identical for all models.

The installation on all models is similar; but, refer to the specific installation procedure that covers the model on which this kit is being installed. After the installation has been completed, refer to "Operation Instructions."

#### NOTE

*The wire lengths of the harness leads and the length of the vinyl conduit may be cut to the needed length for each specific installation. To allow slipping the wires into the conduit, it is recommended that all wires be cut to their needed lengths before final connections are made.*

#### CAUTION

**To avoid possibility of a short circuit, disconnect battery (negative cable first) before performing any of the following steps.**

#### WARNING

**Module is designed to operate two lights and one indicator at one time. More than two lights will create an overload, causing the flashes to occur too fast to be seen. Making a turn with a constantly lit turn signal could confuse other motorists. Such confusion could result in an accident and personal injury.**

#### FLT Models (1980 - 1988)

1. Remove outer fairing on FLHTs. See applicable Service Manual for detailed instructions. FLT's mounting location and flasher are accessible without removing headlight housing.
2. Connect wire harness to module at 10 pin/socket connector housings.

#### NOTE

*On 1987 - 1988 FLHS models, mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in module.*

3. Use cable straps to secure turn signal module to right fork tube just above rubber fork stop. Ground black wire to front fork bracket with ring terminal or spade connector on later models.
4. Route wires from module up to area of four-way flasher switch. Wires must be routed between top triple clamp and flasher bracket, not over the top of flasher bracket.
5. See Figure 2 (shows stock signal light circuit) and Figure 3 (shows kit connected in signal light circuit). Locate pink wire that connects to four-way flasher switch. Cut wire near switch. Connect with Scotchlok\*, white/violet striped wire from module to pink wire going to four-way flasher switch. Connect with Scotchlok\*, violet wire from module to remaining end of pink wire leading into main wiring harness and connected to left signal light switch.
6. Locate tan wire leading to four-way flasher switch. Cut wire near switch. Connect with Scotchlok\*, white/brown striped wire from module to tan wire leading to four way flasher switch. Connect with Scotchlok\*, brown wire from module to remaining end of tan wire going to main wiring harness and connected to right signal light switch.
7. Locate directional flasher unit. Disconnect wires to unit; cut off 90 degree flag terminals and terminate wires with female spade terminals. Obtain male/male spade connector from kit, and connect flasher leads together with this connector.

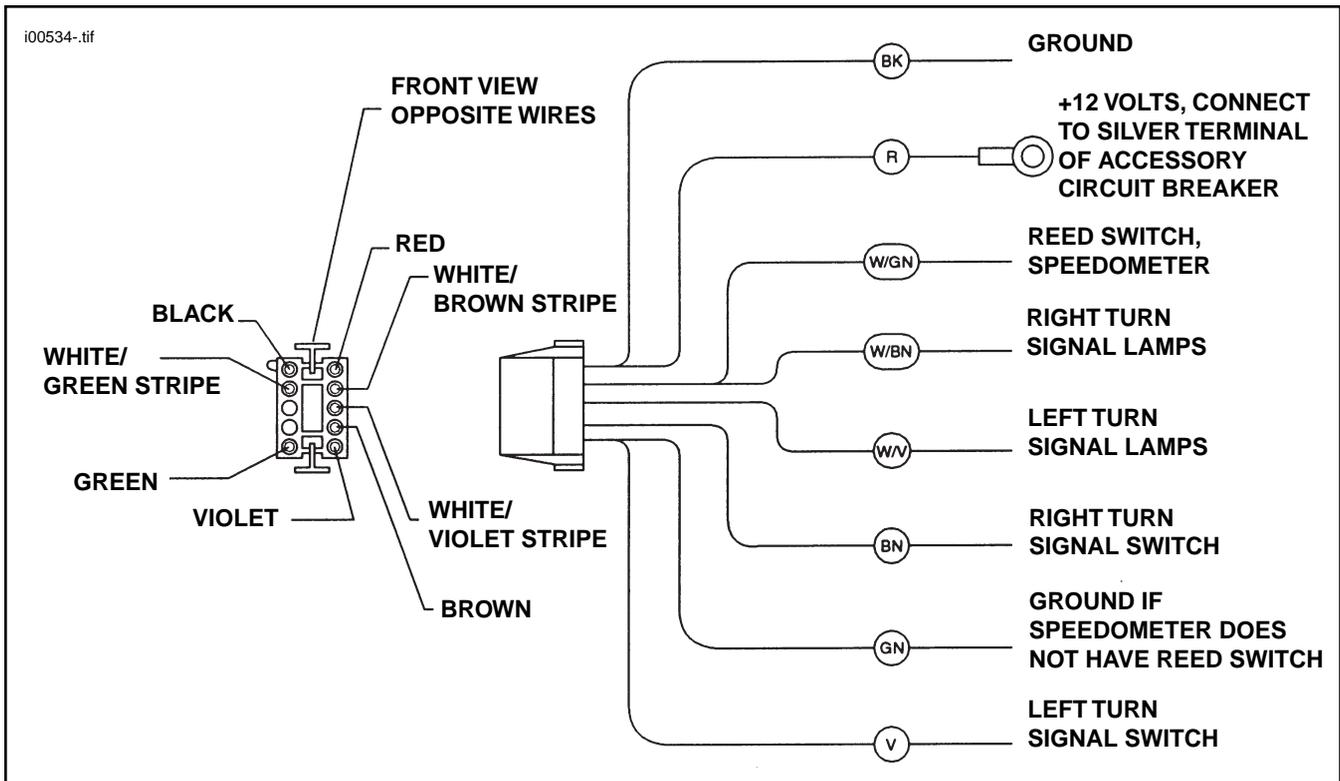


Figure 1. Required Connection For Turn Signal Canceler, All Models

8. Connect ring terminal on red wire lead from signal module to silver (output) terminal on the accessory circuit breaker. (On FLT/C and FLHS models, you must remove instrument panel to locate accessory circuit breaker.)
9. On 1986 and later models, locate white/green striped wire from reed switch (under speedometer assembly) and connect with Scotchlok\* to white/green striped wire from signal module.
10. On 1985 and earlier models, the green wire must be grounded. Terminate green wire, from module, with ring terminal from kit. Fasten ring terminal to vehicle at bolt in top front fork bracket.
11. Cut off extra (unused) wire as close to rear of module connector as possible. On 1985 and earlier, it will be the green and white striped wire. On 1986 and later, it will be the green wire.

**NOTE**

With the HAZARD switch in the "HAZARD" position, the stock hazard flasher will provide the pulses for the 4-way lamp operation. With HAZARD switch in the "OFF" position, the turn signal module will control the turn signals and provide 4-way or hazard light operation. To activate the module-controlled hazard lights, simultaneously press and hold the right and left turn signal switches for 1 1/2 seconds. A second simultaneous depressing of the right and left turn signal switches will cancel the hazard lights.

**FLH Models (1972 - 1984)**

1. Mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in module. Perform Steps 2 and 4 of the FLT models procedure.

2. See Figure 2 (shows stock signal light circuit) and Figure 3 (shows kit connected in signal light circuit).

**NOTE**

The FLH wires have different color coding than that shown in Figures 2 and 3. Make certain you are connecting the correct wires as directed in the following steps:

3. Locate violet wire from left signal light switch and brown wire from right signal light switch at hazard flasher switch. Cut violet and brown wires about 2-3 in. from hazard switch. Connect with Scotchlok\*, white/violet striped wire from module to violet wire going to hazard flasher switch.
4. Connect with Scotchlok\*, violet wire from module to remaining end of violet wire connected to left signal light switch.
5. Connect with Scotchlok\*, white/brown striped wire, from module, to brown wire leading to 4-way flasher switch. Connect with Scotchlok\*, brown wire, from module, to remaining end of brown wire connected to right signal light switch.
6. Perform Steps 7 and 8 of the FLT models procedure.
7. Terminate green wire, from module, with ring terminal from kit. Fasten ring terminal to a suitable ground.
8. Cut off extra (unused) white/green module wire as close to rear of 10-place module connector as possible.

**FLHS Models (1981 - 1984)**

1. Mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in module. Connect wire harness to module at 10 pin/socket connector housings.

Steps 2-8 continued on page 5 of 10

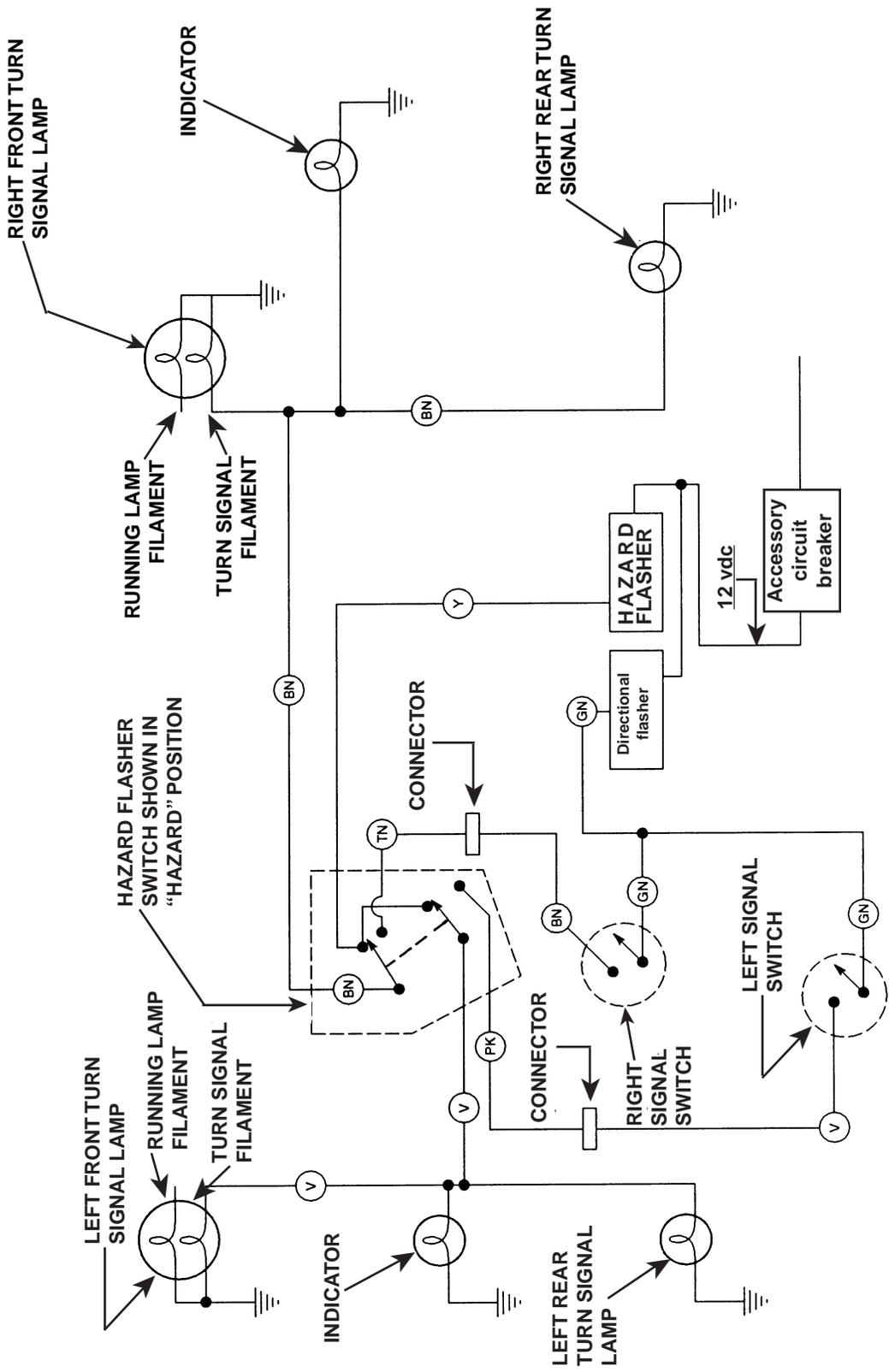


Figure 2. Stock Turn Signal Circuit with Hazard Switch and Flasher

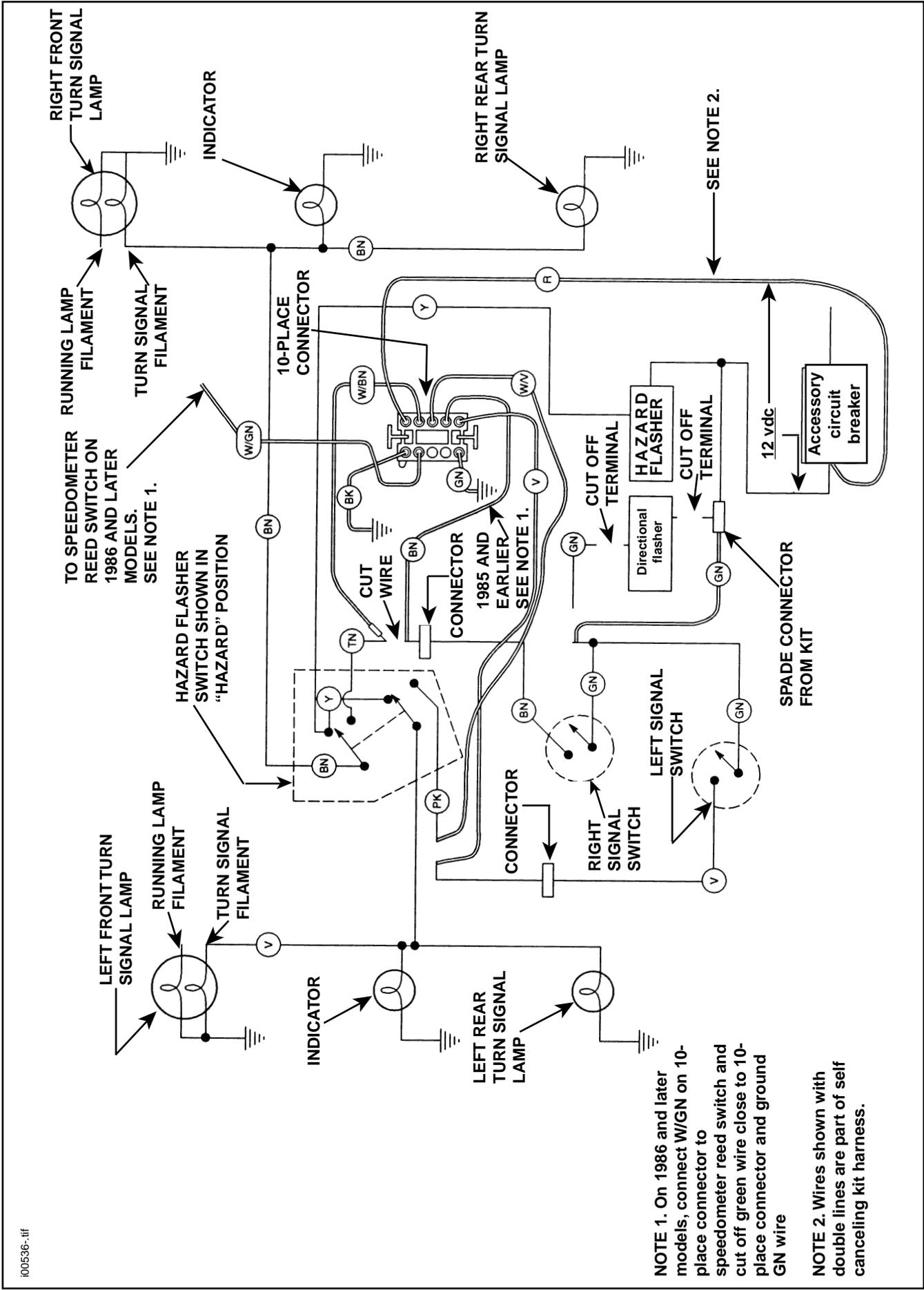


Figure 3. Turn Signal Circuit (Figure 2.) with Kit Harness Installed

2. See Figure 4 (shows stock signal light circuit) and Figure 5 (shows kit connected in signal light circuit).
  3. Locate violet wire from left signal light switch and brown wire from right signal light switch at main terminal block inside the headlamp housing. Cut violet and brown wires about 2-3 in. from main terminal block. Connect with Scotchlok\*, white/violet striped wire from module to violet wire going to main terminal block.
  4. Connect with Scotchlok\*, violet wire from module to remaining end of violet wire connected to left signal light switch.
  5. Connect with Scotchlok\*, white/brown striped wire, from module, to brown wire connected to main terminal block. Connect with Scotchlok\*, brown wire, from module, to remaining end of brown wire connected to right signal light switch.
  6. Perform Steps 7 and 8 of the FLT models procedure
  7. Terminate green wire, from module, with ring terminal from kit. Fasten ring terminal to a suitable ground.
  8. Cut off extra (unused) white/green module wire as close to rear of 10-place module connector as possible.
10. Cut the violet wire about 2-3 in. from the 12-place connector. Connect with Scotchlok\*, violet wire from module to end of violet wire connected to left signal light switch. Connect with Scotchlok\*, white/violet striped wire from module to violet wire connected to 12-place connector.
  11. Find the brown wire connected to the right signal switch. The brown wire enters the headlamp housing through a right angle plastic bushing on the left side of the headlamp housing and is connected to the pin or male half of a 12-place connector.
  12. Cut the brown wire about 2-3 in. from the 12-place connector. Connect with Scotchlok\*, brown wire from module to end of brown wire connected to right signal light switch. Connect with Scotchlok\*, white/brown striped wire from module to brown wire connected to 12-place connector.
  13. Locate directional flasher unit at bottom of headlamp housing. Disconnect wires to unit; cut off 90 degree flag terminals and terminate wires with female spade terminals. Obtain male/male spade connector from kit, and connect flasher leads together with this connector.
  14. Locate accessory circuit breaker on motorcycle. Route the red wire from the module to the accessory circuit breaker and connect ring terminal to silver (output) terminal on the accessory circuit breaker.
  15. Cut off extra (unused) white/green module wire as close to rear of 10-place module connector as possible.

### **XLs (1975 - 1990), FXEs (1975 - 1985), and FXRs (1982 - 1990) - Except FXLRs and FXRTs**

1. Mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in module.
2. Connect wire harness to module at 10 pin/socket connector housings.
3. See Figure 4 (shows stock signal light circuit) and Figure 5 (shows kit connected in signal light circuit).
4. Locate an electrical ground location to which a #10 ring terminal can be connected. Route the black and green wires in the canceler harness to this ground location and, if required, cut the wires to the correct length.
5. Terminate black and green wire, from module, with ring terminals from kit and connect to ground.
6. Remove the headlamp from the headlamp housing. See Figure 6. Locate the grommet (bushing) that secures the main wire harness at back of headlamp housing. With a pliers, gently compress the bushing and push the bushing out to allow the white/violet, white/brown, violet and brown wires from the module to be "threaded" through the bushing and into the headlamp housing.
7. Install conduit over these wires and cut to length so that the conduit will butt up against the bushing after the wires are installed through the headlamp housing.
8. Install wires through bushing and into headlamp housing. Reinstall the bushing into the headlamp housing.
9. Find the violet wire connected to the left signal switch. The violet wire enters the headlamp housing through a right angle plastic bushing on the left side of the headlamp housing and is connected to the pin or male half of a 12-place connector.

### **Softails (1984 - 1990), FXWGs (1980 - 1986), and FXLRs (1987 - 1990)**

1. Mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in the module.
2. Connect wire harness to module at 10 pin/socket connector housings.
3. See Figure 4 (shows stock signal light circuit) and Figure 5 (shows kit connected in signal light circuit).
4. Locate an electrical ground location to which a #10 ring terminal can be connected. Route the black and green wires in the canceler harness to this ground location and, if required, cut the wires to the correct length.
5. Terminate black and green wire, from module, with ring terminals from kit and connect to ground.
6. Locate the connectors to which the handlebar switch harnesses are connected. Route the white/violet and violet wire on the module harness to the left handlebar connector.
7. Find the violet wire connected to the left signal switch.
8. Cut the violet wire about 2-3 in. from the connector. Connect with Scotchlok\*, violet wire from module to end of violet wire connected to left signal light switch. Connect with Scotchlok\*, white/violet striped wire from module to violet wire connected to connector.
9. Route the white/brown and brown wires on the module harness to the right handlebar connector.

*Steps 10-14 continued on page 9 of 10*

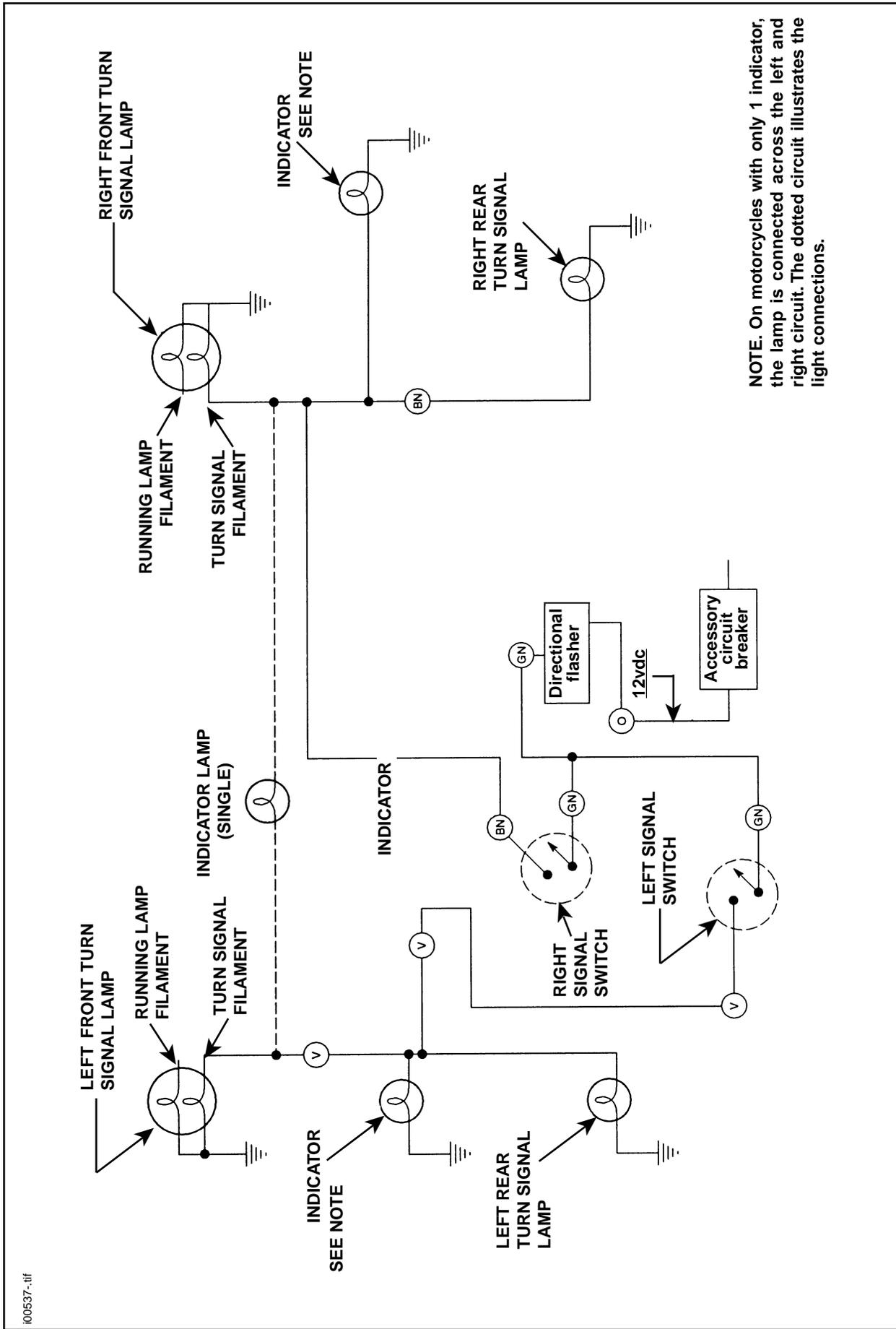


Figure 4. Stock Turn Signal Circuit (No Hazard Flasher)

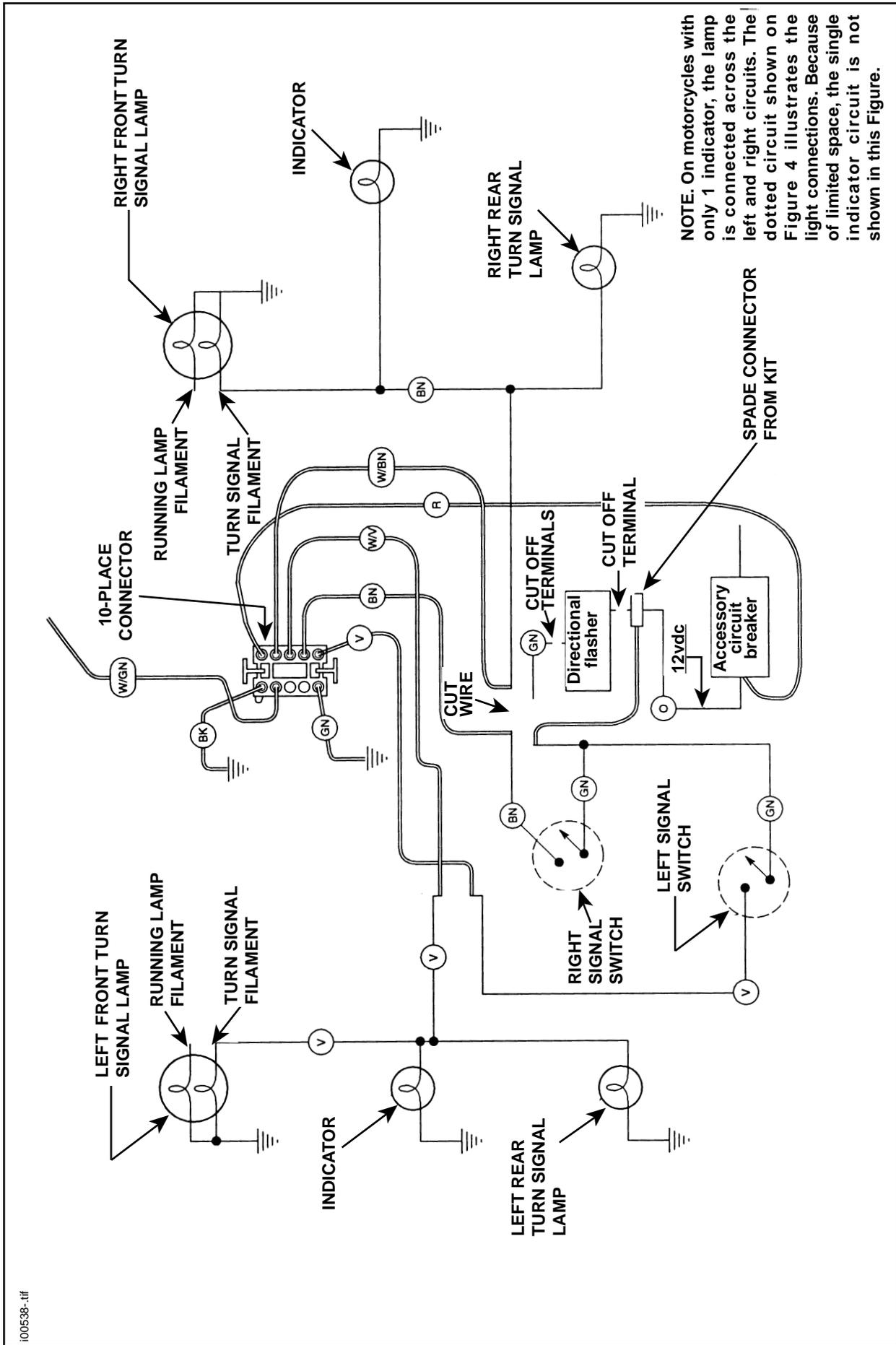


Figure 5. Stock Turn Signal Circuit (Figure 4.) With Kit Harness Connected

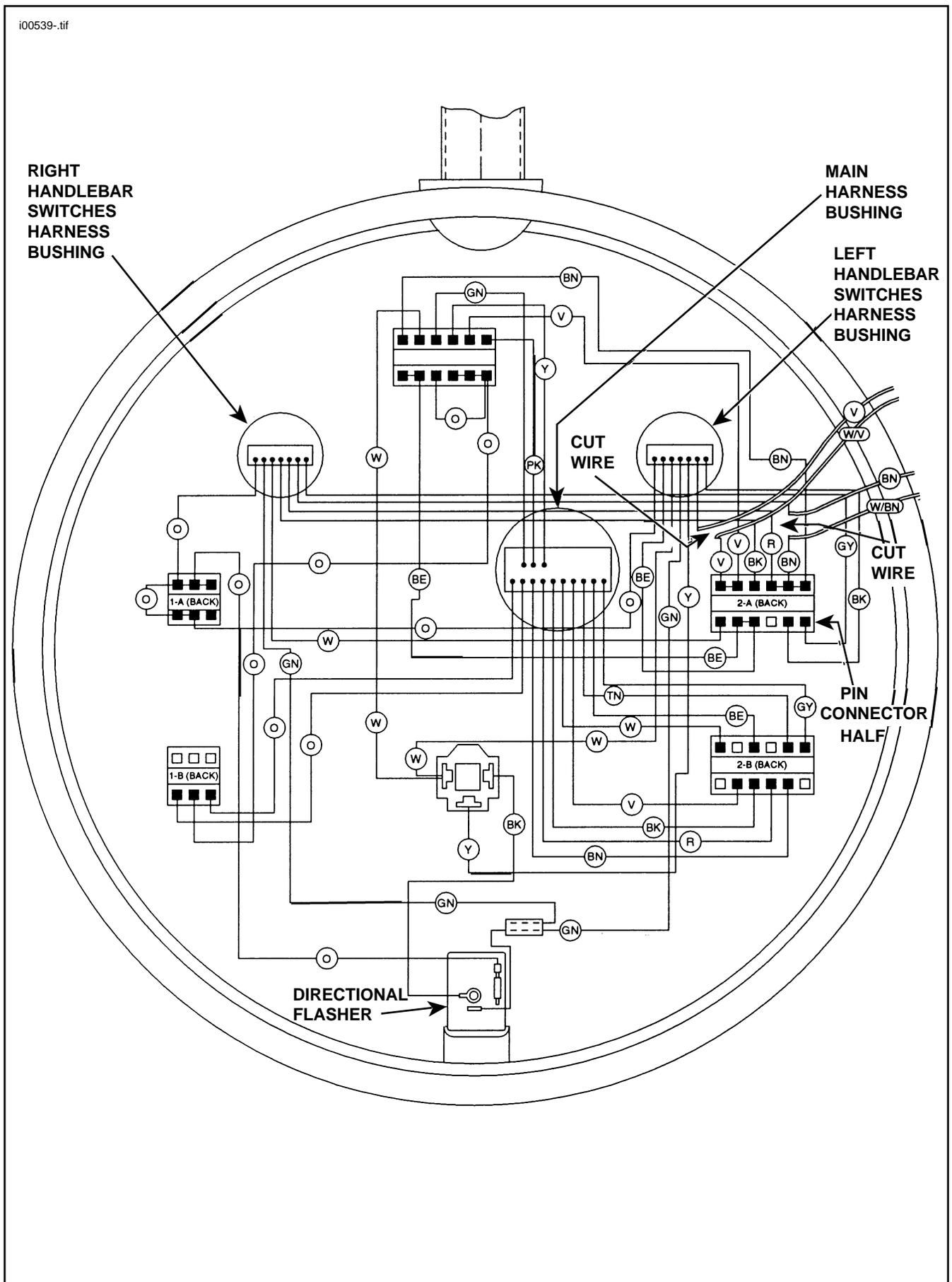


Figure 6. Module Connections Inside Headlamp Housing On XL's, FXE's (Except FXLR & FXRT)

10. Find the brown wire connected to the right signal switch.
11. Cut the brown wire about 2-3 in. from the connector. Connect with Scotchlok\*, brown wire from module to end of brown wire connected to right signal light switch. Connect with Scotchlok\*, white/brown striped wire from module to brown wire connected to connector.
12. Locate directional flasher unit. The flasher is located under the instrument panel cover on Softail and FXWG models and under fuel tank on FXLR. Disconnect wires to unit; cut off 90 degree flag terminals and terminate wires with female spade terminals. Obtain male/male spade connector from kit, and connect flasher leads together with this connector.
13. Locate accessory circuit breaker on motorcycle. Route the red wire from the module to the accessory circuit breaker and connect ring terminal to silver (output) terminal on the accessory circuit breaker.
14. Cut off (unused) white/green module wire as close to rear of 10-place module connector as possible.
11. Terminate black wire, from module, with ring terminal from kit and connect to ground.
12. Locate directional flasher unit in fairing. Disconnect wires to unit; cut off 90 degree flag terminals and terminate wires with female spade terminals. Obtain male/male spade connector from kit, and connect flasher leads together with this connector.
13. Locate accessory circuit breaker on motorcycle. Route the red wire from the module to the accessory circuit breaker and connect to silver (output) terminal on the accessory circuit breaker.

## Operation Instructions

### General

On motorcycles without a reed switch in the speedometer, the turn signal module will cancel the signal lights after approximately 10 seconds of operation. If motorcycle has a speedometer with reed switch: (1) the signal light "ON" time will vary from 5 to 12 seconds, depending on vehicle speed; (2) if vehicle is not moving, the signal lights will flash indefinitely.

### Turn Signal Operation

1. To signal for a right turn, press and release the right turn signal switch.
2. To cancel signal, press and release the right turn signal switch a second time.
3. Left turn signals are activated by pressing the left turn signal switch.
4. If left turn signals are flashing and the right side turn signal switch is pressed, the module will cancel the left turn signals and begin flashing right turn signals. The module will always respond to the last switch input.

#### NOTE

*If turn signal switch is depressed and held, the turn signal will flash indefinitely. If the rider prefers a longer time or distance (with turn signals "ON"), the turn signal switch can be held in longer and released closer to the intersection. For a shorter time or distance (with turn signals "ON"), press the switch a second time to cancel the turn signals.*

### Hazard Light (4-Way) Operation

1. To activate the module-controlled hazard lights, simultaneously press and hold the right and left turn signal switches for 1 1/2 seconds.
2. A second simultaneous depressing of the right and left turn signal switches will cancel the hazard lights.

#### NOTES

- *The turn indicator light, on models that have only one turn indicator light, will not flash while the hazard flasher is operating.*
- *Motorcycles that are equipped with stock hazard flasher and circuitry will have the following two methods of activating the hazard or 4-way lights:*
  - a. *Place HAZARD switch in "HAZARD" position.*
  - b. *See Steps 1 and 2 above.*

## FXRT Models (1983 1/2 - 1990)

1. Remove instrument panel from fairing following instructions given in applicable Service Manual.
2. Mount the canceler module in a suitable location using cable straps or a bolt through mounting hole in module.
3. Connect wire harness to module at 10 pin/socket connector housings.
4. See Figure 4 (shows stock signal light circuit) and Figure 5 (shows kit connected in signal light circuit).
5. See Figure 7. Locate violet wire from left signal light switch and brown wire from right signal light switch at 12-place pin connector half. The 12-place connector is located in front of the steering head. Cut violet and brown wires about 1-2 in. from pin connector half. Connect with Scotchlok\*, white/violet striped wire from module to violet wire going to pin connector half.
6. Connect with Scotchlok\*, violet wire from module to remaining end of violet wire connected to left signal light switch.
7. Connect with Scotchlok\*, white/brown striped wire, from module, to brown wire leading to pin connector half. Connect with Scotchlok\*, brown wire, from module, to remaining end of brown wire connected to right signal light switch.8. On 1986 and later models, locate white/green striped wire connected to radio. (The white/green striped wire was connected to speedometer reed switch.) Connect with Scotchlok\* to white/green striped wire from signal module.
8. On 1986 and later models locate white/green striped wire connected to radio. (The white/green striped wire was connected to speedometer reed switch). Connect with Scotchlok® to white/green striped wire from signal module.
9. On 1985 and earlier models, the green wire must be grounded. Terminate green wire, from module, with ring terminal from kit. Fasten ring terminal to a vehicle electrical ground.
10. Cut off extra (unused) wire as close to rear of module connector as possible. On 1985 and earlier, it will be the green and white striped wire. On 1986 and later, it will be the green wire.

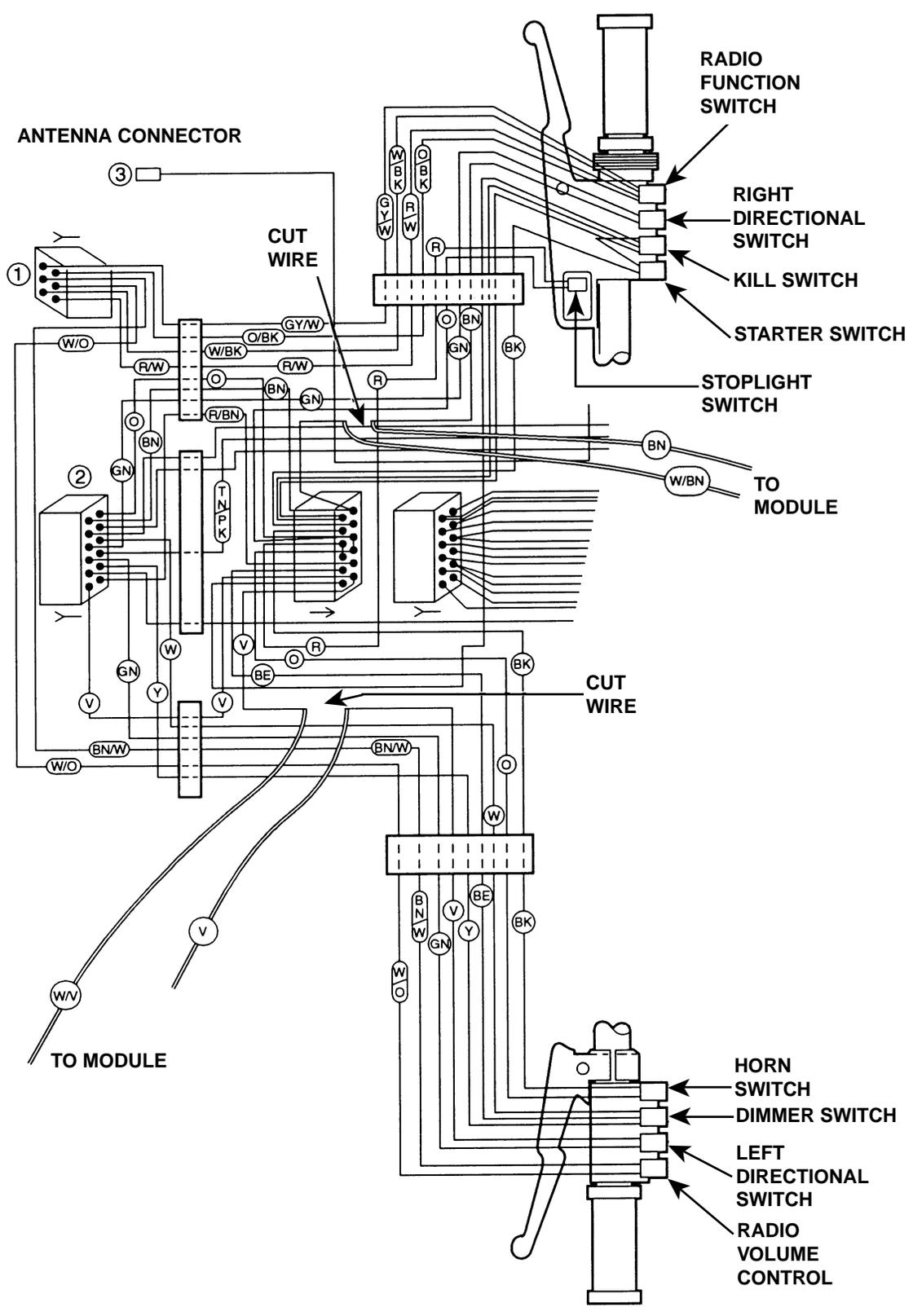


Figure 7. Module Connections For FXRT Models