

- 4. Cover the mounting bracket with a shop cloth or hand to protect the Tour-Pak in Step 5.
- 5. Push the seat forward. Raise the rear of the seat until it clears the top of the Tour-Pak.
- 6. Pull the seat toward the rear and disengage the locating tongue from the slot in the frame backbone. Remove the seat.
- 7. Install the seat and push it down and toward the front and engage the locating tongue into the slot in the frame backbone.
- 8. Tighten the Phillips screw securely.
- 9. Pull up on the front of the seat to make sure the seats are secured in place.
- 10. Move the passenger backrest back into position and close the Tour-Pak cover.

1997-1998 FLTR models

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the left saddlebag as described in this chapter.
- 3. Remove the bolt and washer securing the passenger seat strap and saddlebag front mounting bracket to the frame tube cover on each side.
- 4. Remove the Phillips screw securing the rear of the seat to the fender.
- 5. Pull the seat toward the rear and disengage the locating tongue from the slot in the frame backbone. Remove the seat.

6. Install the seat and push it down and toward the front and engage the locating tongue into the slot in the frame backbone. Tighten the Phillips screw securely.

WARNING

If the seat retention nut(s) is damaged, replace it as described in this section.

- 7. Install the bolt and washer securing the passenger seat strap to the frame tube cover on each side. Tighten the bolts securely. Do not overtighten.
- 8. Pull up on the front of the seat to make sure the seat is secured in place.
- 9. Install the left saddlebag as described in this chapter.

Seat Retention Nut Replacement

1997-1998 FLTR and FLHRC models

- 1. Slide the retention nut over the tapered end of the cable strap so the larger outer diameter of the nut rests on the cable strap eyelet.
- 2. Working under the rear fender, feed the cable strap up and through the hole in the fender.
- 3. With the tab on the retention nut seated in the notch of the fender hole, pull up on the cable strap to hold the nut snugly against the underside of the rear fender.
- 4. From the side opposite the tab, slide the retention washer and lock the location of the retention nut.

FRONT FENDER

Removal/Installation

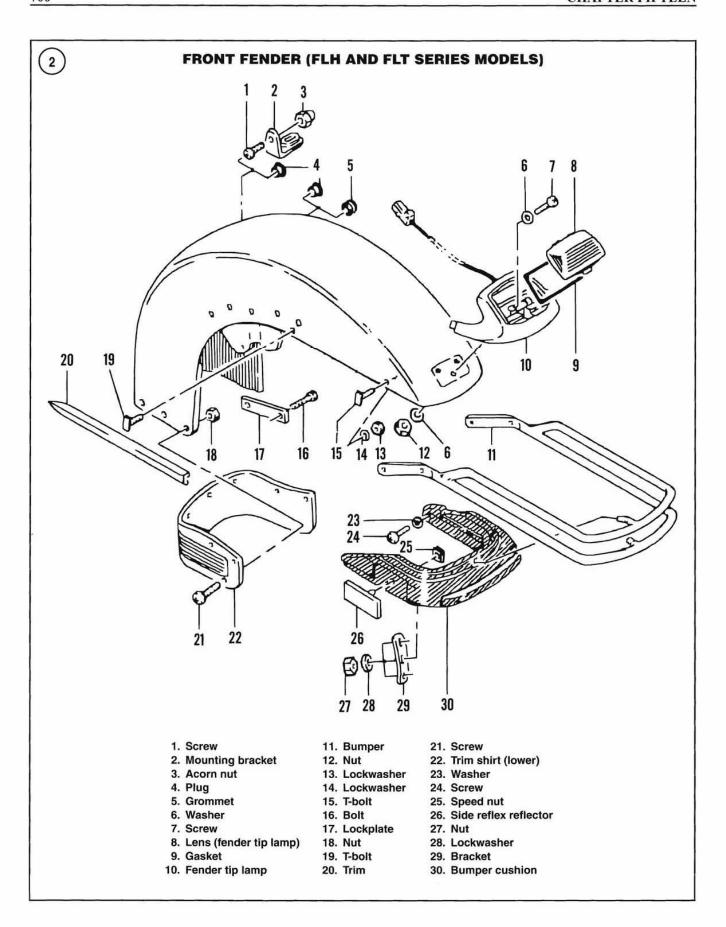
FXR series, FXWG, FXSB and FXEF models

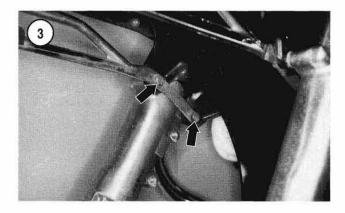
Refer to Figure 1.

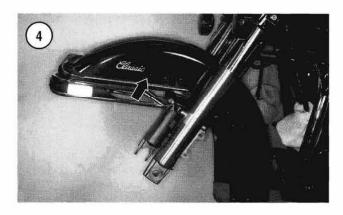
- 1. Support the motorcycle with the front wheel off the ground. Refer to *Motorcycle Stands* in Chapter Ten.
- 2. Disconnect the speedometer cable from the front hub and move it out of the way.
- 3. Remove the front wheel as described in Chapter Ten.
- 4. Remove the bolt, lockwasher and nut securing the front fender to the fork slider.
- 5. Be careful not to scratch the paint and remove the front fender from the fork sliders.
- 6. Install by reversing these removal steps. Securely tighten the bolts and nuts.

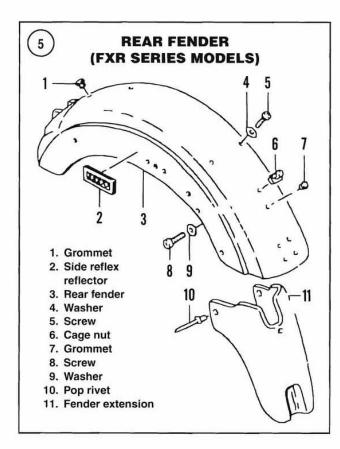
FLH and FLT series models

Refer to Figure 2.









- 1. Support the motorcycle with the front wheel off the ground. Refer to *Motorcycle Stands* in Chapter Ten.
- 2. Disconnect the speedometer cable from the front hub and move it out of the way.
- 3. Disconnect the negative battery cable from the battery.
- 4A. On all FLH series models, perform the following:
 - Remove the headlight unit as described in Chapter Nine.
 - Within the headlight case, locate and disconnect the 2-pin front fender tip lamp electrical connector (one black and one orange/white wire).
 - c. Carefully pull the electrical connector free from the headlight case.
- 4B. On all FLT series models, perform the following:
 - a. Remove the outer portion of the front fairing as described in this chapter.
 - On the left side of the inner front fairing, locate and disconnect the 2-pin front fender tip lamp electrical connector.
 - c. Carefully pull the electrical connector free from the inner front fairing.
- 5. Carefully cut the cable strap securing the fender tip lamp wire to the front brake line.
- 6. Remove the front wheel as described in Chapter Ten.
- 7. Straighten the locking tabs away from the front fender mounting bolts (**Figure 3**).
- 8. Remove the mounting bolts and lockplates securing the front fender to the fork sliders.
- 9. Be careful not to scratch the paint and remove the front fender (**Figure 4**) from the fork sliders.
- 10. Install by reversing these removal steps while noting the following:
 - a. Install the lockplates and tighten the bolts securely.
 - b. Bend the locking tabs up against the bolt heads.

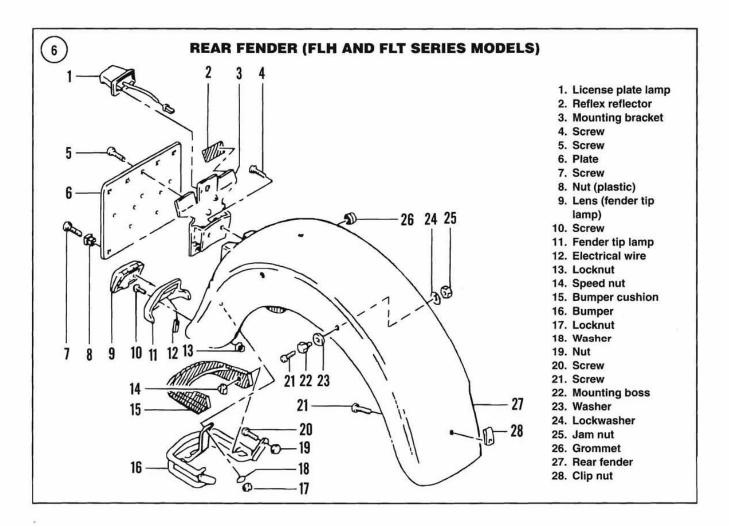
REAR FENDER

Removal/Installation

FXR series models

Refer to Figure 5.

- 1. Support the motorcycle on a swing arm stand with the rear wheel off the ground by a minimum of 4 in.
- 2. Disconnect the negative battery cable from the battery.
- 3. Remove the seat and left side cover.
- 4. Disconnect the taillight terminal block from the mounting plate. Then disconnect two gray wires from the terminal block. Use the pin terminal tool (part No. HD-97363-71) or an equivalent.
- 5. Place wooden blocks under the rear wheel.

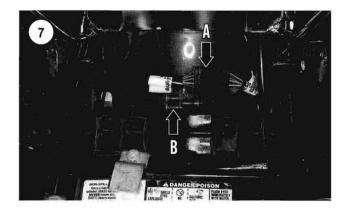


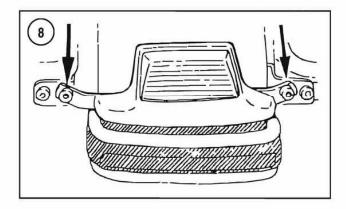
- 6. Remove the shock absorbers upper mounting bolt on both sides as described in Chapter Twelve. Remove the blocks and lower the rear wheel to the ground.
- 7. Remove the rear turn signal assemblies as described in Chapter Nine.
- 8. Remove the side plate-to-rear fender mounting screws on both sides.
- 9. Working under the rear fender, perform the following:
 - a. Remove the rear fender-to-frame rail mounting bolts
 - Remove the remaining mounting bolts and partially remove the fender and sissy bar side plates on models so equipped.
- 10. Remove the two speed nuts securing the taillight to the rear fender.
- 11. Remove the three nuts securing the license plate bracket to the rear fender.
- 12. Remove the rear fender from the frame.
- 13. Install by reversing these removal steps while noting the following:
 - a. Securely tighten all bolts and nuts.

 b. Check the operation of the taillight, turn signal and license plate light.

FXWG models

- 1. Support the motorcycle on a swing arm stand with the rear wheel off the ground by a minimum of 4 in.
- 2. Disconnect the negative battery cable from the battery.
- 3. Remove the seat as described in this chapter.
- 4. Disconnect the turn signal, taillight and license plate light electrical wire connectors from the terminal block located under the seat.
- 5. Remove the screws securing the electrical terminal block to the rear fender. Move the terminal block out of the way.
- 6. Remove the rear turn signal assemblies as described in Chapter Nine.
- 7. Remove the fasteners securing the taillight and license plate light bracket to the rear fender.
- 8. Remove the fasteners securing the rear fender to the frame.





- 9. Partially remove the rear fender from the frame. Then carefully pull the electrical wires and connector free from the frame. Remove the rear fender from the frame.
- 10. Install by reversing these removal steps while noting the following:
 - a. Tighten all fasteners securely.
 - b. Check the operation of the taillight, turn signal and license plate light.

FXSB and FXEF models

- 1. Support the motorcycle on a swing arm stand with the rear wheel off the ground by a minimum of 4 in.
- 2. Disconnect the negative battery cable from the battery.
- 3. Remove the seat as described in this chapter.
- 4. Located under the seat area, disconnect the taillight wire harness connector. Also remove the circuit breakers from the retaining clips.
- 5. Remove the Acorn nuts securing the rear fender to the mounting bracket on both sides.
- 6. Partially remove the rear fender and remove the taillight electrical wiring pins at the connector. Pull the electrical wires through the rear fender.
- 7. Remove the speed nuts securing the taillight assembly . to the rear fender.

- 8. Install by reversing these removal steps while noting the following:
 - If installing a new fender, transfer all old components to the new fender.
 - b. Tighten all fasteners securely.
 - c. Check the operation of the taillight, turn signal and license plate light.

FLH and FLT series models

Refer to Figure 6.

CAUTION

The rear of the motorcycle must be elevated sufficiently to allow the rear fender to roll back and over the rear wheel as well as clear the frame rear crossmember.

- 1. Raise the motorcycle on a center lift with the rear wheel off the ground. Secure the motorcycle in the raised position.
- 2. Remove the seat as described in this chapter.
- 3. On models so equipped, remove the Tour-Pak assembly as described in this chapter.
- 4. Remove both saddlebags as described in this chapter.
- 5. On models so equipped, disconnect the rear fender lights electrical connector (A, **Figure 7**, typical) from the top of the rear fender.
- 6. On 1984-1998 models, release the rear shock absorber air inlet T-fitting (B, **Figure 7**) from the top of the rear fender.
- 7. Remove both frame side covers.
- 8A. On early models, remove the bolt and nut securing the front section of the rear fender to the frame crossmember.
- 8B. On later models on the left side, remove the T40 Torx bolt securing the rear fender to the battery box.
- 9. Remove two bolts and lockwashers securing the muffler clamp to the saddlebag lower support rail. Carefully pull the muffler toward the outboard side of the support rail. Repeat for the other side.
- 10. Remove the shock absorber lower mounting bolt, lockwasher and washer securing the shock absorber to the swing arm. Repeat for the other side.
- 11A. On early models, remove the bolts, lockwashers and nuts securing the saddlebag lower guard to the fender bumper.
- 11B. On later models at the rear, remove the inside bolt and flange nut securing the rear bumper support rail to the saddlebag support bracket and saddlebag support rail (**Figure 8**). Repeat for the other side.

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12. Wocking under the rear humper, remove the nat with the fits washer and release the humper header from the finder work III. Remove the rear humper and rear humper custom.

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FAIRING AND WINDSHIELD (1984-1992 FXRT AND FXRD MODELS)

move the fairing from the motocycle.

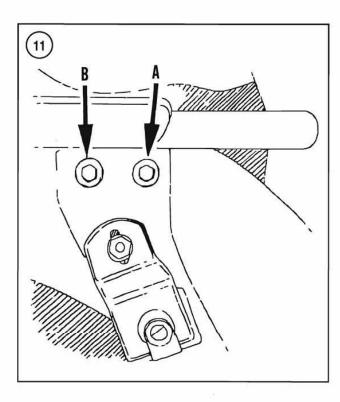
Refer to Figure 15.

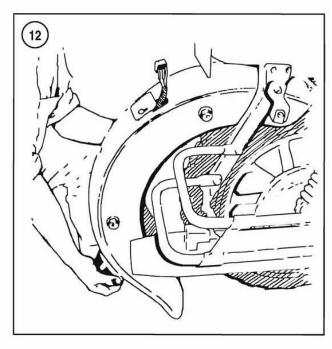
1. Place the motocycle on the jiffy stand.

2. On 1990-1996 models, disconnect the speedometer and damage at our later than the front bub.









Installation

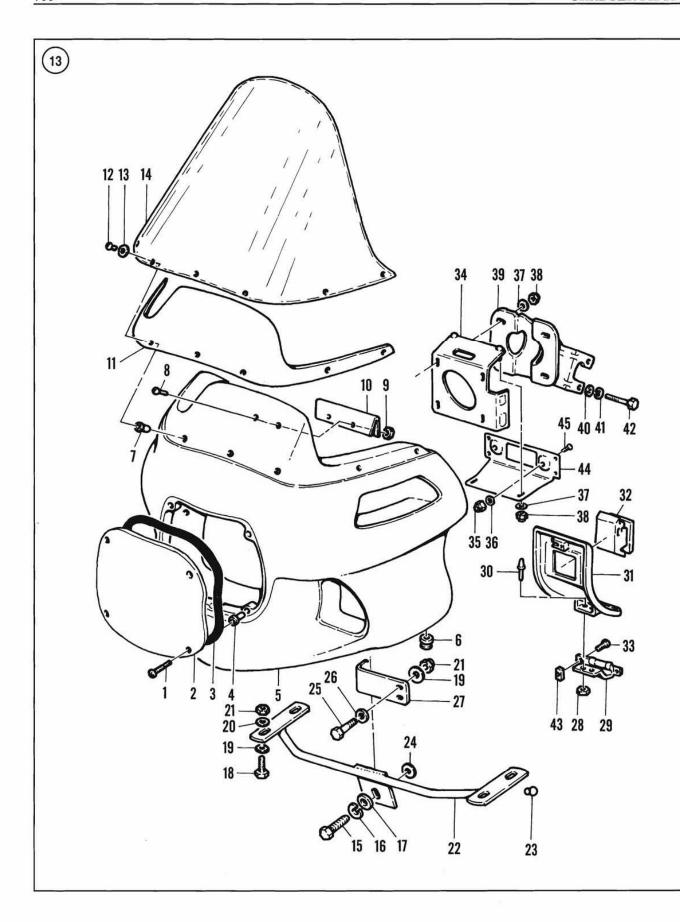
- 1. Clean the electrical connector with contact cleaner. Then apply dielectric grease to both sides of the connector.
- 2. Have an assistant hold the fairing partway in place. Then connect the 12-pin electrical connector. Push the connector together until it locks in place.

- 3. Move the throttle and choke cables into the correct location.
- 4. Place the fairing onto the mounting bracket lugs with the steering head threaded bushings.
- 5. Install the washers onto the $5/16 \times 5/8$ in. hex bolts and install the bolts through the mounting bracket and into the mounting holes in the steering head. Start the bolts and tighten finger-tight.
- 6A. On 1984-1985 models, install the lower mounting support bolts as follows:
 - a. Install the flat washers onto the 1/4-in, bolts.
 - b. Place one nylon washer between the bottom of the fairing and the top of the lower mounting support at each hole in the support.
 - c. Install the bolts while making sure they pass through the nylon washers installed in substep b.
 - d. Install all nuts and tighten finger-tight.
 - e. Secure the bolt with a wrench and tighten the nut to 97 in.-lb. (11 N•m). Repeat for all remaining nuts.
- 6B. On 1986-1992 models, install the lower mounting support bolts as follows:

CAUTION

The following washers have one plastic side and one metal side. Install the washer with the metal side facing the bolt head.

- a. Install the washers onto the lower mounting support bolts.
- b. Position the washers between the bottom of the fairing and the top of the lower mounting support with the metal side facing the lower mounting support.
- c. Insert the bolts through the lower support bracket and into the weld nuts inside the fairing. Make sure the bolts pass through the washers installed in substep b.
- d. Tighten each bolt to 97 in.-lb. (11 N•m).
- 7. Tighten the 5/16-in. bolts, installed in Step 5, to 19 ft.-lb. (26 N•m).
- 8. Align the fairing brace with the corresponding hole in the fairing on one side. Install two 1/4 in. \times 3/4 in. screws through the fairing and into the fairing brace holes. Install the lockwasher and nut to 124 in.-lb. $(14 \text{ N} \cdot \text{m})$.
- 9. Connect the speedometer cable to the front hub.
- 10. Adjust the throttle and clutch cables as described in Chapter Three.
- 11. Slowly test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.



FRONT FAIRING AND WINDSHIELD (1984-1992 FXRT AND FXRD MODELS)

- 1. Screw
- 2. Cover
- 3. Seal
- 4. Screw
- 5. Fairing
- 6. Grommet
- 7. Well nut
- 8. Screw
- 9. Locknut
- 10. Bracket
- 11. Windshield seal
- 12. Screw
- 13. Washer
- 14. Windshield
- 15. Bolt
- 16. Lockwasher
- 17. Washer
- 18. Bolt
- 19. Washer
- 20. Washer
- 21. Nut
- 22. Mounting bracket
- 23. Plug
- 24. Washer
- 25. Bolt
- 26. Washer
- 27. Bracket support
- 28. Washer
- 29. Latch
- 30. Rivet
- 31. Fairing door
- 32. Door latch
- 33. Screw
- 34. Radio support bracket
- 35. Locknut
- 36. Washer
- 37. Washer
- 38. Nut
- 39. Bracket
- 40. Washer
- 41. Lockwasher
- 42. Bolt
- 43. Speed nut
- 44. Mounting bracket
- 45. Screw

WINDSHIELD (FXRS-CON)

Removal/Installation

Refer to Figure 14.

- 1. Support the motorcycle on level ground on the jiffy stand.
- 2. Cover the headlight housing and front turn signals with a towel or blanket.
- 3. Sufficiently loosen the toggle bolt within the hinge to slip the toggle stop out of the notch in the hinge. Repeat for the other side.
- 4. Support the windshield. Then disconnect the hinge from the fork tube. The toggle stop and bolt will remain with the hinge. Repeat for the other side.
- 5. Remove the windshield from the motorcycle.
- 6. Position the lower portion of the windshield behind the front turn signals and onto the front fork.

CAUTION

Do not allow the hinge to close against the wiring harness or cable in Step 7.

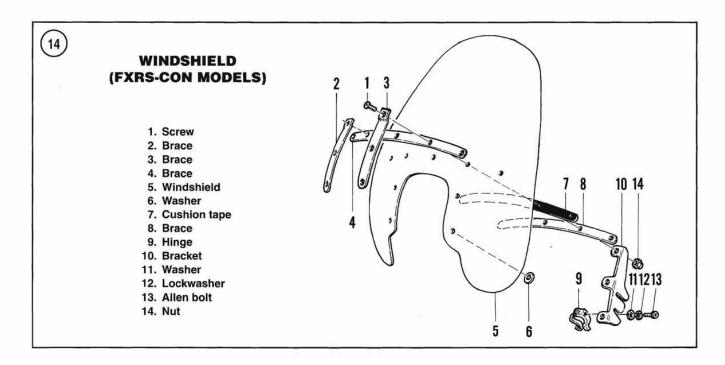
- 7. Wrap both hinges around the fork tubes and close them.
- 8. Move the toggle stop on the toggle bolt onto the notch in the hinge so that the lip on the stop faces out. Tighten the toggle bolt finger-tight. Repeat for the other side.
- 9. Check the position of the windshield. Make sure that no part of the windshield comes in contact with any part of the motorcycle. Reposition the windshield as necessary.
- 10. To obtain the maximum clamping load on the fork tubes, the toggle bolt must be tightened to a snug fit. If they are overtightened, the toggle bolt will cause the hinge to loosen, and the windshield will vibrate.
- 11. If minor adjustment is necessary, loosen the Allen bolt securing the hinge to the bracket on each side. Move the windshield and tighten the Allen bolts securely.

FAIRING AND WINDSHIELD (1984-1994 FLHTC, FLHTC-U AND FLHS MODELS)

Outer Fairing Removal

Refer to Figure 15.

- 1. Support the motorcycle with the front wheel off the ground. Refer to *Motorcycle Stands* in Chapter Ten.
- 2. Cover the front fender with a blanket or several towels to protect the finish.
- Remove the headlight lens assembly as described in Chapter Nine.



- 4. Remove the bolts, nuts and washers securing the outer fairing to the windshield and inner fairing.
- 5. On each side, loosen the bolts securing the light bracket and outer fairing to the fork bracket.
- 6. Remove the lower bracket bolt from each side. Then lower the bracket and rest it on the front fender.
- Remove the screws securing the headlight assembly to the outer fairing. Remove the headlight assembly as described in Chapter Nine.
- 8. Working within the headlight opening in the fairing, loosen the locknuts securing the fairing studs to the fairing mounting bracket. With the locknuts loose, pull the fairing forward sliding the mounting studs off the mounting bracket slots.
- 9. Carefully remove the outer fairing.

Windshield Removal

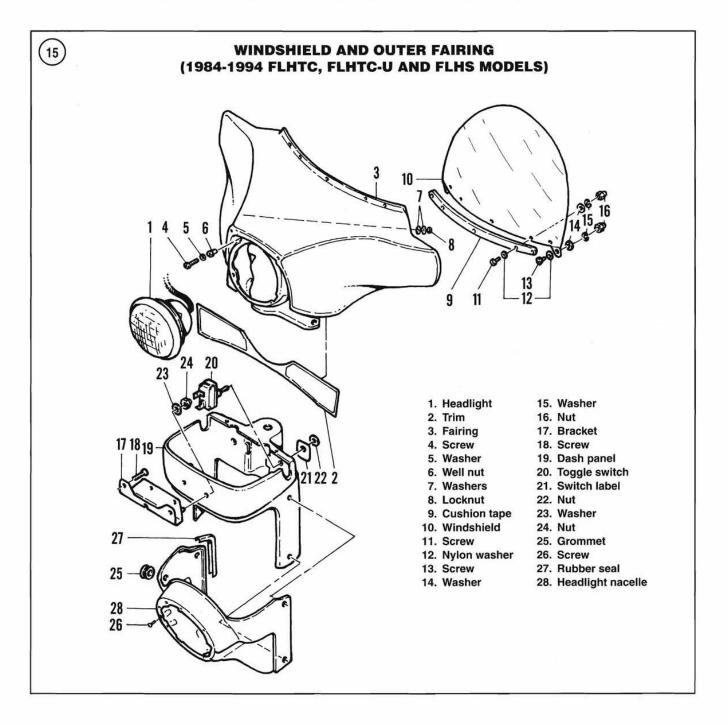
Refer to Figure 15 and Figure 16.

- 1. Remove the outer fairing as described in this section.
- 2. Remove the Acorn nuts, lockwashers, flat washers, nylon washers and screws securing the windshield to the inner fairing.
- 3. Carefully lift the windshield off the inner fairing.

Outer Fairing/Windshield Installation

- 1. Install the inner fairing as described in this section.
- 2. Install the windshield as follows:

- a. Set the windshield into position on the inner fairing and align the holes with the corresponding holes in the inner fairing.
- b. Install a nylon washer and screw through the outer end of the windshield and inner fairing.
- From the opposite side, install a washer, lockwasher and Acorn nut onto the screw.
- d. Tighten the screw and nut finger-tight.
- Repeat substeps b-d at the opposite outer end of the windshield.
- f. Install the remaining fasteners onto the windshield.
- 3. Install the outer fairing into position and install the remaining sets of windshield fasteners. Tighten the screws and nuts finger-tight.
- 4. Push the fairing toward the rear and slide the mounting studs onto the mounting bracket slots.
- 5. Working within the headlight opening in the faring, install the locknuts securing the fairing studs to the fairing mounting bracket. Tighten the locknuts finger-tight.
- 6. Make sure that the outer fairing is positioned correctly. Then securely tighten the locknuts.
- Move the light bracket into position and align the slots in the top of the bracket with the bolts installed on the lower fork bracket.
- 8. Prior to tightening the outer fairing mounting bolts, make sure the rubber seal is positioned evenly around the inner fairing.
- 9. Install the mounting bolts and tighten to 142-168 in.-lb. (16-19 N•m).



- 10. Starting at the center of the windshield and working outward, securely tighten each screw and Acorn nut. Do not overtighten because the windshield can fracture.
- 11. Install the headlight and lens assembly as described in Chapter Nine.
- 12. Adjust the throttle and clutch cables as described in Chapter Three.
- 13. Slowly test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.

Inner Fairing Removal

Refer to Figure 17.

- 1. Disconnect the negative battery cable from the battery.
- 2. Remove the outer fairing and windshield as described in this section.
- 3. Remove the fuel tank as described in Chapter Eight. This step is not required, but it will prevent accidental damage to the fuel tank.

- 4. Disconnect the speedometer cable from the instrument panel.
- 5. Disconnect the instrument, radio and gauge electrical connectors.

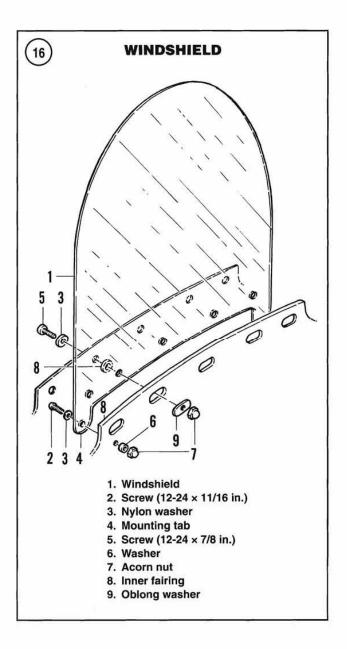
NOTE

Record the path of the throttle and clutch cables to ensure correct location during installation.

- 6. Disconnect the throttle cables from the throttle grip as described in Chapter Eight.
- 7. Disconnect the clutch cable from the hand lever as described in Chapter Five.
- 8. Carefully pull the throttle and clutch cables through the grommets in the inner fairing. Do not bend or kink the cables during removal.
- 9. Remove the screws securing the radio face plate and cover to the inner fairing. Remove the face plate and cover.
- 10. Remove the Allen screws securing the small fairing panel to the top of the handlebar. Remove the small panel.
- 11. Disconnect the electrical connector from the radio and remove the radio.
- 12. Remove the handlebar as described in Chapter Eleven.
- 13. On 1993 models, bleed the pressure from the front forks.
- 14. Partially remove the ignition switch to allow removal of the inner fairing. Refer to Chapter Nine.
- 15. Remove the screws securing the inner fairing to the upper fork bracket.
- 16. Check for any remaining electrical wires, cables or fasteners still intact. If necessary, disconnect them at this time.
- 17. Lift and remove the inner fairing from the frame.

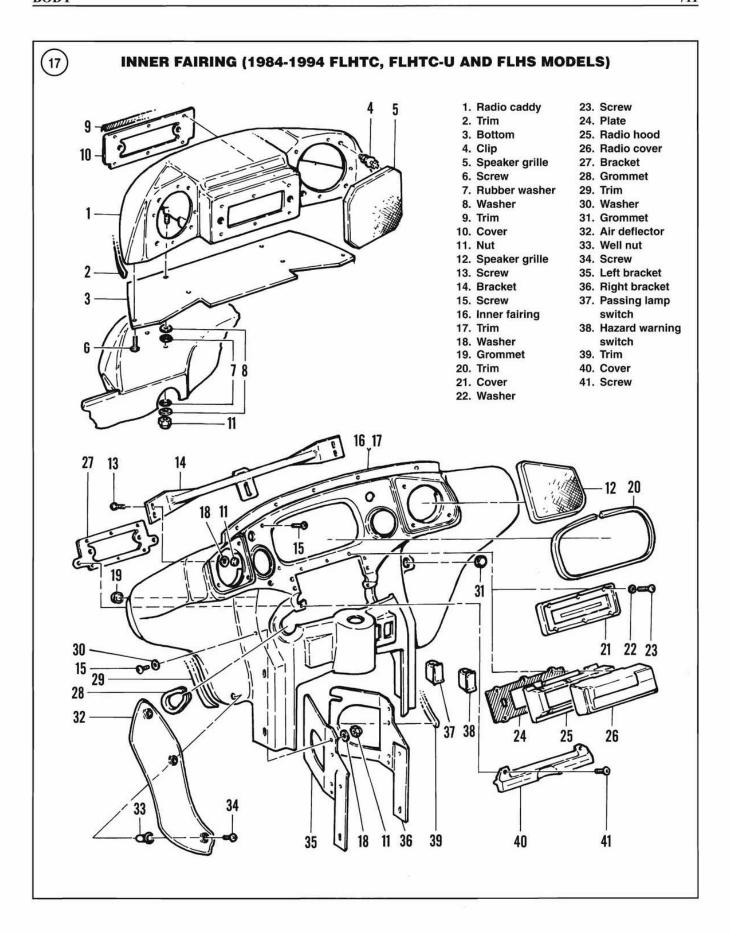
Inner Fairing Installation

- Clean all electrical connectors with contact cleaner.
 Then apply dielectric grease to both sides of the connectors.
- 2. Lift the inner fairing partway onto the frame.
- 3. Carefully insert and pull the throttle and clutch cables through the grommets in the inner fairing. Do not bend or kink the cables during installation.
- Place the inner fairing over the ignition switch and snap the inner fairing support brackets into the bushings on the lower fork bracket.
- 5. Install the screws securing the inner fairing to the ignition switch bracket. Tighten the screws (Figure 18) until



the heads are below the fairing surface. Then install a new ignition switch decal.

- 6. Continue the installation of the ignition switch as described in Chapter Nine.
- 7. Install the inner fairing-to-upper fork bracket bolts. Tighten finger-tight.
- 8. Install the handlebar as described in Chapter Eleven.
- 9. Install the radio and connect the electrical connector.
- 10. Install the small fairing panel onto the handlebar. Install the radio faceplate and cover and tighten the screws securely.
- 11. Reconnect all remaining electrical connectors.
- 12. Connect the speedometer cable to the instrument panel.



- 13. If removed, install the fuel tank as described in Chapter Eight.
- 14. On 1993 models, inflate the front suspension as described in Chapter Eleven.
- 15. Install the windshield and outer fairing as described in this section.
- 16. Test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.

Lower Fairing and Glove Boxes Removal/ Installation (FLHTC-U, FLHTC-UI, FLTC-U and FLTC-UI Models)

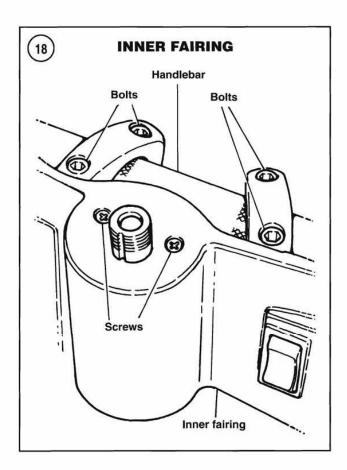
Refer to Figure 19.

- 1. Remove the screws securing the cap to the lower fairing and remove the cap. Do not lose the inner washer behind the cap.
- 2. Remove the locknuts from the clamp and the bracket.
- 3. Open the glove box door and remove the clamp from within the glove box.
- 4. Remove the glove box from the lower fairing.
- 5. Remove the screw and washers securing the clamp to the base of the lower fairing.
- 6. Remove the lower fairing.
- 7. Remove the clamp from the engine guard if the lower fairing is not going to be reinstalled.
- 8. Repeat for the lower fairing on the other side if necessary.
- 9. Install by reversing these removal steps while noting the following:
 - a. Position the clamp on the engine guard so the flat tabs face the rear of the motorcycle.
 - b. Tighten the U-bolt nuts to 71 in.-lb. (8 N•m).
 - c. Tighten the engine guard clamp bolt and nut to 142 in.-lb. (16 N•m).

FAIRING AND WINDSHIELD (1994 FLHTC AND FLHTC-U MODELS)

Outer Fairing Removal

- 1. Support the motorcycle with the front wheel off the ground. Refer to *Motorcycle Stands* in Chapter Ten.
- 2. Cover the front fender with a blanket or several towels to protect the finish.
- 3. Remove the headlight lens assembly as described in Chapter Nine.
- 4. Remove the bolts, nuts and washers securing the outer fairing to the windshield and inner fairing.
- 5. On each side, loosen the bolts securing the light bracket and outer fairing to the fork bracket.



- 6. Remove the lower bracket bolt from each side. Then lower the bracket and rest it on the front fender.
- 7. Remove the screws securing the headlight assembly to the outer fairing. Remove the headlight assembly as described in Chapter Nine.
- 8. Working within the headlight opening in the fairing, loosen the locknuts securing the fairing studs to the fairing mounting bracket. With the locknuts loose, pull the fairing forward while sliding the mounting studs off the mounting bracket slots.
- 9. Carefully remove the outer fairing.

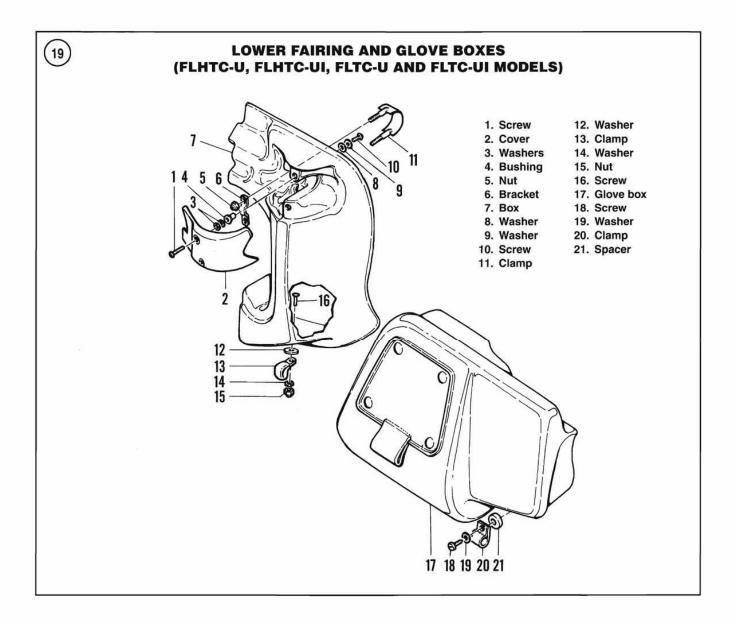
Windshield Removal

Refer to Figure 16.

- 1. Remove the outer fairing as described in this section.
- 2. Remove the Acorn nuts, lockwashers, flat washers, nylon washers and screws securing the windshield to the inner fairing.
- 3. Carefully lift the windshield off the inner fairing.

Outer Fairing/Windshield Installation

1. Install the inner fairing as described in this section.



- 2. Install the windshield as follows:
 - Set the windshield into position on the inner fairing and align the holes with the corresponding holes in the inner fairing.
 - Install a nylon washer and screw through the outer end of the windshield and inner fairing.
 - From the opposite side, install a washer, lockwasher and Acorn nut onto the screw.
 - d. Tighten the screw and nut finger-tight.
 - Repeat substeps b-d at the opposite outer end of the windshield.
 - f. Install the remaining fasteners onto the windshield.
- 3. Install the outer fairing into position and install the remaining sets of windshield fasteners. Make sure to install the washers between the windshield and the inner fairing

- as shown in Figure 16. Tighten the screws and nuts finger-tight.
- 4. Push the fairing toward the rear and slide its mounting studs onto the mounting bracket slots.
- 5. Working within the headlight opening in the fairing, install the locknuts securing the fairing studs to the fairing mounting bracket. Tighten the locknuts finger-tight.
- 6. Make sure that the outer fairing is positioned correctly. Then tighten the locknuts securely.
- 7. Move the light bracket into position and align the slots in the top of the bracket with the bolts installed on the lower fork bracket.
- 8. Prior to tightening the outer fairing mounting bolts, make sure the rubber seal is positioned evenly around the inner fairing.

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- 9. Install the mounting bolts and tighten to 142-168 in.-lb. (16-19 N•m).
- 10. Starting at the center of the windshield and working outward, securely tighten each screw and Acorn nut. Do not overtighten because the windshield can fracture.
- 11. Install the headlight and lens assembly as described in Chapter Nine.
- 12. Adjust the throttle and clutch cables as described in Chapter Three.
- 13. Slowly test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.

Inner Fairing Removal

- 1. Remove the seat as described in this chapter.
- 2. Disconnect the negative battery cable from the battery.
- 3. Remove the outer fairing and windshield as described in this section.
- 4. Remove the fuel tank as described in Chapter Eight. This step is not required, but it will prevent accidental damage to the fuel tank.
- 5. Remove the passing lamp assembly as described in Chapter Nine.
- 6. Remove the radio electrical connectors and cables. Remove the radio, mounting bracket and panel. Remove the mounting bracket and panel as an assembly.
- 7. Remove the following electrical connectors from the T-stud mounts and then disconnect:
 - a. 8-pin turn signal module connector.
 - b. 3-pin front fender connector.
 - c. 3-pin black main power connector.
 - d. 12-pin gray main-to-interconnect harness connector.
 - e. 12-pin black main-to-interconnect harness connector.
- 8. Remove the fairing cross bracket fasteners and remove the fairing cross bracket.
- 9. Remove the 6-pin gray handlebar switch connector from the T-stud. Then disconnect it.
- 10A. On non-Ultra models, remove the 6-pin black radio control-to-interconnect harness connector from the T-stud. Then disconnect it.
- 10B. On Ultra models, remove the following electrical connectors from the T-stud mounts. Then disconnect them:
 - a. 3-pin gray SET/RESUME switch connector.
 - b. 6-pin black radio overlay-to-radio control wiring harness.
 - c. 6-pin black interconnect-to-radio overlay wiring harness.
- 11. On Ultra models, disconnect the red/green cruise switch terminal wire from the front interconnect harness.

- 12. Disconnect the 4-pin black ignition switch connector. On Ultra models, disconnect the 2-pin gray PTT switch connector. Remove the connector from the T-stud mount.
- 13. Remove the cable strap securing the interconnect harness to the front fork antidive cross tube.
- 14. Remove the 2-pin black antidive connector and the 12-pin gray handlebar switch connector from the T-studs. Then disconnect them.
- 15. Disconnect the blue/yellow and yellow/violet wires from the speaker switch.
- Release air pressure from the front fork antidive assembly. Remove the front fork antidive hose from the handlebar.
- 17. Remove the handlebar assembly as described in Chapter Eleven.
- 18. Partially remove the ignition switch to allow removal of the inner fairing. Refer to Chapter Nine.
- 19. Remove the screws securing the inner fairing to the upper fork bracket.
- 20. Check for any remaining electrical wires, cables or fasteners still intact. If necessary, disconnect at this time.
- 21. Lift up and remove the inner fairing from the frame. Carefully guide the throttle and clutch cables out through the radio hole in the inner fairing.

Inner Fairing Installation

- Clean all electrical connectors with contact cleaner.
 Then apply dielectric grease to both sides of the connectors.
- 2. Lift the inner fairing partway onto the frame and fork brackets.
- 3. Carefully insert and pull the throttle and clutch cables through the radio hole in the inner fairing. Do not bend or kink the cables during installation.
- 4. Install the upper inner fairing-to-upper fork bracket mounting bolts. Tighten the bolts finger-tight.
- Install and securely tighten the inner fairing bracket bolts.
- 6. Install the screws securing the inner fairing to the ignition switch bracket. Tighten the screws (Figure 18) until the heads are below the fairing surface. Then install a new ignition switch decal.
- Continue the installation of the ignition switch as described in Chapter Nine.
- 8. Install the handlebar as described in Chapter Eleven.
- 9. Install the radio and connect the electrical connector.
- 10. Connect the following connectors and secure them to the T-stud mounts:
 - a. 2-pin black antidive connector.
 - b. 2-pin gray handlebar switch connector.

- Route these wires behind the clutch cable prior to connecting to the connector blocks.
- 11. Connect the speaker wires (blue/yellow and yellow/violet).
- 12. Install the speaker switch into position.
- 13. Connect the 4-pin black ignition switch connector. Insert the wires between the handlebar risers.
- 14. On Ultra models, connect the 2-pin gray PTT switch connector and secure it to the T-stud mount.
- 15. Secure the interconnect harness to the front fork antidive crossover tube.
- 16. Install the radio mounting bracket and fasteners. Tighten to 48-71 in.-lb. (5-8 N•m).
- 17. On Ultra models, connect the red/green wire (leading from the front interconnect harness) to the cruise control switch terminal. Install the cruise control switch.
- 18. On Ultra models, connect the following connectors and attach them to the T-stud mounts:
 - a. 3-pin gray SET/RESUME switch connector.
 - 6-pin black radio overlay-to-radio control harness connector.
 - c. 6-pin black interconnect-to-radio overlay connector.
- 19. On non-Ultra models, connect the six-pin black radio control-to-interconnect harness connector.
- 20. Install the fairing cross bar and tighten the bolts finger-tight.
- 21. Connect the following connectors and then attach to the T-stud mounts:
 - a. 8-pin gray turn signal module connector.
 - b. 3-pin front fender light connector.
 - 3-pin gray main harness-to-interconnect harness connector.
 - d. 12-pin black main harness-to-interconnect harness connector.
- 22. Install the radio. Then connect the following connectors:
 - a. 8-pin black.
 - b. 12-pin black.
 - c. DIN cable.
 - d. Antenna cable.

Connect each of the connectors to the T-stud mounts.

- 23. Securely tighten the fairing cross brace bolts.
- Inflate the front fork antidive as described in Chapter Eleven.
- 25. If removed, install the fuel tank as described in Chapter Eight.
- 26. Install the passing lamp assembly as described in Chapter Nine.
- 27. Install the windshield and outer fairing as described in this section.
- 28. Connect the negative battery cable to the battery.

29. Slowly test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.

Lower Fairing and Glove Boxes Removal/ Installation (FLHTC-U and FLHTC-UI Models)

Refer to Figure 19.

- 1. Remove the screws securing the cap to the lower fairing and remove the cap. Do not lose the inner washer behind the cap.
- 2. Remove the locknuts from the clamp and the bracket.
- 3. Open the glove box door and remove the clamp from within the glove box.
- 4. Remove the glove box from the lower fairing.
- 5. Remove the screw and washers securing the clamp to the base of the lower fairing.
- 6. Remove the lower fairing.
- 7. Remove the clamp from the engine guard if the lower fairing is not going to be reinstalled.
- 8. Repeat for the lower fairing on the other side if necessary.
- 9. Install by reversing these removal steps while noting the following:
 - a. Position the clamp on the engine guard so the flat tabs face the rear of the motorcycle.
 - b. Tighten the U-bolt nuts to 71 in.-lb. (8 N·m).
 - c. Tighten the engine guard clamp bolt and nut to 142 in.-lb. (16 N•m).

FRONT FAIRING (1995-1998 FLHT, FLHTC, FLHTC-U AND FLHTC-UI MODELS)

Front Outer Fairing Removal/Installation

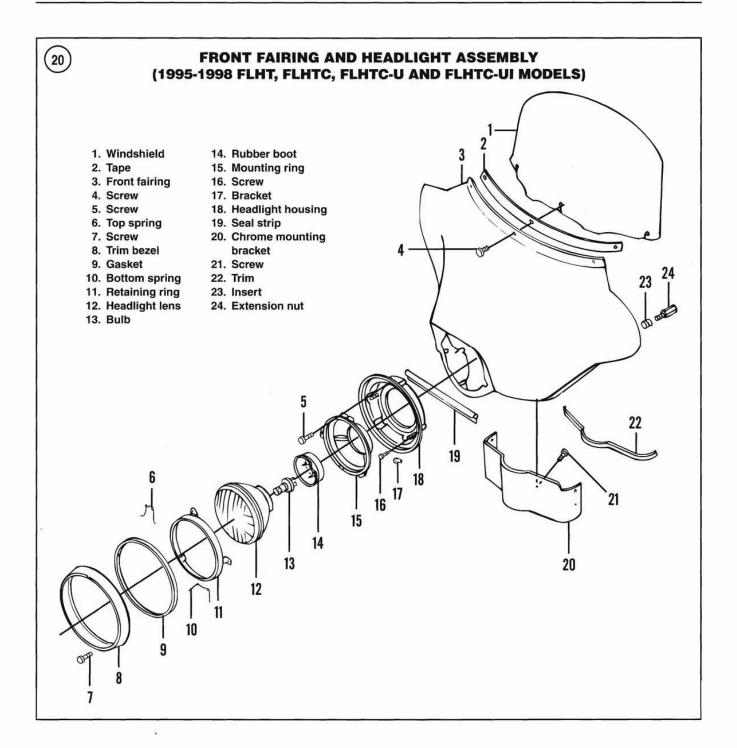
Refer to Figure 20.

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- 3. Disconnect the negative battery cable from the battery.
- 4. Cover the front fender with towels or a blanket to protect the painted finish.

NOTE

The windshield will stay with the front outer fairing with the cushion tape.

- 5. At the front of the front outer fairing, locate the three T27 Torx screws (**Figure 21**) securing the windshield and the outer fairing to the inner fairing. Using an alternating pattern, loosen and remove the three screws.
- 6. Working on the inner fairing side, remove the T25 Torx screw at the corner (**Figure 22**) on each side of the inner fairing.

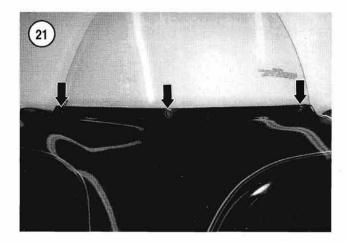


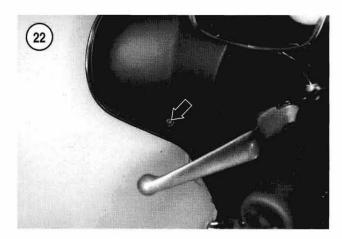
- 7. Turn the front wheel all the way to the left. Working below the fairing cap, remove the screw (**Figure 23**) securing the front outer fairing to the mounting bracket.
- 8. Have an assistant hold onto the front outer fairing because it will be loose after removal of the fasteners in the following step.
- 9. Turn the front wheel all the way to the right. Below the fairing cap, remove the other screw securing the front outer fairing to the mounting bracket.

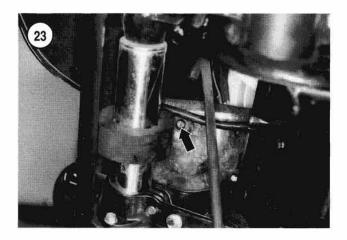
CAUTION

The windshield is **not** mechanically attached to the front outer fairing and can fall off during outer fairing removal. The windshield can remain attached to the fairing with the cushion tape securing it to the front outer fairing.

10. Pull the front outer fairing forward and disconnect the electrical connector from the headlight assembly.







- 11. Remove the front outer fairing and windshield and store them in a safe place. If necessary, remove the windshield from the front outer fairing.
- 12. Install by reversing these removal steps. Starting with the center screw and alternating from side to side, tighten the three screws securely. Do not overtighten because the area surrounding the screw might fracture.

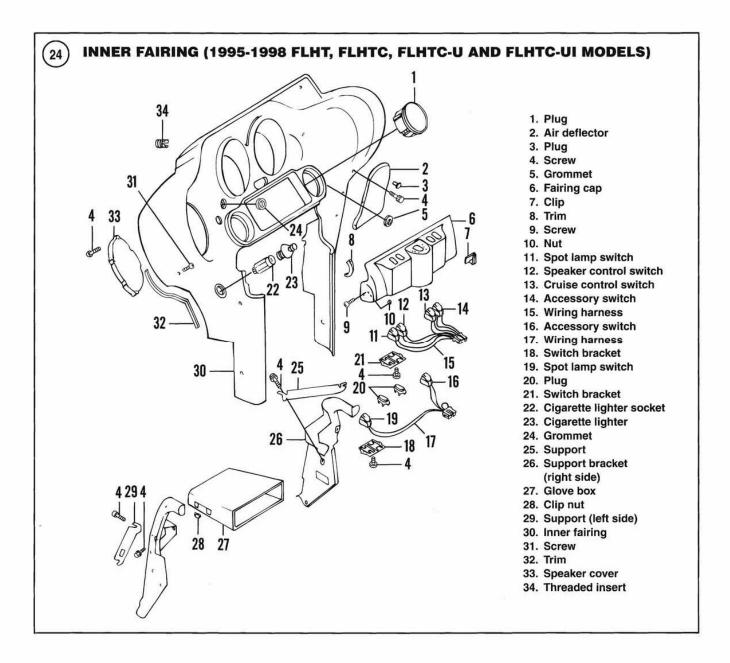
Front Inner Fairing Cap Removal/Installation

The inner fairing cap is removed when the ignition switch is removed. Refer to *Ignition/Light Switch Removal/Installation (1997-1998 Domestic Models)* in Chapter Nine.

Front Inner Fairing Removal/Installation

Refer to Figure 24.

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the front outer fairing and windshield as previously described in this section.
- 3. On the left side of the inner fairing, unscrew the rubber boot and remove the odometer reset switch from the housing.
- 4. On the lower left side, disconnect the 6-pin electrical connector (A, Figure 25) for the turn signal lamps.
- 5. Remove the passing lamp assembly as described in Chapter Nine.
- 6. Remove the front inner fairing cap as previously described in this section.
- 7. Remove the screws securing the chrome mounting skirt (**Figure 26**) and remove it.
- 8. Disconnect the clutch cable from the clutch lever as described under *Clutch Cable Replacement* in Chapter Five.
- Withdraw the clutch cable from the inner fairing rubber grommet (Figure 27). Move the clutch cable forward and out of the way. Remove the rubber grommet.
- 10. Remove the front brake master cylinder from the handlebar as described in Chapter Thirteen.
- 11. Separate the right switch housing as described in Chapter Nine.
- 12. Disconnect both the throttle and idle cables from the throttle grip as described in Chapter Eight.
- 13. Withdraw the throttle and idle cables from the inner fairing rubber grommet. Move the idle and throttle cables forward and out of the way. Remove the rubber grommet.
- 14. Disconnect the electrical terminals from the cigarette lighter (B, Figure 25) and both speakers (C).
- 15. Remove the T25 Torx screws securing the speaker adapters (D, **Figure 25**) to the inner fairing.
- 16. Remove the cigarette lighter from the socket. Hold onto the socket and unscrew the outer shell. Remove the outer shell from the inner fairing.
- 17. Disconnect the electrical terminals from the voltmeter and the fuel gauge.
- 18. Carefully cut the cable strap securing the indicator lamp connector between the speedometer and tachometer brackets.
- 19. Disconnect the following electrical connectors:

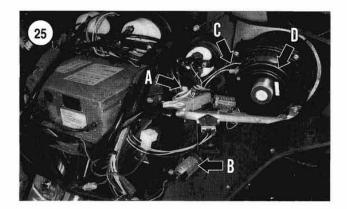


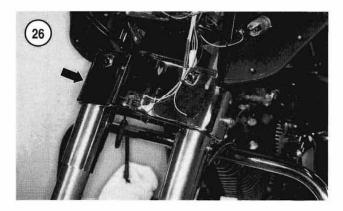
- a. Speedometer 12-pin Packard electrical connector.
- b. Tachometer 6-pin Packard electrical connector.
- c. Indicator lamps 10-pin electrical connector.
- 20. Remove the screws securing the speedometer and tachometer (**Figure 28**) to the mounting brackets. Remove the speedometer and tachometer from the inner fairing.
- 21. Remove the hex nuts securing the voltmeter and fuel level gauges to the mounting brackets. Remove the voltmeter and fuel level gauge from the inner fairing.
- 22. Release the four paddles and free the indicator bulb housing from the lens assembly. Remove the lens assembly from the inner fairing.
- 23. Spread the lower legs of the inner fairing and the support brackets outward and disengage the lower legs from

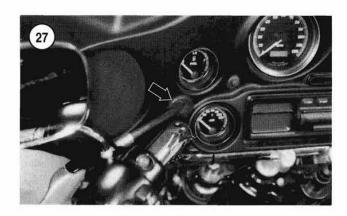
the locating dowels on the lower fork brace. Raise the lower fairing and support brackets high enough to gain access to the lower row of gauges.

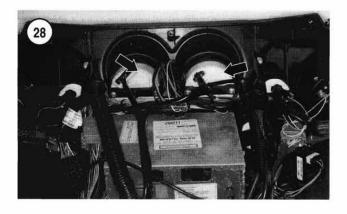
- 24. On FLHTC, FLHTC-I and FLHTC-UI models, perform the following:
 - Disconnect the electrical connectors from the oil pressure gauge and the ambient air temperature gauge.
 - b. Remove the hex nuts securing the oil pressure gauge and the ambient air temperature gauges to the mounting brackets. Remove the oil pressure gauge and the ambient air temperature gauges from the inner fairing.

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- 25. Remove the four Allen bolts securing the inner fairing to the fairing mounting bracket.
- 26. Raise the inner fairing and the support brackets farther up, tilt the inner fairing toward the rear of the motorcycle, and free the fairing from the radio nose seal.
- 27. Remove the front inner fairing from the mounting bracket. The radio and the interconnecting harness will remain with the frame.
- 28. Install by reversing these removal steps.

Lower Fairing and Glove Boxes (FLHTC-UI Models) Removal/Installation

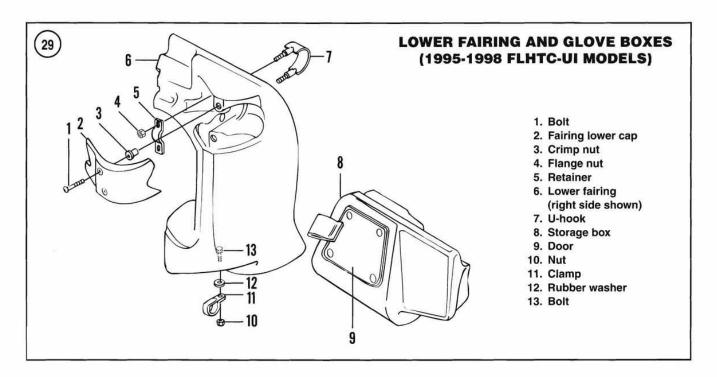
Refer to Figure 29.

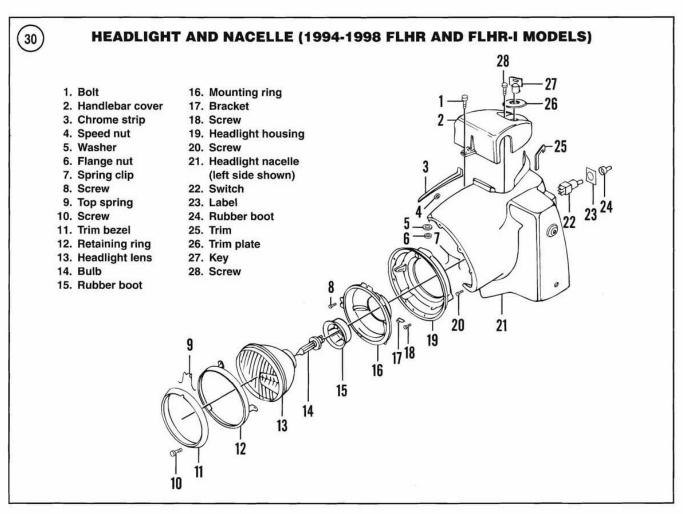
- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the two screws securing the lower cap on the right side. Remove the lower cap.
- 3. Secure the locknut on the base of the lower fairing. Unscrew the T40 Torx screw from the clamp and locknut. Remove the clamp and rubber washer.
- 4. Have an assistant hold onto the lower fairing.
- 5. Remove the two locknuts securing the U-bolt and retainer to the engine guard. Remove the U-bolt and retainer. Remove the lower fairing and storage box from the frame.
- 6. Repeat for the other side if necessary.
- 7. Install by reversing these removal steps.

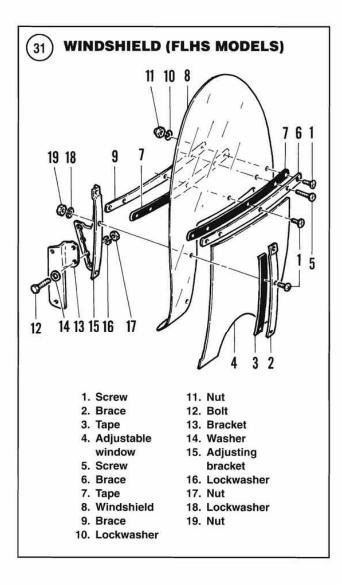
WINDSHIELD AND HEADLIGHT NACELLE (1994-1998 FLHR AND FLHR-I MODELS)

Windshield Only Removal/Installation

- 1. Place the motorcycle on the jiffy stand.
- 2. Use a finger and lift the wire form latch spring on each side of the windshield next to the headlight nacelle.
- 3. Straddle the front wheel and hold onto the windshield. Gently pull straight up on the top of the windshield until the upper notches on the side brackets are free of the upper grommets on the passing lamp support.
- 4. Continue to raise the windshield until the side bracket lower notches are free from the lower grommets and remove the windshield.
- 5. Install by reversing these removal steps while noting the following:
 - a. Lower the windshield until the latches are seated on the grommets.
 - b. Push down on the wire form latch springs until they hang over the upper grommets.
 - Make sure the windshield is securely in place prior to the first ride.







Headlight Nacelle Removal/Installation

Refer to Figure 30.

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- Disconnect the battery negative lead from the battery.
- 4. Remove the windshield as described in this section.
- 5. Remove the screw securing the trim bezel and remove the bezel.
- 6. Remove the seven screws securing the headlight assembly to the nacelle.
- 7. Partially remove the headlight assembly from the nacelle. Then disconnect the electrical connector from the backside of the headlight lens assembly. Remove the headlight assembly.
- 8. Working within the headlight nacelle, remove the speed nut and washer securing the center chrome strip. Remove the chrome strip.

- 9. Carefully pry off the fork lock trim plate.
- 10. Loosen, but do not remove, the screw on the handlebar cover front mounting tab.
- 11. On each side, remove the two Acorn nuts securing the right and left headlight nacelles to the fork tube studs.
- 12. Cover the front fender with towels or a blanket to protect the painted finish.
- 13. Remove the passing lamp assembly as described in Chapter Nine.
- 14. Remove the rubber grommets and clutch cable clamp from both fork tubes.
- 15. Slightly raise the handlebar cover and carefully spread the rear of the nacelle halves from the fork tube studs.
- 16. Disconnect the accessory switch and passing lamp switch connectors.
- 17. Remove the nacelle halves from the front forks and store them in safe place.
- 18. Install by reversing these removal steps.

WINDSHIELD (FLHS MODELS)

Refer to Figure 31.

- 1. Remove the shoulder bolts, flat washers, lockwashers and nuts securing the windshield and adjust bracket to the mounting brackets.
- 2. Remove the windshield from the motorcycle.
- 3. Install the windshield as follows:
 - a. Position the windshield between the mounting brackets.
 - b. Align the slots in the adjusting brackets with the holes in the mounting brackets.
 - c. Install the shoulder bolt, flat washer, lockwasher and nut on each side. Install the shoulder bolt into the same hole in the mounting brackets on both sides. Tighten the nuts finger-tight.
- 4. Adjust the windshield as follows:
 - Adjust the height of the windshield so the rider sitting on the seat can see over the top of the windshield.
 - Reposition the windshield as necessary. Then tighten the nuts securely.
 - c. The lower edge of the adjustable window must align with the bottom of the instrument panel.

CAUTION

The windshield must not contact the headlight housing.

FAIRING AND WINDSHIELD (1984-1996 FLTC, FLTC-U AND FLTC-UI)

Windshield and Fairing Removal

Refer to Figure 32.

- 1. Support the motorcycle with the front wheel off the ground. Refer to *Motorcycle Stands* in Chapter Ten.
- 2. Cover the front fender with a blanket or several towels to protect the finish.
- 3. Disconnect the negative battery cable from the battery.
- 4. To remove the windshield, perform the following:
 - Remove the screws and washers securing the windshield to the fairing. The well nut should stay within the fairing.
 - b. Remove the windshield from the fairing.
- 5A. On 1984-1985 models, disconnect the electrical connector at the back of the fairing.
- 5B. On 1986-1996 models, disconnect the two electrical connectors at the back of the fairing.
- 6. Remove the headlight housing assembly as described in Chapter Nine.
- 7. Remove the bolts securing each clamp to the support bracket on the engine guard (Figure 33).
- 8. Check for any remaining electrical wires or fasteners still intact. If necessary, remove them at this time.
- 9. Have an assistant hold the fairing.
- 10. Remove the bolts located behind the headlight housing (Figure 33) and remove the fairing.

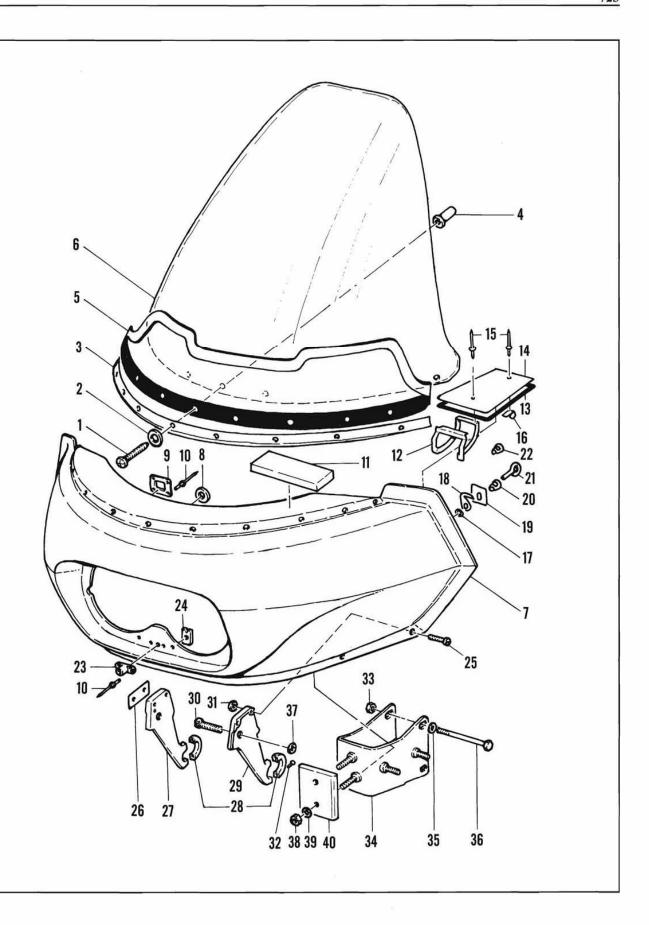
Installation

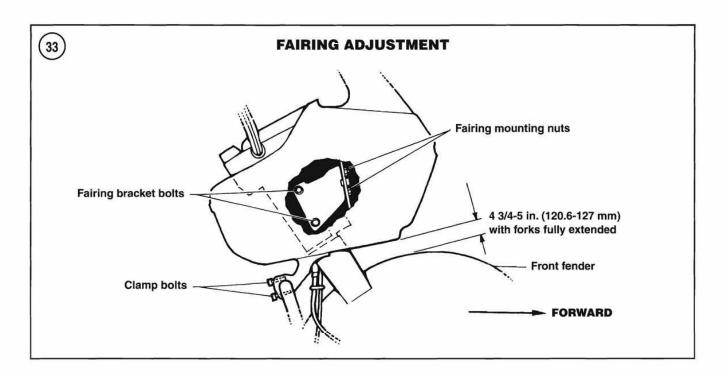
- 1. Clean all electrical connectors with contact cleaner. Then apply dielectric grease to both sides of the connectors
- 2. Have an assistant hold the fairing in place while making sure not to pinch or interfere with the control cables and wires.
- 3. Install the bolts located behind the headlight housing (Figure 33) and tighten securely.
- 4. Align the clamp with the support bracket and align it on the engine guard. Install the bolts and tighten finger-tight. Repeat for the clamp on the other side.
- 5. Correctly align the clamps on the engine guard. Then tighten the screws securely.
- Install the headlight housing as described in Chapter Nine.
- Connect the electrical connector(s).
- 8. Make sure all windshield attachment well nuts are in place in the fairing.
- 9. Align the groove in the bottom of the windshield with the fairing and place the windshield into position.



FRONT FAIRING AND WINDSHIELD (1984-1996 FLTC, FLTC-U AND FLTC-UI MODELS)

- 1. Screw
- 2. Washer
- 3. Foam tape
- 4. Well nut
- 5. Decal
- 6. Windshield
- 7. Fairing
- 8. Grommet
- 9. Mounting plate
- 10. Rivet
- 11. Pad
- 12. Cover hinge
- 13. Cover gasket
- 14. Cover
- 15. Rivets
- 16. Cover latch
- 17. Clip
- 18. Cam hook
- 19. Washer plate
- 20. Cam lock
- 21. Screw
- 22. Screw and washer
- 23. Mounting bracket
- 24. Clip nut
- 25. Screw
- 26. Gasket
- 27. Support bracket
- 28. Clamp
- 29. Support bracket
- 30. Bolt
- 31. Nut
- 32. Screw
- 33. Nut
- 34. Upper mounting bracket
- 35. Washer
- 36. Bolt
- 37. Washer
- 38. Locknut
- 39. Washer
- 40. Rubber pad





- 10. Install the center screw first. Then install the remaining screws in a crisscross pattern from left to right. After all screws are in place, tighten securely. Do not overtighten because the windshield might fracture.
- 11. Make sure that the front wheel is completely off the ground with the forks completely extended.

NOTE

All of the fairing mounting screws and bolts must be tightened prior to making the clearance inspection in Step 12.

- 12. Measure the distance between the bottom of the fairing and the top of the fender as shown in **Figure 33**. The specified clearance is 4 3/4-5 in. (120.6-127 mm). If the clearance is less than 4 3/4 in. (120.6 mm), perform the following:
 - a. Loosen the firing mounting bolts within the headlight housing.
 - b. Loosen the engine guard bracket screws approximately one turn.
 - Have an assistant slowly lift the fairing until the specified clearance is correct.
 - Hold the fairing in this position and tighten the bolts and screws securely.
 - e. Recheck the clearance and adjust if necessary.

CAUTION

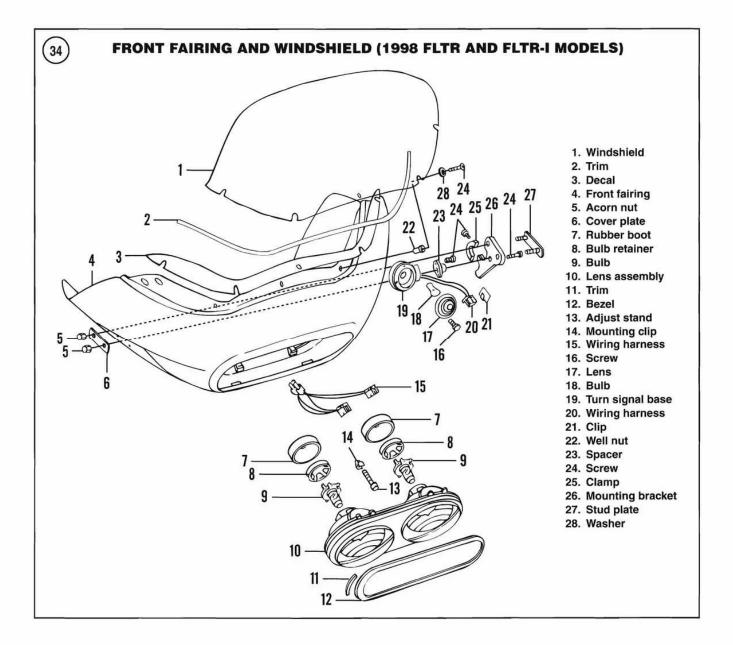
Maintain this specified clearance. If the clearance is less than specified, the front fender will contact the bottom of the fairing

when the front fork bottom out. This will result in damage to both the fender and fairing.

- 13. Turn the front wheel completely from left to right and make sure that there is no interference with throttle cable routing between the instrument housing and fairing. Reposition the cable if necessary.
- 14. Slowly test-ride the motorcycle to make sure routing of the throttle and choke cables is correct.

Lower Fairing and Glove Boxes Removal/ Installation (FLTC-U and FLTC-UI Models)

- 1. Remove the screws securing the cap to the lower fairing and remove the cap. Do not lose the inner washer behind the cap.
- 2. Remove the locknuts from the clamp and the bracket.
- 3. Open the glove box door and remove the clamp from within the glove box.
- 4A. On early 1989 models, remove the glove box from the lower fairing as follows:
 - a. Remove the screw, lockwasher and clamp securing the clutch cable to the left side lower fairing.
 - Remove the screw, lockwasher and flat washer securing the left glove box. Then remove the glove box.
- 4B. On late 1989-1998 models, remove the glove box from the lower fairing as follows:



- a. Remove the screws securing the lower cap to the left lower fairing. Remove the lower cap.
- b. Remove the screw, lockwasher and clamp securing the clutch cable to the left lower fairing.
- c. Working through the front of the lower fairing, remove the screws securing the left glove box to the lower fairing. Remove the glove box.
- 5. Remove the screw and washers securing the clamp to the base of the lower fairing.
- 6. Remove the lower fairing.
- 7. Remove the clamp from the engine guard if the lower fairing is not going to be reinstalled.
- 8. Repeat for the lower fairing on the other side if necessary.

- 9. Install by reversing these removal steps while noting the following:
 - a. Position the clamp on the engine guard so the flat tabs face the rear of the motorcycle.
 - b. Tighten the U-bolt nuts to 72 in.-lb. (8 N•m).
 - c. Tighten the engine guard clamp bolt and nut to 12 ft.-lb. (16 N•m).

WINDSHIELD AND FRONT FAIRING (1998 FLTR AND FLTR-I MODELS)

Windshield Only Removal/Installation

Refer to Figure 34.

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- 1. Place the motorcycle on the jiffy stand.
- 2. At the front surface of the front outer fairing, locate the five screws securing the windshield to the outer fairing. Using an alternating pattern, loosen and remove the five screws and the plastic washers.
- Carefully pull the windshield and trim away from the outer fairing.
- 4. Carefully remove the well-nuts straight out from the outer faring. Do not push them into the inner fairing during removal.
- Inspect the well nuts in the front outer fairing for wear, cuts or damage. Replace as a set if necessary.
- 6. If installing a new windshield, carefully poke holes in the decal from the inside surface for the screws. If poked from the outside surface, the decal will be broken loose from the windshield and might tear.
- 7. Install the flat plastic washer onto the mounting screw.
- 8. Insert the screws through the windshield slots and the decal.
- 9. Partially screw the well nuts onto the screws.
- 10. At the front surface of the front outer fairing, position the five well nuts with the openings in the outer fairing. Carefully push the well nuts into the fairing openings. Push the windshield onto the outer fairing until it is flush.
- 11. Starting with the center screw and alternating from side to side, tighten the five screws securely. Do not overtighten because the area surrounding the screw might fracture.

Outer Front Fairing Removal/Installation

Refer to Figure 34.

NOTE

It is not necessary to remove the windshield when removing the outer fairing.

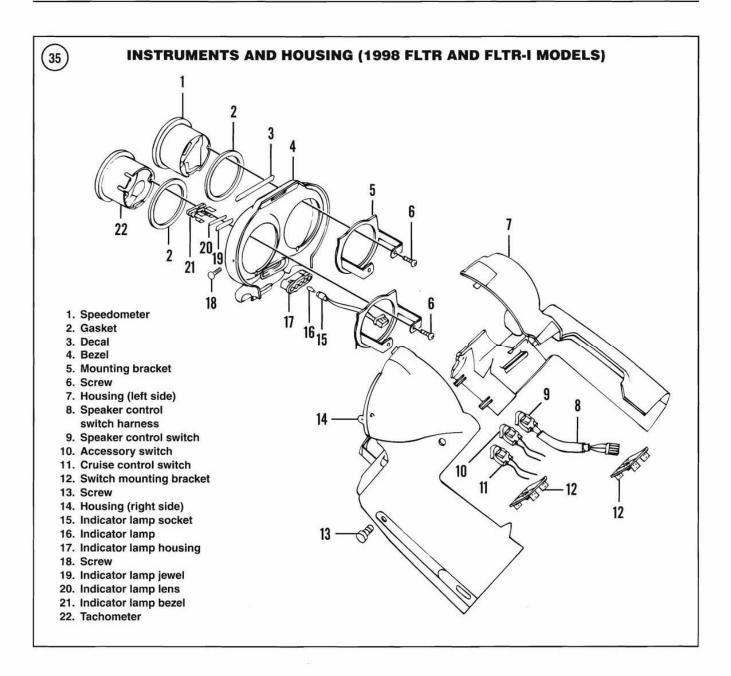
- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- 3. Disconnect the negative battery cable from the battery.
- 4. Cover the front fender with towels or a blanket to protect the painted finish.
- 5. Remove the screws securing the outer fairing to the inner fairing in the following order:
 - a. On the left side, remove the T25 Torx long screw just below the left glove box.
 - b. On the left side, remove the screw at the edge of the fairing next to the left speaker.
 - c. Loosen, but do not remove, the top left and right screws outboard of the fuel and volt gauges.
 - d. On the right side, remove the screw at the edge of the fairing next to the right speaker.

- e. On the right side, remove the T25 Torx long screw just below the right glove box.
- 6. Next to the front turn signal lamp assembly, remove the two Acorn nuts and washers from the stud plate. Push on both studs and release the stud plate from the left fairing support.
- 7. Repeat Step 6 for the stud plate on the opposite side.
- 8. Remove the screws loosened in Step 5c.
- 9. Carefully raise the outer fairing up and off the radio mounting bracket hooks. Move it out and then rest it on the protective covering on the front fender.
- 10. Working inside the outer fairing, disconnect the electrical connector from the back side of each headlight assembly.
- 11. Remove the front outer fairing and store it in a safe place.
- 12. Install by reversing these removal steps while noting the following:
 - a. Place the outer fairing onto the inner fairing and engage the two slots with the radio mounting bracket on the inner fairing. Move the wiring harness and individual wires out of the way so they will not get pinched during installation.
 - b. The alignment tabs on the inner fairing must be positioned outboard of those on the outer fairing. Make sure this condition exists on both sides of the fairing.
 - c. Tighten the screws securely. Do not overtighten because the plastic surrounding the screw hole might fracture.

Instrument Bezel Housing Removal/Installation

Refer to Figure 35.

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- 3. Disconnect the battery negative cable from the battery.
- 4. On the lower right side of the housing, unscrew the rubber boot and remove the odometer reset switch from the housing.
- 5. Remove the instruments and bezel as described in Chapter Nine.
- 6. Remove the throttle cable clip for the hole on the upper right housing.
- 7. Remove the ignition switch knob, nut, collar and washer as described in Chapter Nine.
- 8. Disconnect the speaker switch from the wiring harness.
- 9. Remove the two T40 Torx bolts and washers securing the left housing to the fork assembly. Carefully remove the left housing from the frame and store it in a safe place.



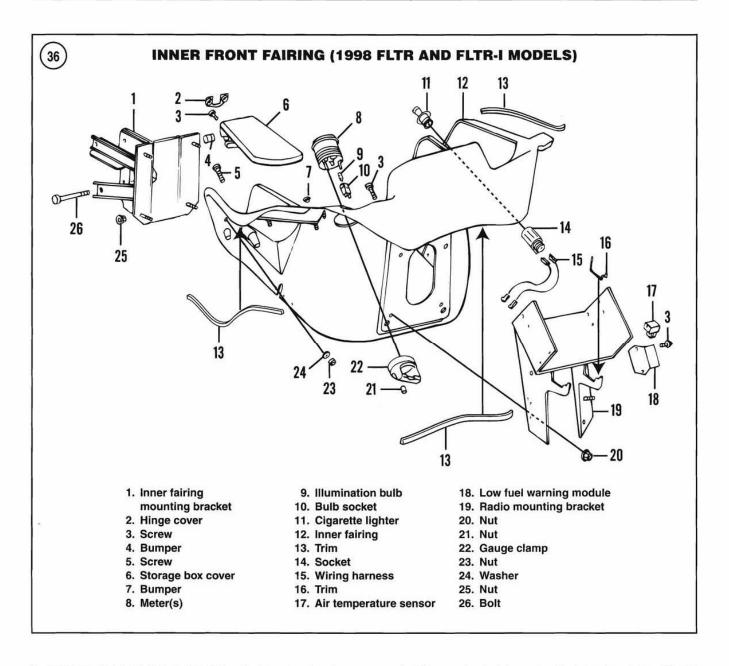
- 10. Remove the outer front fairing as described in this chapter.
- 11. Carefully pull the electrical wire bundles and conduit from the funnel of the fairing bracket and allow them to hang down. If necessary, cut the cable strap securing the interconnect harness to the front corners of the radio mounting bracket.
- 12. At the front portion of the bezel housing, disconnect the ten-pin electrical connector for the indicator lamps and the 12-pin electrical connector for the instrument nacelle.
- 13. Remove two T40 Torx bolts and washers securing the right housing to the front fork.

- 14. Pull the free end of the jumper cable harness through the tunnel of the fairing bracket and remove the right housing from the frame. Store it in a safe place.
- 15. Install by reversing these removal steps.

Inner Front Fairing Removal/Installation

Refer to Figure 36.

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- 3. Disconnect the negative battery cable from the battery.
- 4. Cover the front fender with towels or a blanket to protect the painted finish.



- 5. Remove the instrument bezel housing as previously described in this section.
- 6. Remove the outer front fairing as previously described in this section.

NOTE

Due to the number of electrical connectors to be disconnected in the following steps, be sure to identify each mating half of the connectors to assist during installation.

- 7. Disconnect the main harness from the interconnect harness electrical connectors as follows:
 - a. The interconnect black 12-pin Deutsch electrical connector below the radio on the right side.

- The main-to-interconnect harness gray 12-pin Deutsch electrical connector secured to the T-stud on the radio right side bracket.
- c. The main power black 2-pin Packard electrical connector on the back left side of the radio.
- d. The radio antenna cable connector on the left side of radio.
- 8. Disconnect the black 4-pin Packard ignition switch connector from the main harness at the inside surface of the left fairing bracket.
- 9. On FLHTC-UI Ultra models, disconnect the black 12-pin Deutsch overlay harness from the interconnect harness secured to the T-stud on the radio left side bracket.

- 10. Disconnect the handlebar switch controls and radio ground from the interconnect harness as follows:
 - The gray 12-pin Deutsch left handlebar switch electrical connector secured to the T-stud on the radio left side bracket.
 - b. The black 12-pin Deutsch right handlebar switch electrical connector secured to the T-stud on the radio right side bracket.
 - The front turn signal 6-pin connector below the right side of the radio.
 - d. The radio ground single spade and socket terminal.
- 11. Double check to make sure all electrical connectors have been disconnected.
- 12. Unhook the turn signal conduit from the flexible clips on both sides of the inner fairing. Carefully pull the conduit down to free it from the slots at the bottom of the inner fairing.
- 13. Release the jumper harness, main harness, FLHTC-UI Ultra models overlay harness and handlebar switch control conduit from the interconnect harness. Carefully cut and remove any cable straps if necessary.
- 14. Carefully pull all of the disconnected harnesses and electrical connectors forward and away from the front opening in the inner fairing. Wrap the harness bundle tightly with shop cloths and secure them with tape or string. This bundle of wires must pass through the front opening in the inner fairing.
- 15. Hold the front inner fairing and remove the four locknuts securing the front inner fairing and radio mounting bracket to the fairing mounting bracket. Remove the front inner fairing and radio mounting bracket from the frame. Store it in a safe place.
- 16. Install by reversing these removal steps. Correctly reconnect all electrical connectors.

TOUR-PAK (FLH AND FLT SERIES MODELS)

Removal/Installation

Refer to Figure 37.

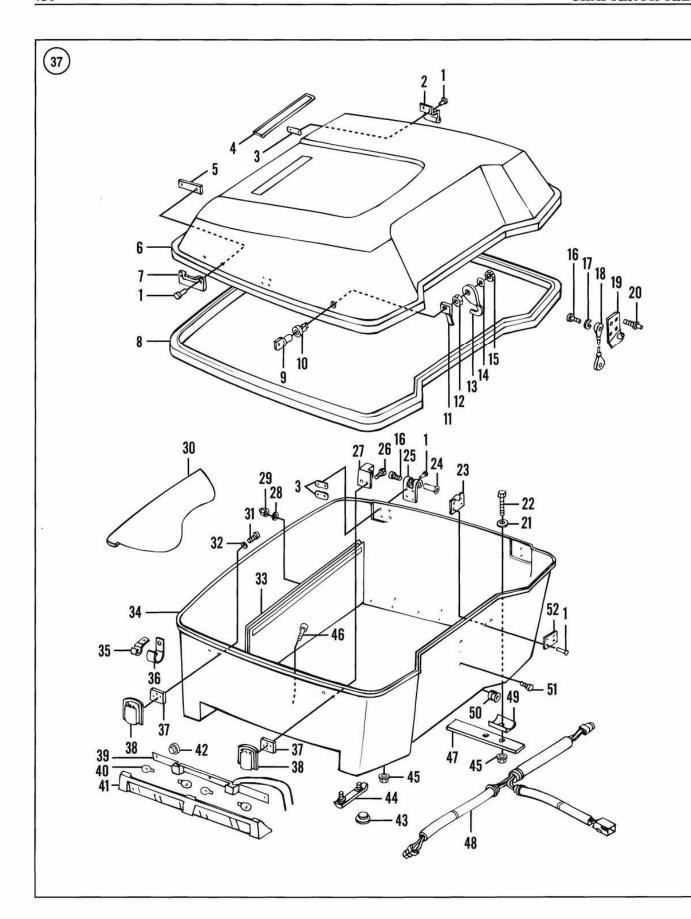
- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the seat as described in this chapter.
- 3. Disconnect the negative battery cable from the battery.
- 4. Remove both saddlebags as described in this chapter.
- 5. Open the cover and remove the rubber mat. Leave the cover open for the remainder of this procedure.
- 6. On FLHTC-U models, perform the following:
 - a. Open the map pocket and remove the Acorn nuts and flat washers securing the molded inner liner to the lower case. Remove the molded liner.

- b. Depress the latch, rotate the housing, and release the bulb socket from the left side of the lower case.
- 7. Rotate the knurled locking ring *counterclockwise* and disconnect the radio antenna cable connector. Release the cable from the two clips at the base of the lower case.
- 8. Pull the grommet into the lower case and remove it from the wire harness.
- 9. On FLHTC-U models, separate the 3-pin electrical connector for the Tour-Pak light harness. Pull the grommet into the lower case and remove it from the wire harness.
- 10. Feed the wire harness down and through the opening in the base of the lower case.
- 11. On FLHTC-U models, perform the following:
 - a. Release the headrest receptacle from the bottom of the left speaker box.
 - Release the wire harness from the clamp at the front corner of the lower case.
 - c. On the right side, disconnect the CB antenna cable connector and release the cable from the two clips on the bottom of the lower case. Disconnect the cable connector.
 - d. Feed the CB antenna down and through the opening in the bottom of the lower case.
 - e. Remove the T40 mounting bolt at the front right corner and release the ground wire ring terminal from the rear passenger controls.
 - f. Pull the right side grommet surrounding the CB antenna cable into the lower case and remove it from the cable.
 - g. Feed the CB antenna cable and ground wire through the opening in the lower case.

NOTE

The Tour-Pak is adjustable fore and aft to adjust the passenger backrest position. Prior to removing the bolts and nuts, note the present bolt locations within the luggage rack to ensure original installation locations.

- 12. Have an assistant hold the Tour-Pak during bolt and nut removal. With the cover open, the Tour-Pak is top heavy on the left side.
- 13. Secure the locknut below each mounting bolt and remove the bolts and nuts securing the lower Tour-Pak case to the luggage rack.
- 14. Lift the Tour-Pak off the luggage rack and release the cable from the clamp at the front corner of the lower case. Remove the Tour-Pak from the luggage rack.
- 15. Remove the spacers from the luggage rack and place them in a plastic bag.
- 16. Install by reversing these removal steps. Securely tighten the bolts and nuts.



TOUR-PAK (FLH AND FLT SERIES MODELS)

- 1. Rivet
- 2. Hinge
- 3. Back plate
- 4. Nameplate
- 5. Back plate
- 6. Cover
- 7. Upper catch
- 8. Gasket
- 9. Key
- 10. Lock
- 11. Lock guide
- 12. Nut
- 13. Cam hook
- 14. Lockwasher
- 15. Nut
- 16. Screw
- 17. Spring washer
- 18. Cable brace
- 19. Bracket
- 20. Nylon rivet
- 21. Washer
- 22. Screw
- 23. Bracket
- 24. Hinge pin
- 25. Hinge
- 26. Screw
- 27. Lower catch
- 28. Washer
- 29. Nut
- 30. Rubber mat
- 31. Screw
- 32. Washer
- 33. Pouch
- 34. Lower case
- 35. Antenna cable clip
- 36. Clamp
- 37. Spacer
- 38. Catch body
- 39. Mounting bracket
- 40. Bulb
- 41. Side marker lens
- 42. Eyelet
- 43. Grommet
- 44. Bumper
- 45. Nut
- 46. Screw
- 47. Gasket
- 48. Wiring harness
- 49. Spacer
- 50. Grommet
- 51. Screw
- 52. Back plate

Passenger Backrest Removal/Installation

- 1. Remove the seat as described in this chapter.
- 2. Open the Tour-Pak cover.
- 3. Remove the locknuts, back plates and cushion plates securing the backrest to the Tour-Pak.
- 4. Move the backrest forward and remove it.
- 5. Install by reversing these removal steps. Tighten the locknuts securely.

SADDLEBAGS AND GUARDS

Removal/Installation

FXRS-Con models

Refer to Figure 38.

- 1. Place the motorcycle on the jiffy stand.
- 2. Pull the saddlebag handle out from under the fender brace.
- 3. Secure the saddlebag. Then remove the knobbed screws securing the saddlebag to the fender brace mounting sockets. The well nuts will remain on the knobbed screws after removal.
- 4. Install the knobbed screws into the fender brace or insert the caps into the frame mounting sockets.
- 5. Install by reversing these removal steps. Tuck the saddlebag handles under the fender brace. Then install the knobbed screws.

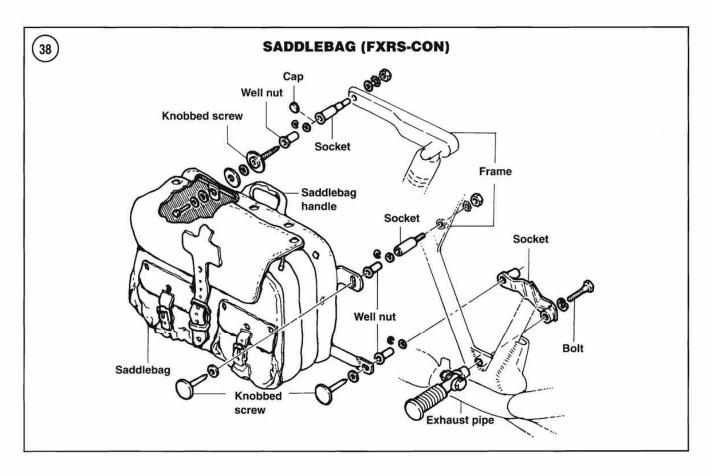
WARNING

The saddlebag handles are not designed as passenger grab handles. Do not allow a passenger to grab the handles because they will break off. Be sure to tuck the handles under the fender brace.

FXRT and FXRD models

Refer to Figure 39.

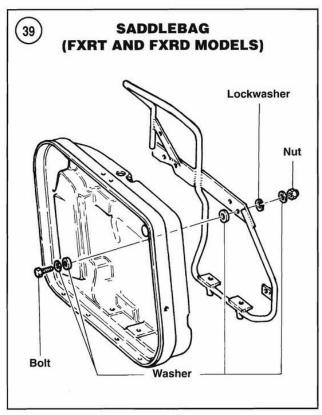
- 1. Place the motorcycle on the jiffy stand.
- 2. Unlock the outer cover and hinge it down.
- 3. Remove the bolts, washers, lockwashers and nuts securing the saddlebag to the support bracket. Remove the saddlebag.
- 4. Install by reversing these removal steps while noting the following:
 - a. Position the rubber washers so they seat next to the saddlebag surface. Install the bolts, washers, lockwashers and nuts.
 - b. Tighten all bolts finger-tight. Then tighten securely.

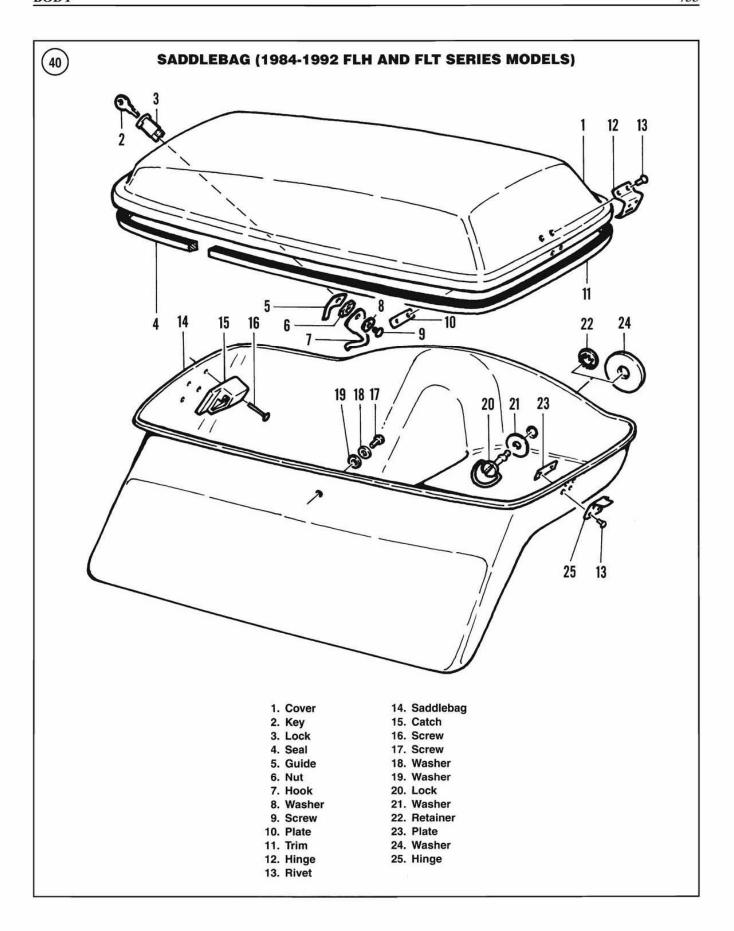


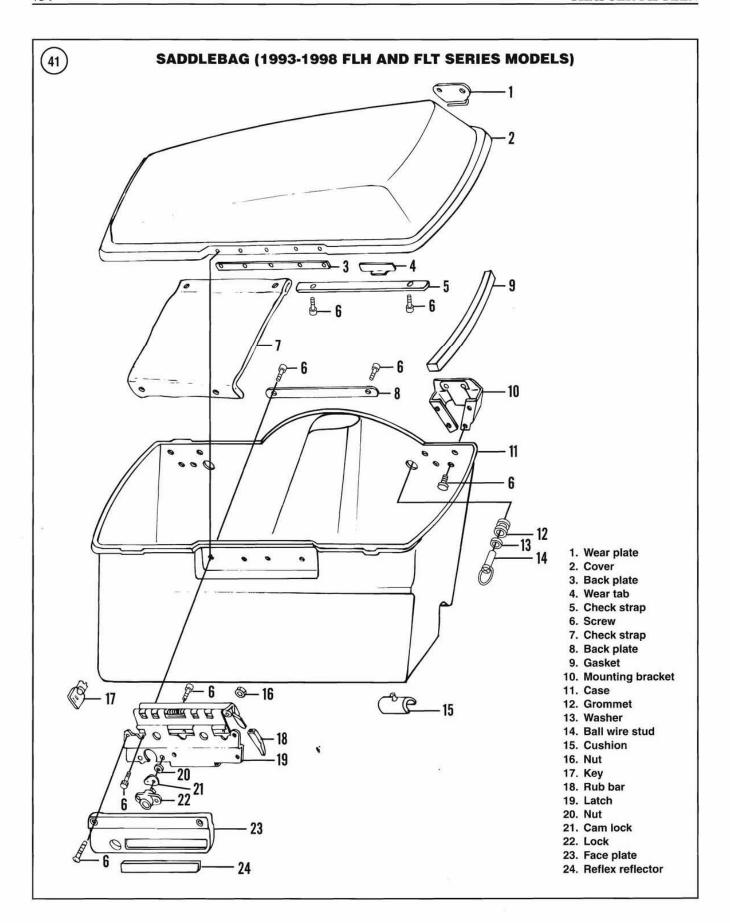
FLH and FLT series models

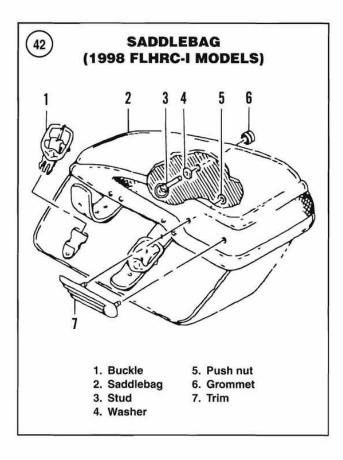
Refer to Figures 40-42.

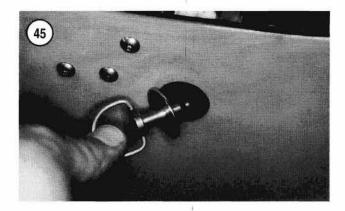
- 1. Place the motorcycle on the jiffy stand.
- 2A. On 1984-1992 models, unlock the cover and remove it from the saddlebag.
- 2B. On 1999 FLHRC-I models, perform the following:
 - a. Lift the decorative buckle, press in on the tabs, and release the catch from the receptacle.
 - b. Rotate the hinge on the outboard side of the saddlebag and open the lid.
- 2C. On all other models, perform the following:
 - a. Unlock the handle latch.
 - b. Pull on the bottom of the latch (Figure 43) and open the lid.
- 3. Within the saddlebag case, grasp the latch bail wire (Figure 44), rotate the latch stud one-quarter turn counterclockwise, and release the stud from the mounting bracket (Figure 45).
- 4. Repeat for the other latch stud.
- 5. Carefully pull the saddlebag up and out of the bracket or guards.
- 6. Inspect the latch mounting brackets (Figure 46) for damage.

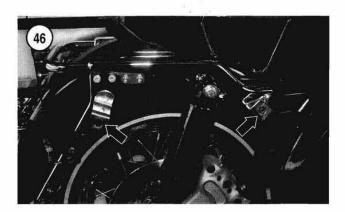


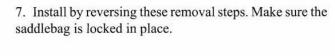




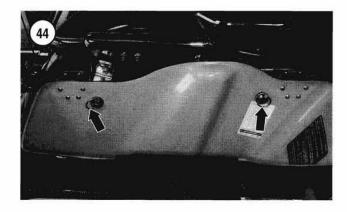










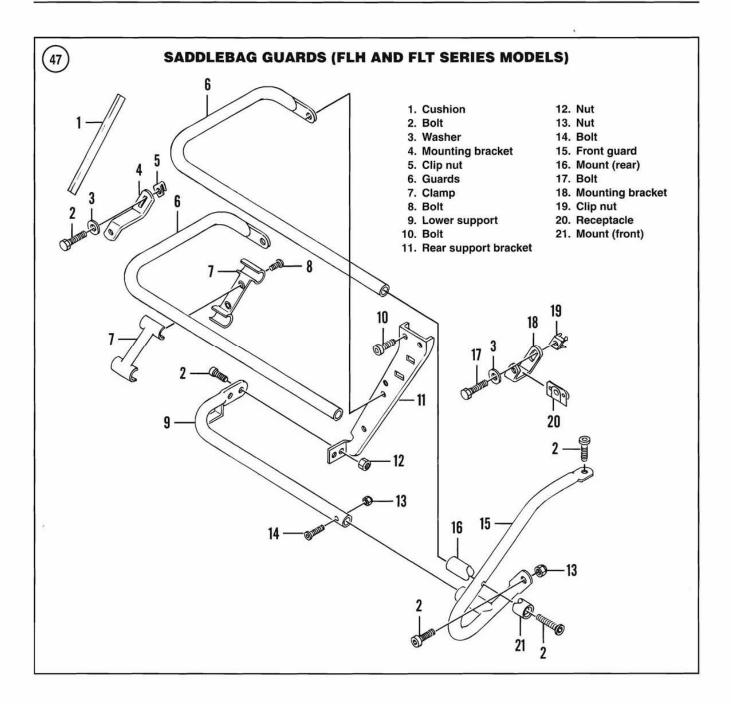


Saddlebag Guards Removal/Installation

Refer to Figure 47.

- 1. Place the motorcycle on level ground on the jiffy stand.
- 2. Remove the saddlebag as described in this section.
- 3. Remove the front lower bolt and locknut securing the front guard to the frame bracket.
- 4. Remove the bolts and lockwashers (A, **Figure 48**) securing the muffler to the lower support. Remove the support bracket and rubber cushion.
- 5. Remove one of the bolts (B, **Figure 48**) securing the rear support bracket to the frame bracket. Loosen the other one at this time but leave it in place.
- 6. Hold the saddlebag support and remove the front upper bolt (**Figure 49**) securing the front guard to the frame.
- 7. Remove the saddlebag guard assembly (**Figure 50**) from the frame.
- 8. Support the rear of the muffler to the frame with a bungee cord or rope.
- 9. Install by reversing these removal steps. Securely tighten all bolts and nuts.

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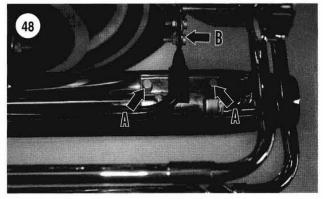


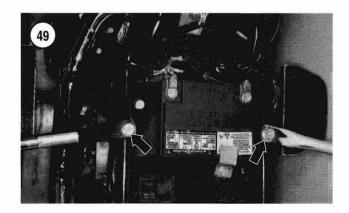
FOOTBOARDS (FLH AND FLT SERIES MODELS)

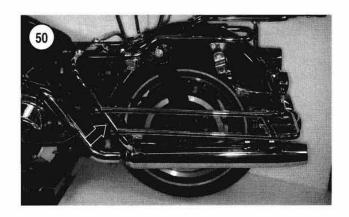
Driver Footboard Removal/Installation

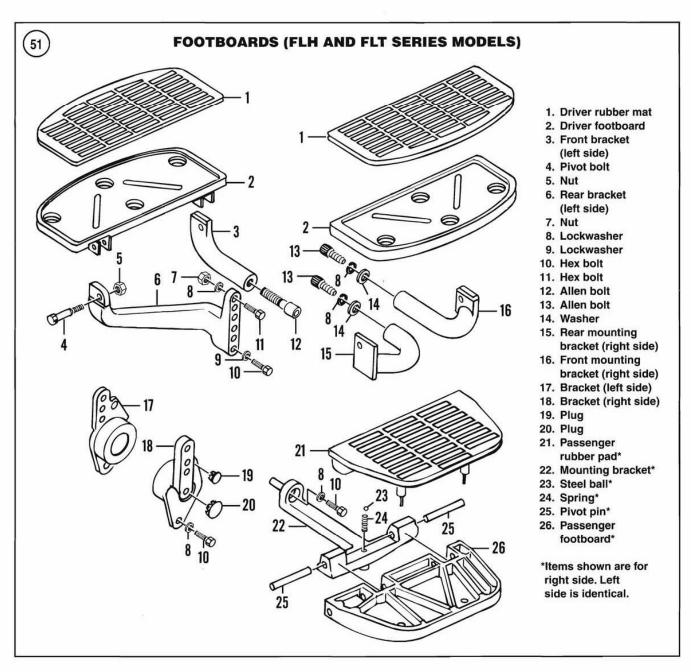
Refer to Figure 51.

- 1. Place the motorcycle on the jiffy stand.
- 2A. On the right side, perform the following:
 - a. Working on the inner side of the frame side rail, loosen and remove the Allen bolt, lockwasher and washer securing the front mounting bracket to the frame.

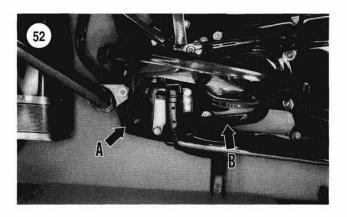








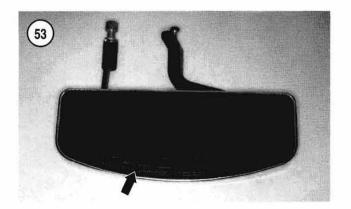
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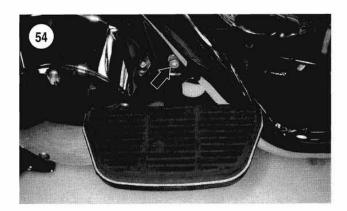


- b. Working on the inner side of the frame side rail, loosen and remove the upper hex bolt, lockwasher and washer as well as the lower hex bolt and lockwasher securing the rear mounting bracket to the frame.
- 2B. On the left side, working on the inner side of the frame side rail, loosen and remove the Allen bolts, lockwashers and washers securing the front (A, Figure 52) and rear mounting brackets (B) to the frame.
- 3. Remove the footboard assembly from the frame.
- 4. If necessary, remove the rubber pad (**Figure 53**) from the footboard and install a new one. Push the locating pins all the way through the footboard to secure the rubber pad in place.
- Inspect the pivot bolts and nuts for looseness. Replace if necessary.
- Inspect the footboard and the mounting brackets for damage and fractures. Replace as necessary.
- 7. Install the footboard onto the frame and securely tighten the Allen and hex bolts.

Passenger Footboard Removal/Installation

- 1. Place the motorcycle on the jiffy stand.
- 2. Remove the upper Allen bolt and lockwasher (**Figure 54**) and the lower hex bolt and lockwasher securing the passenger footpeg to the frame. Remove the footpeg.
- 3. Repeat for the other side if necessary.
- 4. If necessary, remove the rubber pad (**Figure 55**) from the footboard and install a new one. Push the locating pins all the way through the footboard to secure the rubber pad in place.
- 5. Inspect the pivot pins (**Figure 56**) for looseness. Replace if necessary.
- 6. Install the footboard onto the frame and tighten the hex bolt securely.







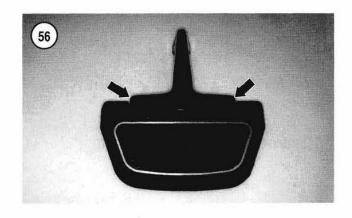


Table 1 BODY TORQUE SPECIFICATIONS

Item	inlb.	ftlb.	N∙m
Engine guard clamp bolt and nut	142	=	16
Fairing mounting bolts			
(1984-1992 FXRT and FXRD)			
1/4 in. bolts	97	-	11
5/16 in. bolts	-	19	26
Fairing brace bolts	124	9-0	14
Lower fairing U-bolt nuts	71	2 - 3	8
Outer fairing mounting bolts	142-168	n <u>→</u> n	16-19
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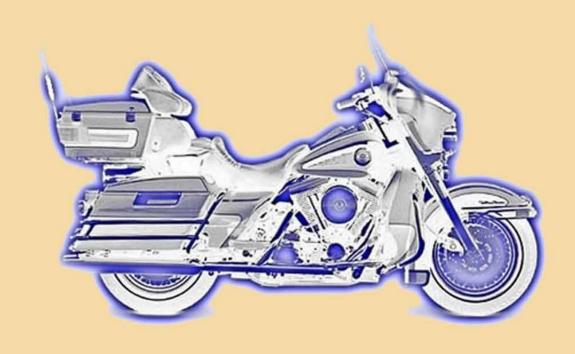
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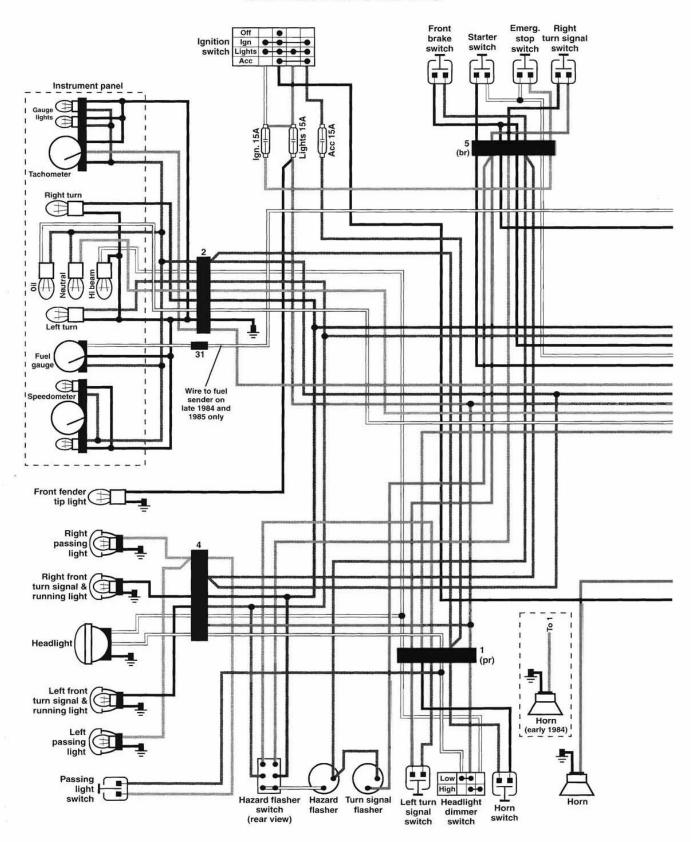
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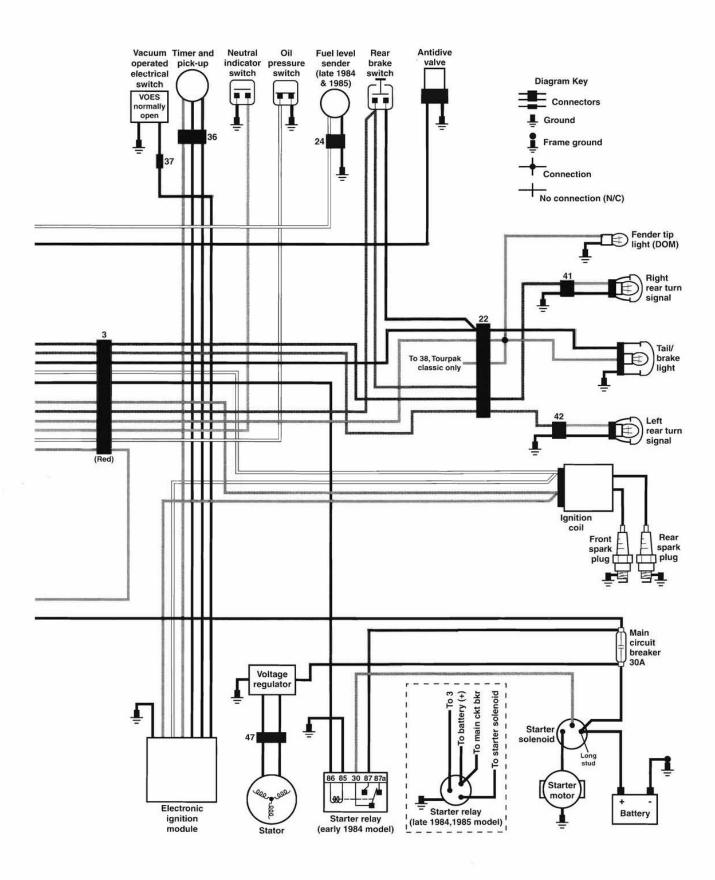
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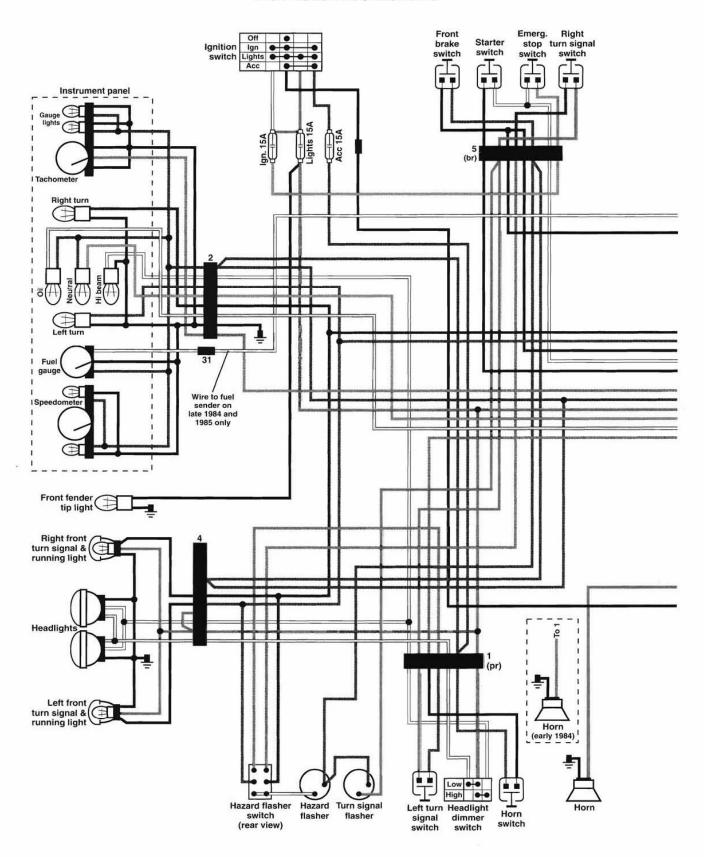
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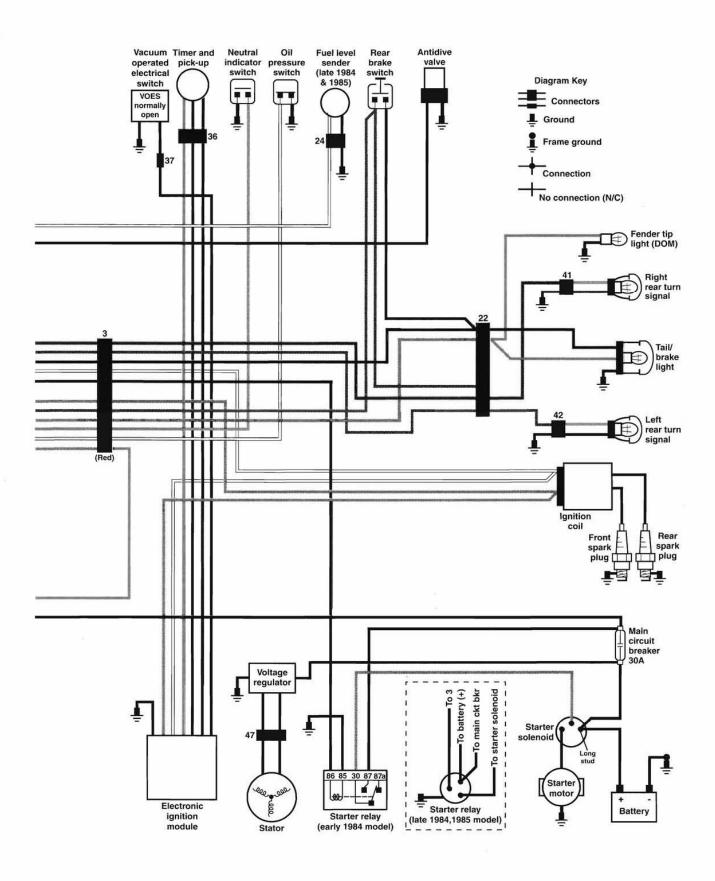
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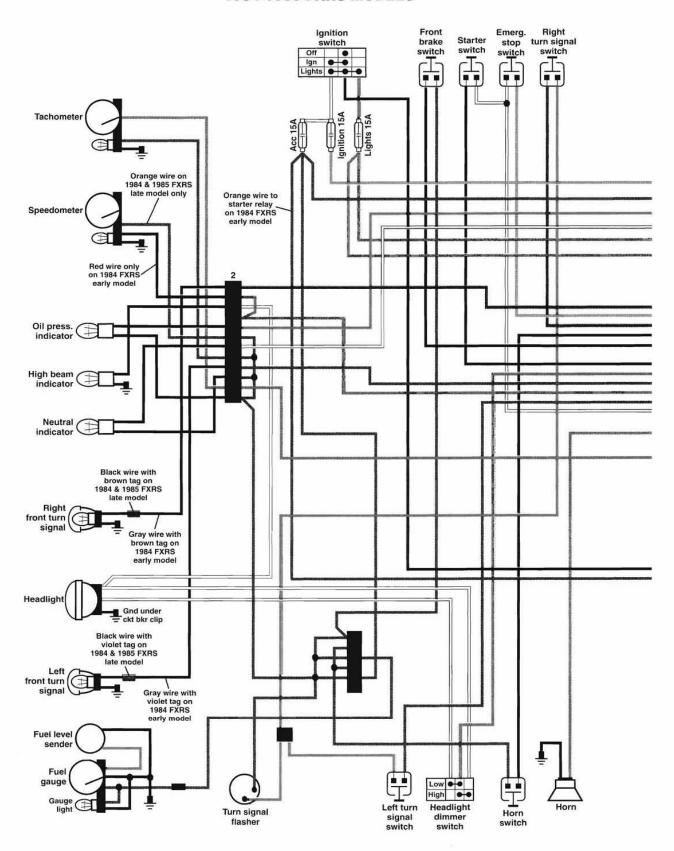


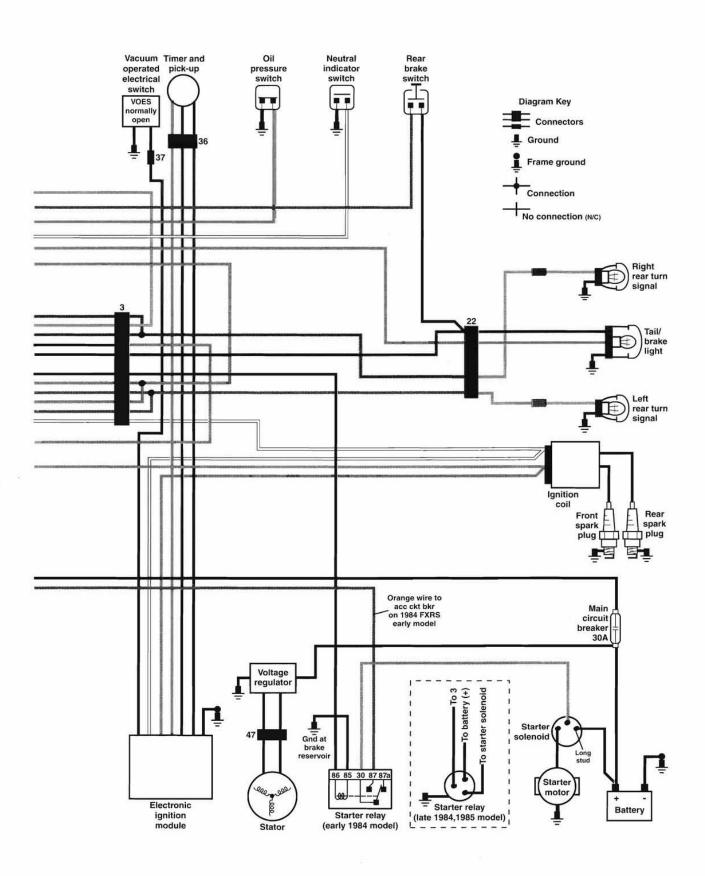
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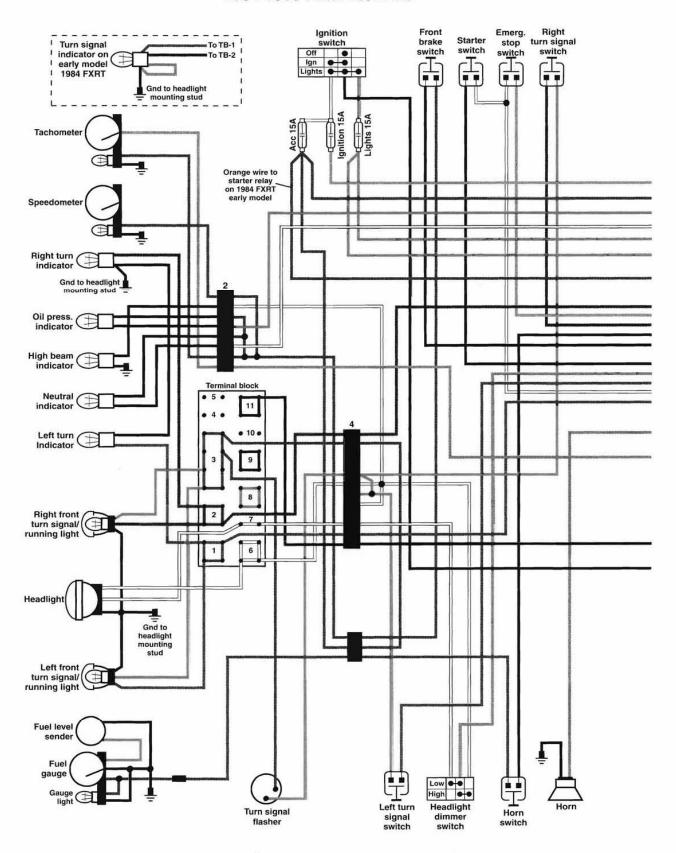


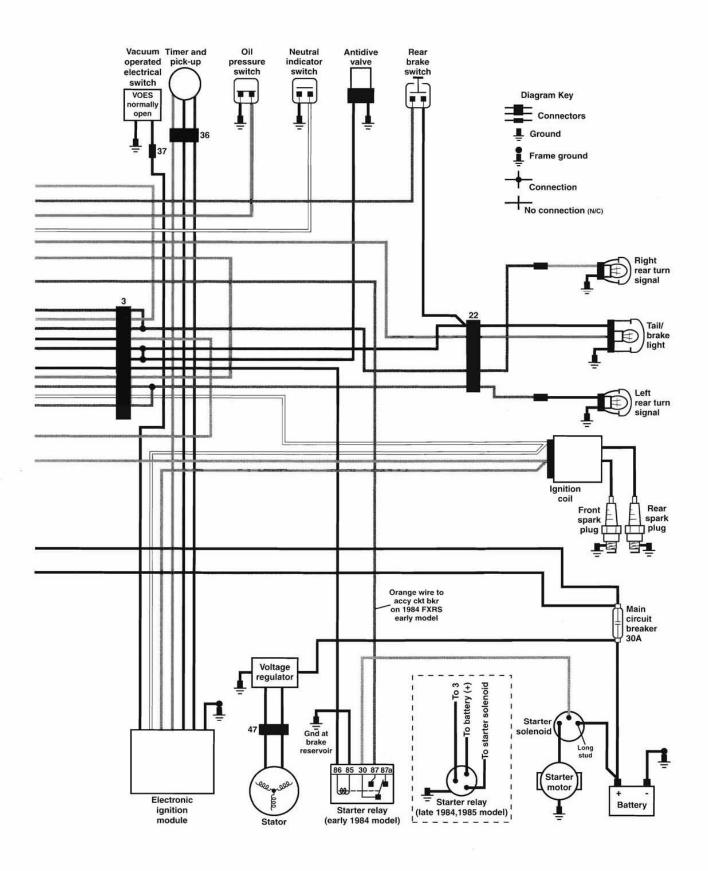
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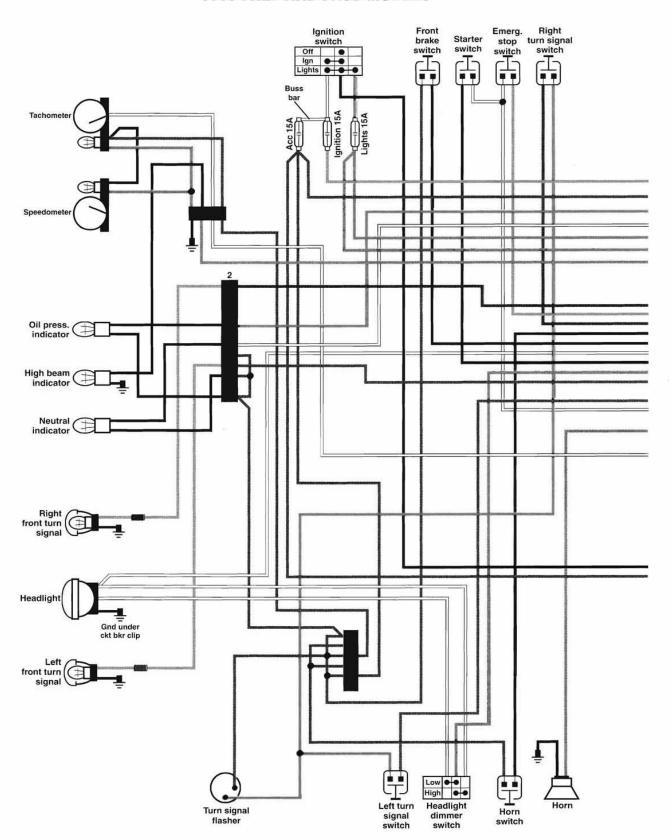


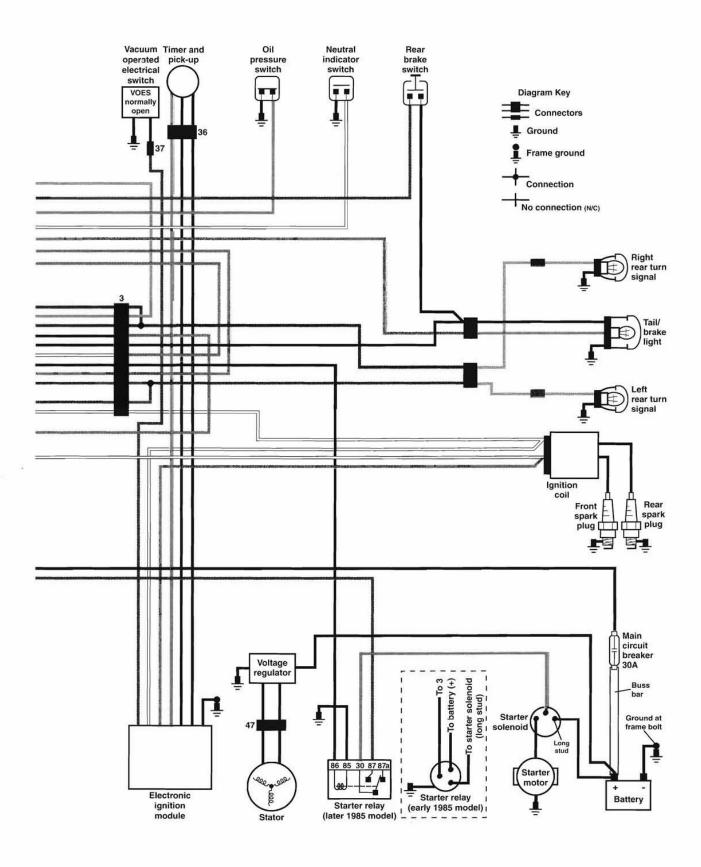
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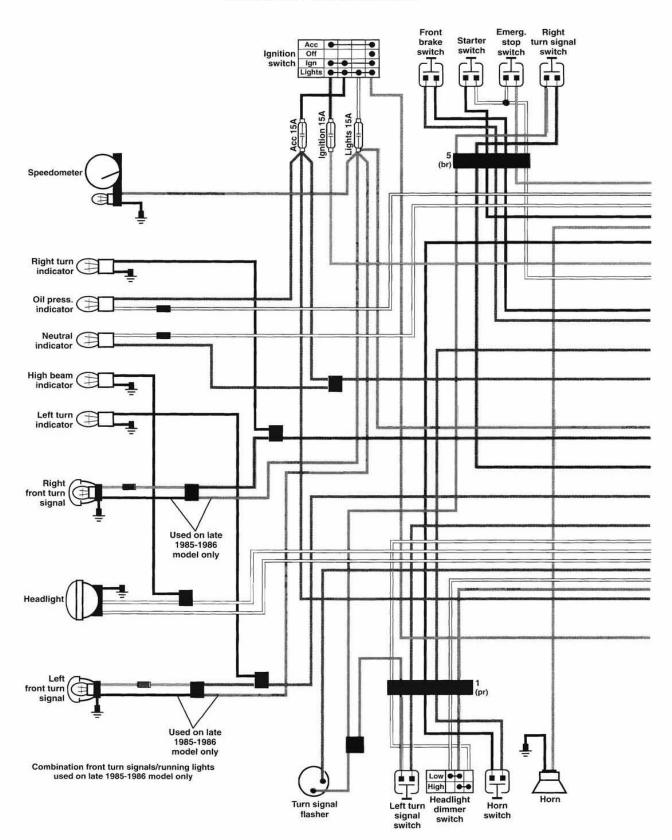


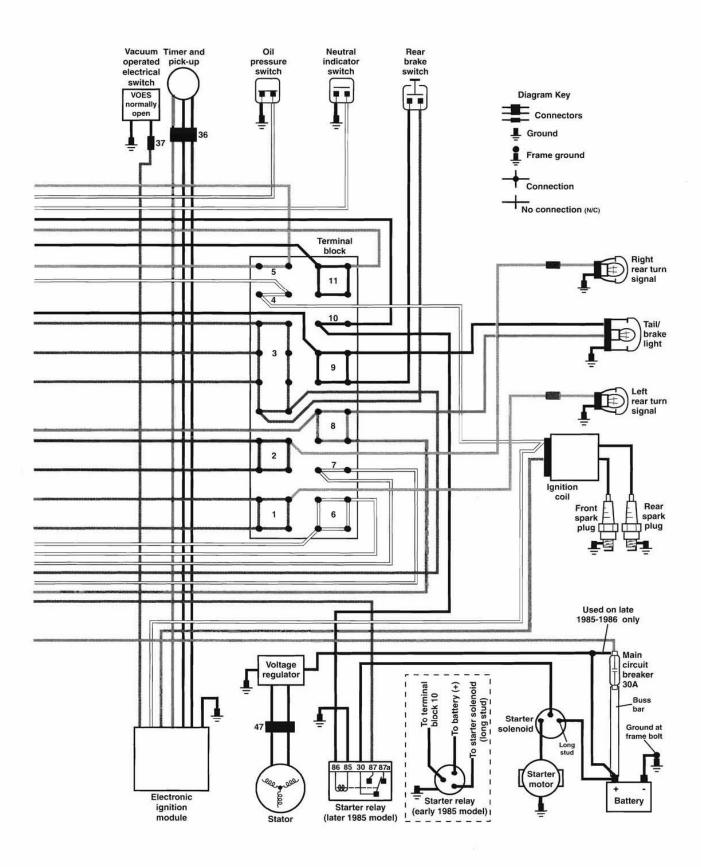
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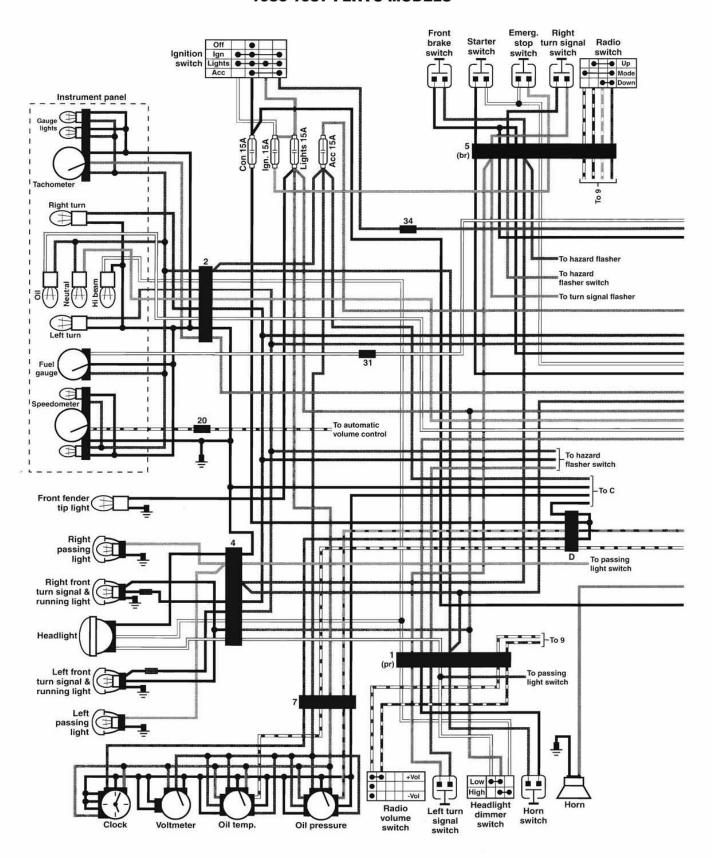


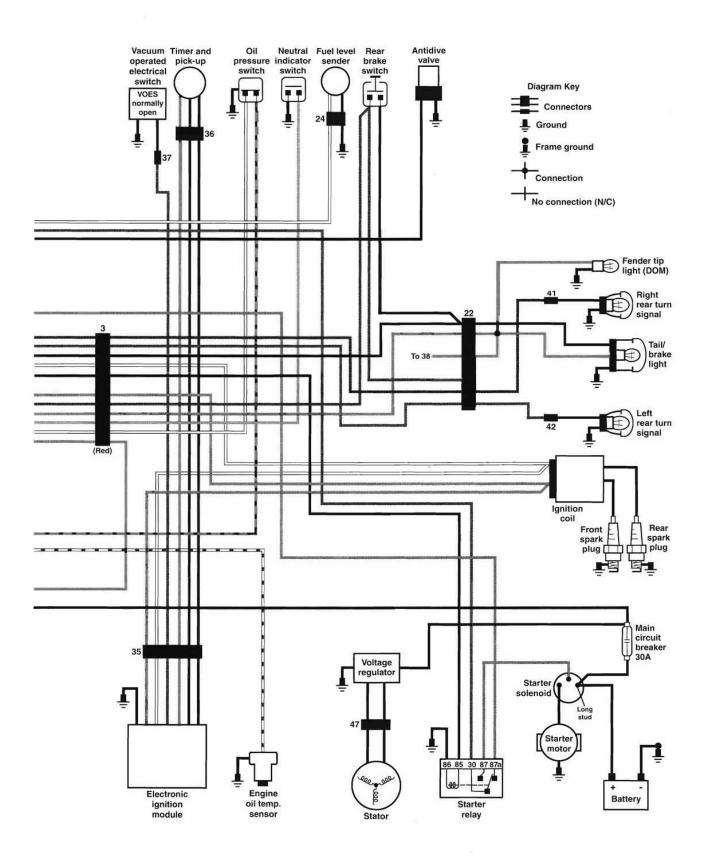
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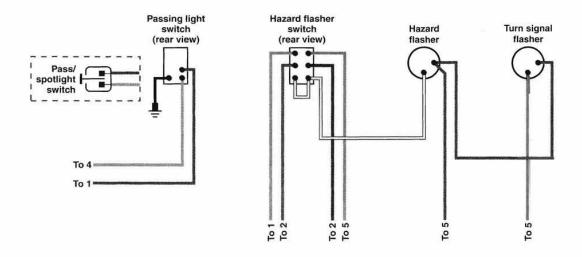


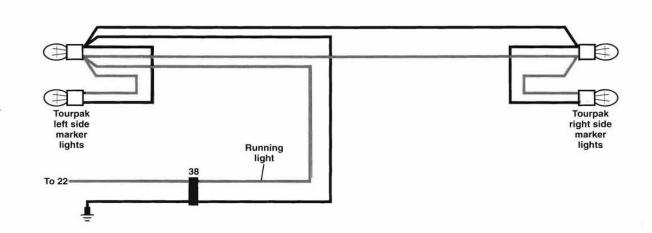
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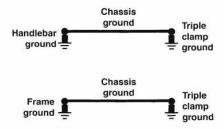




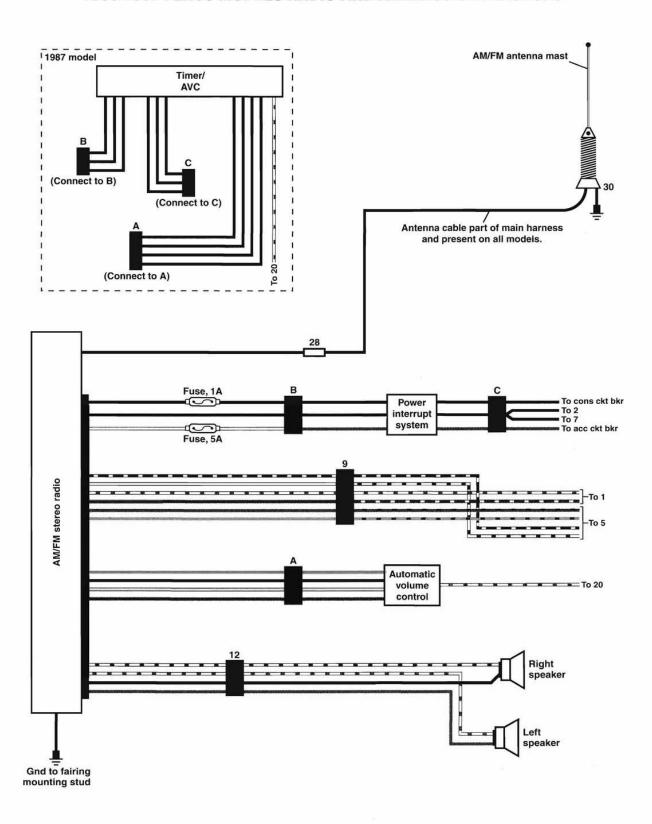
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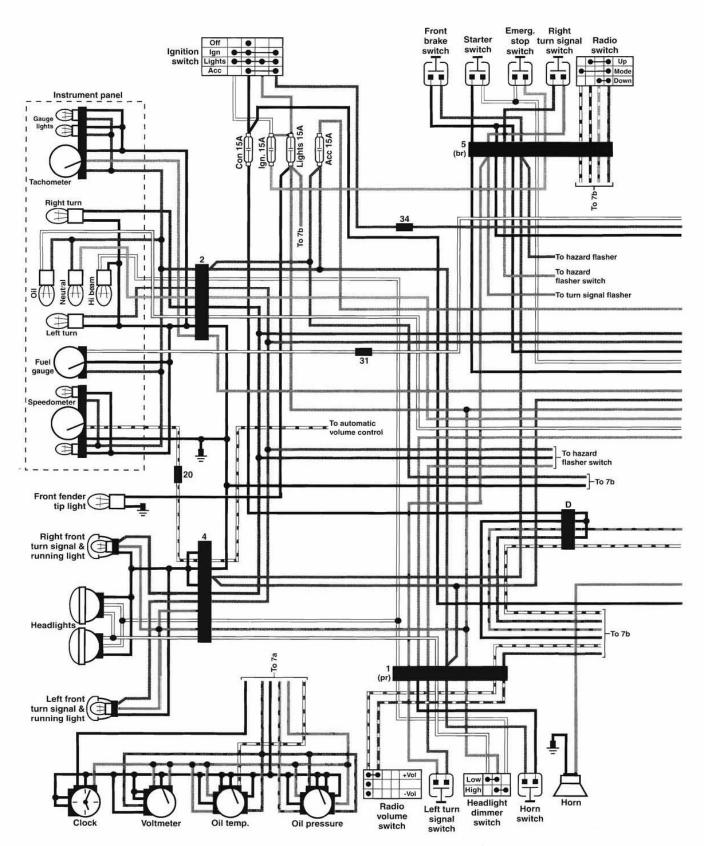


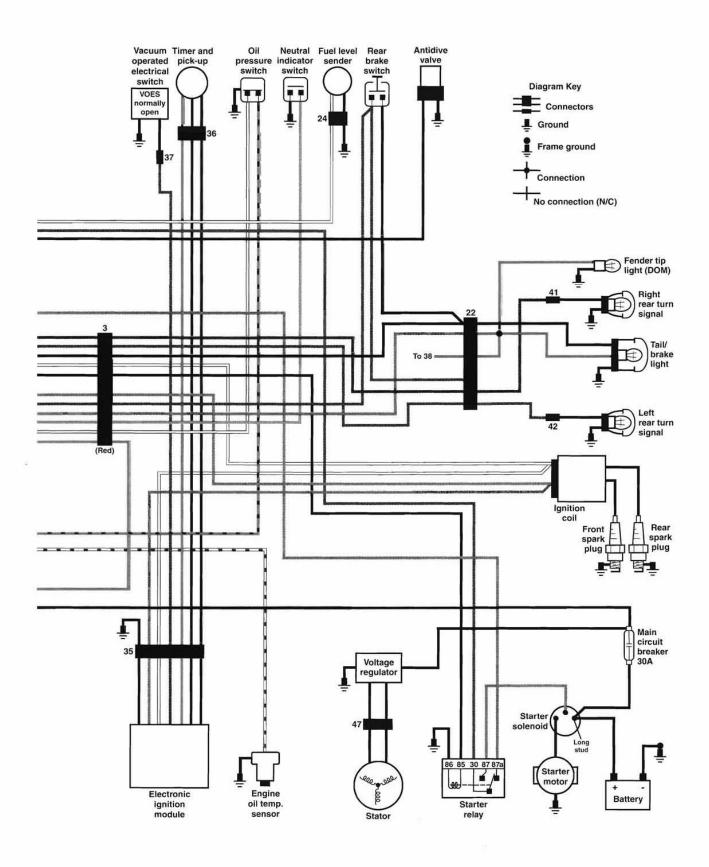


1986-1987 FLHTC MODELS RADIO AND HARNESS CONNECTORS



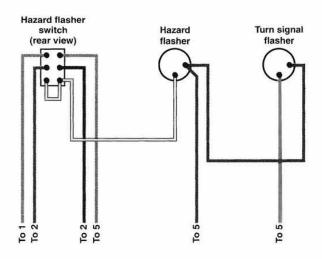
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WIRING DIAGRAMS

1986-1987 FLTC MODELS HAZARD SWITCH, TURN SIGNAL AND HAZARD FLASHERS, TOURPAK AND GROUNDS



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Running light

To 22

Chassis ground

Triple clamp ground

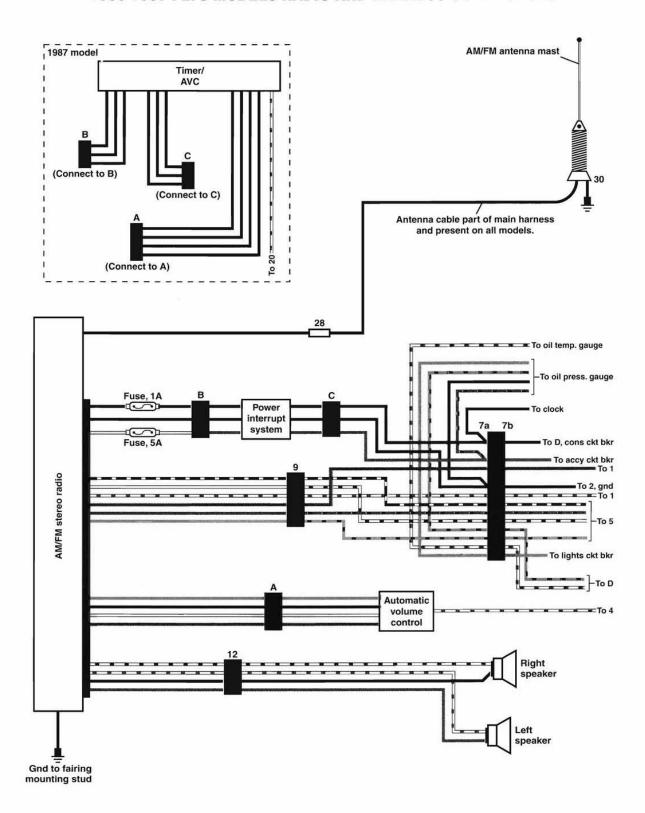
Chassis ground

Triple clamp ground

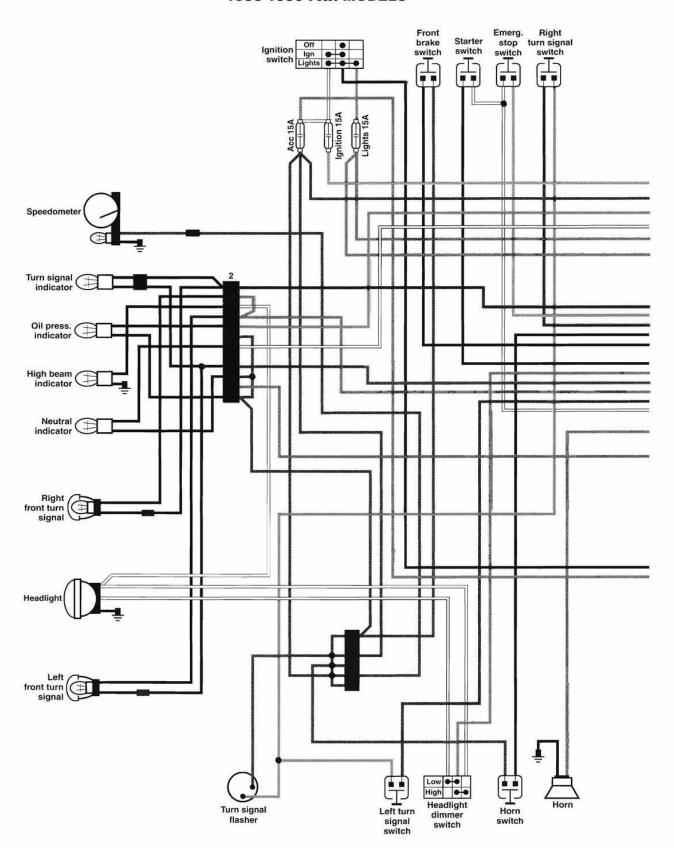
Triple clamp ground

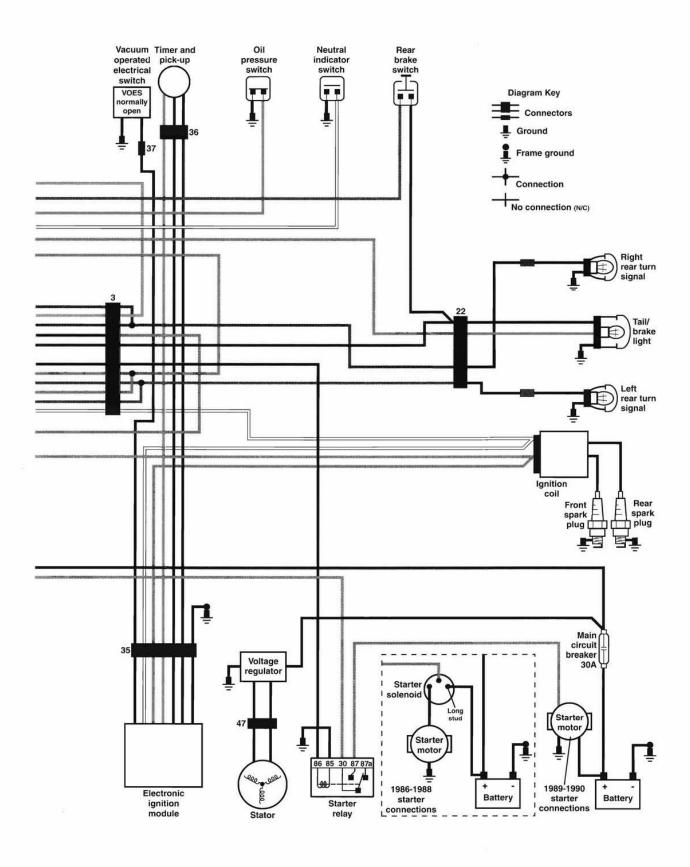
Triple clamp ground

1986-1987 FLTC MODELS RADIO AND HARNESS CONNECTORS

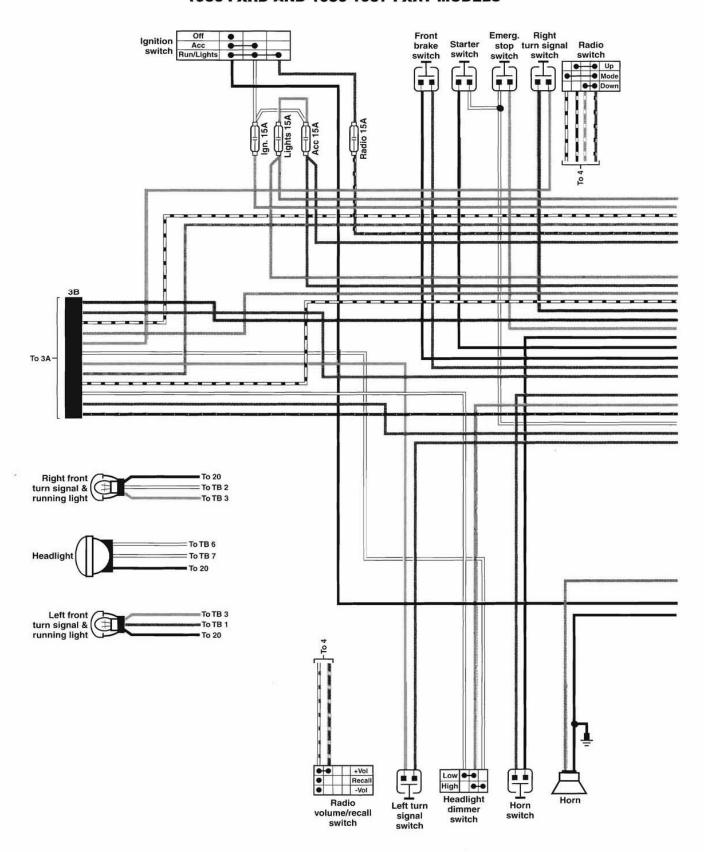


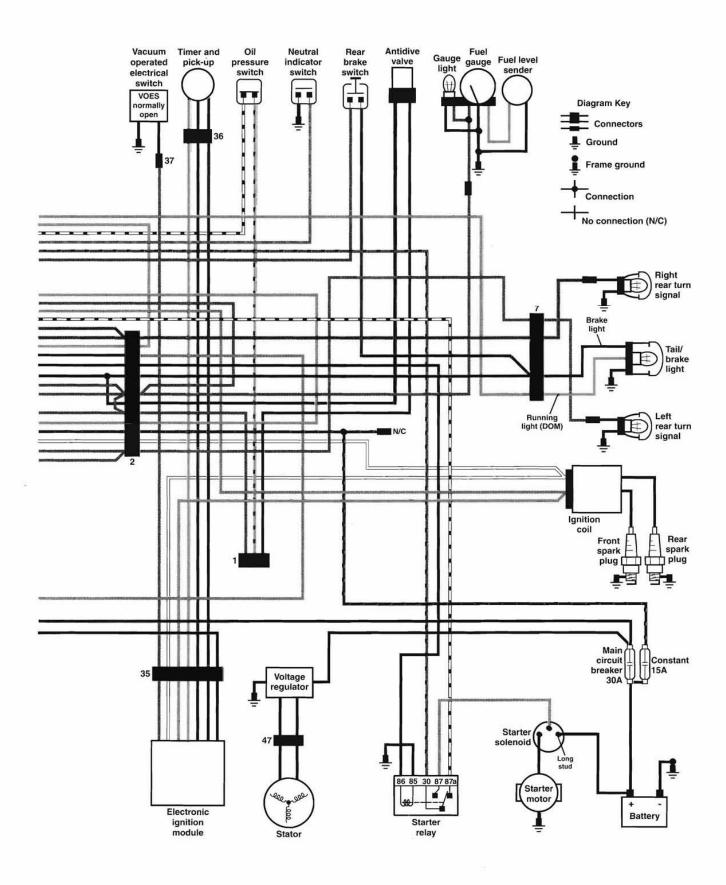
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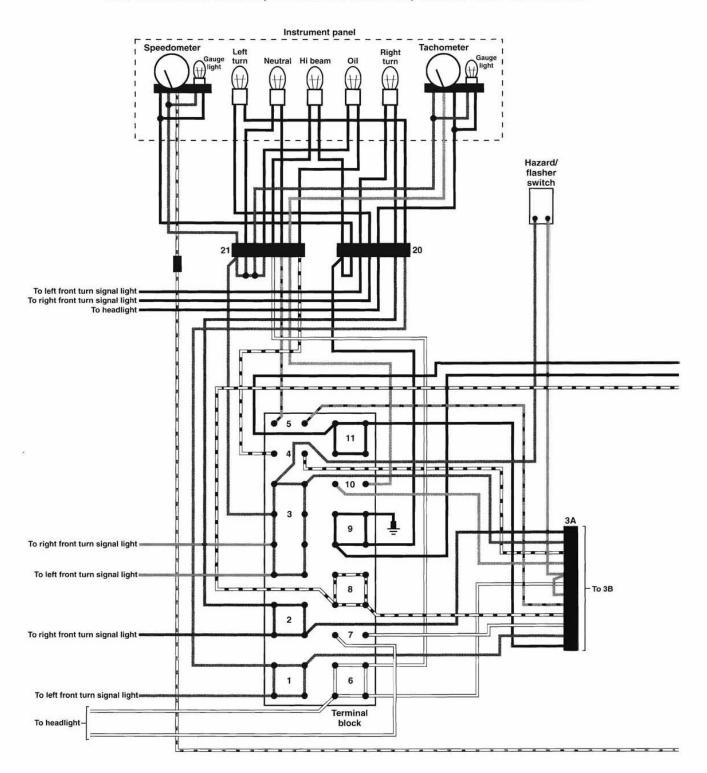


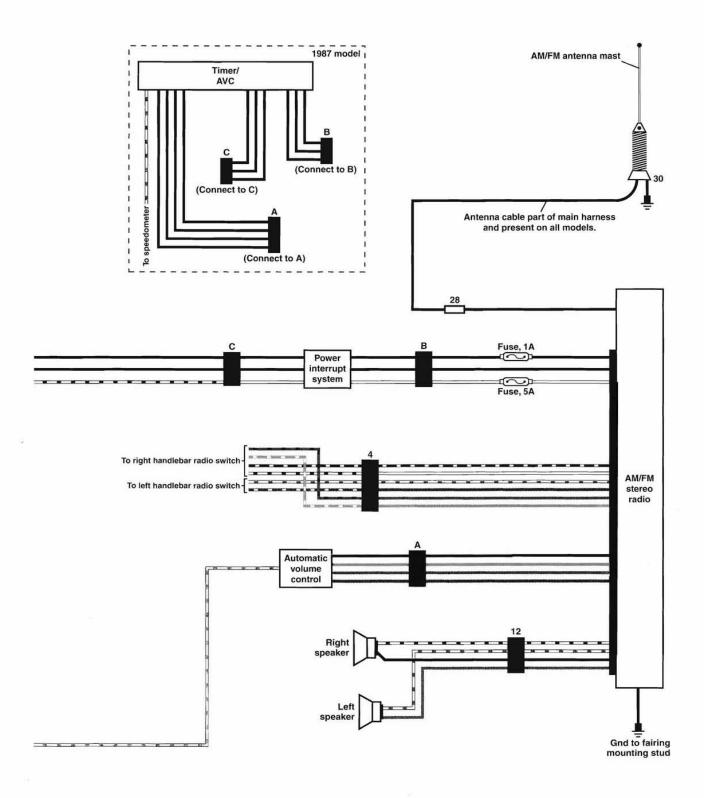
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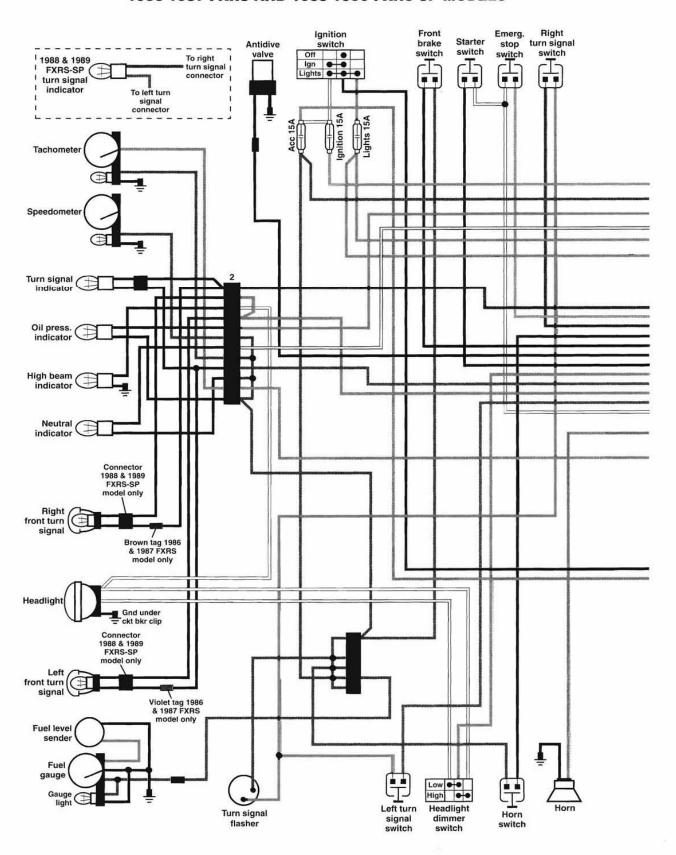


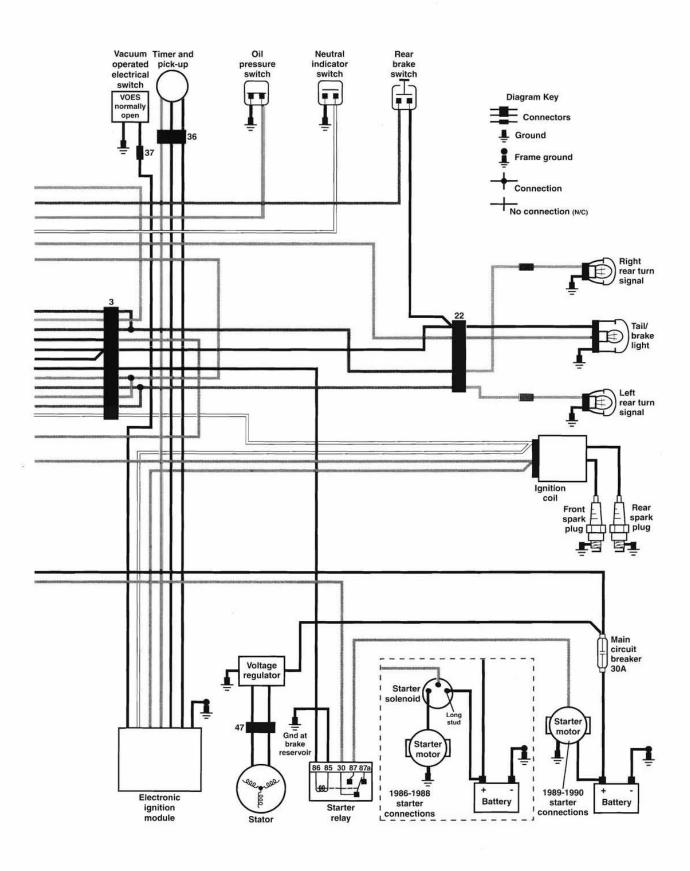
1986 FXRD AND 1986-1987 FXRT MODELS INSTRUMENT PANEL, TERMINAL BLOCK, RADIO AND ANTENNA



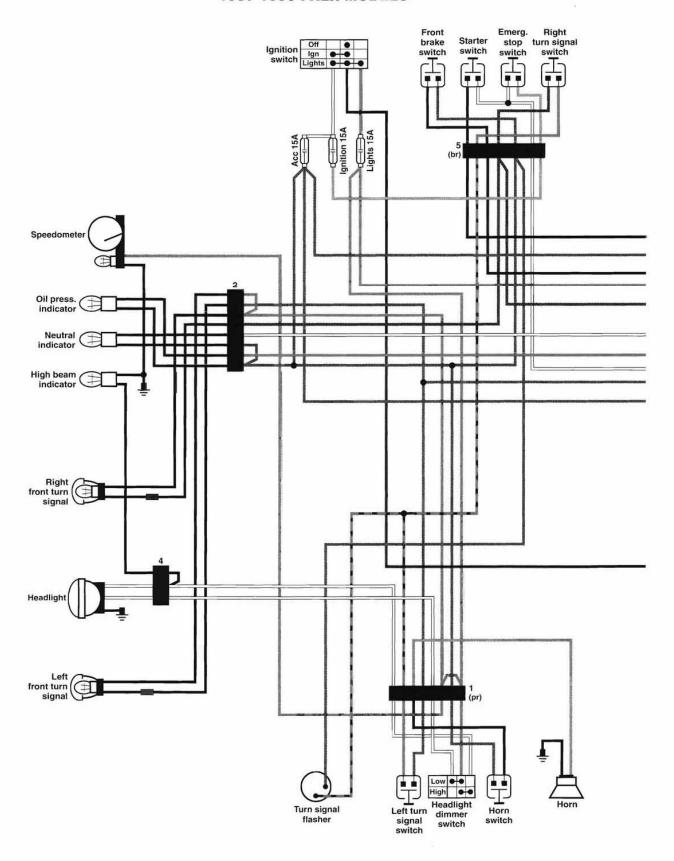


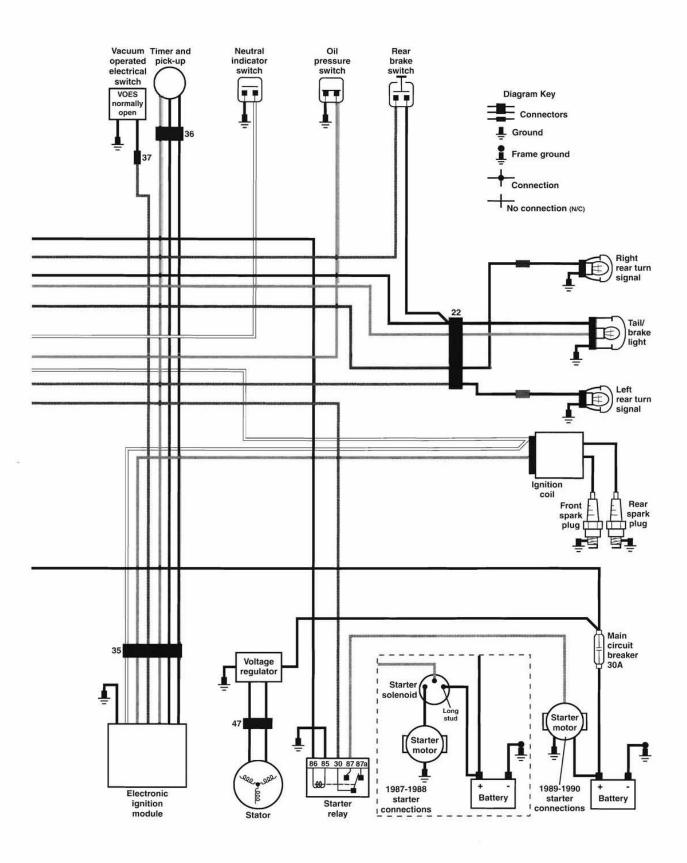
1986-1987 FXRS AND 1988-1990 FXRS-SP MODELS



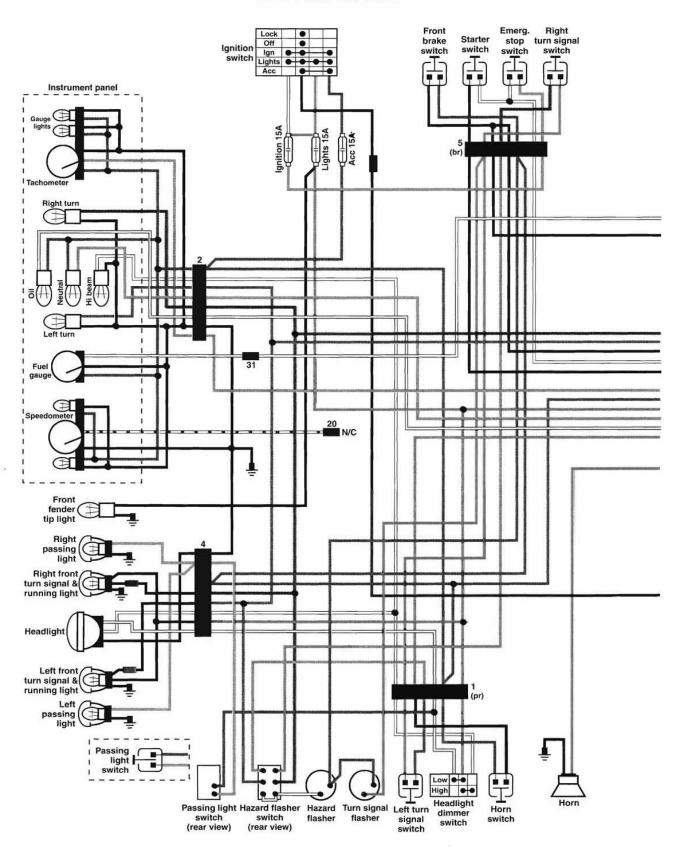


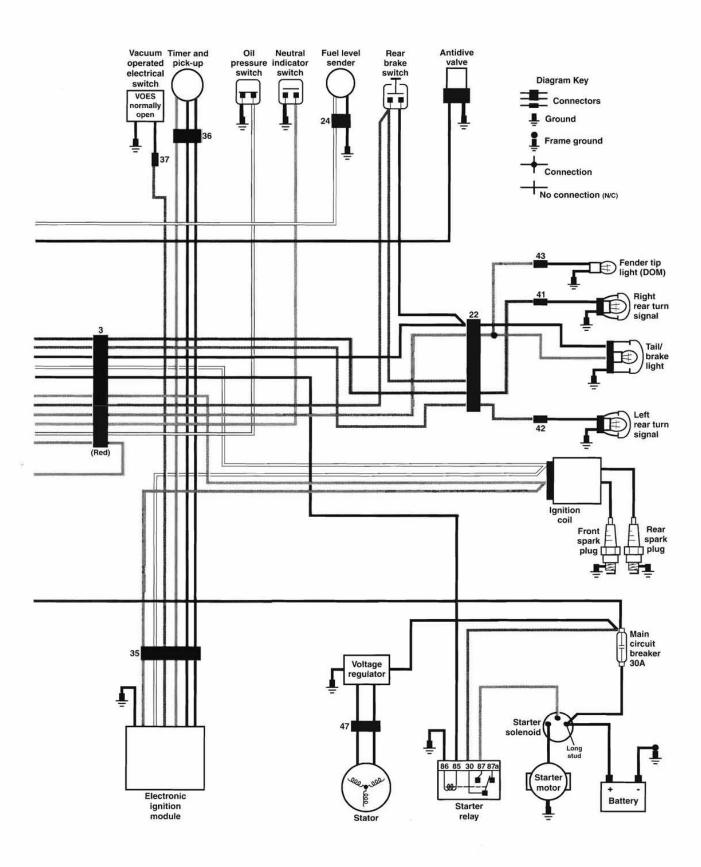
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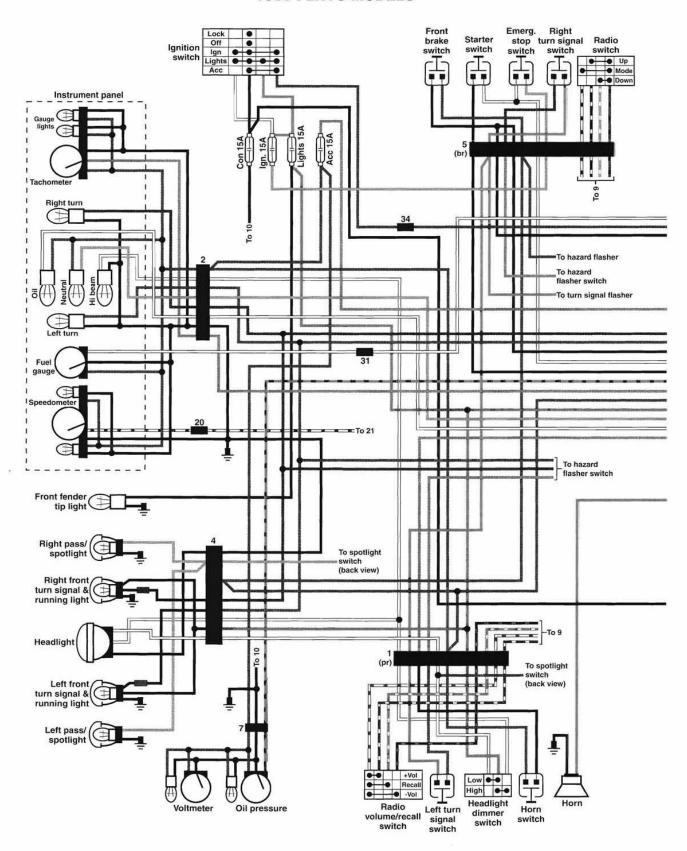


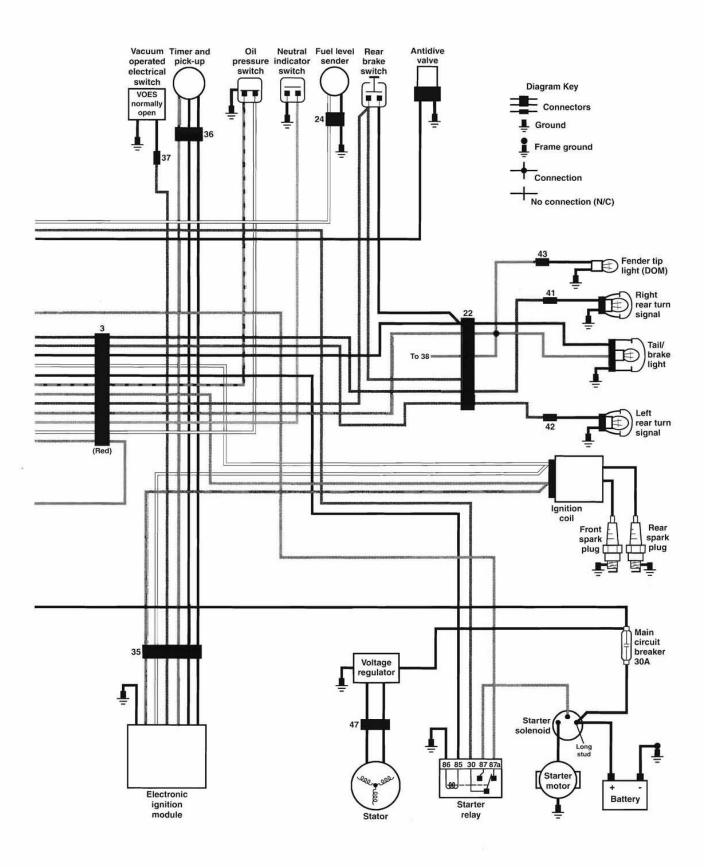
1988 FLHS MODELS



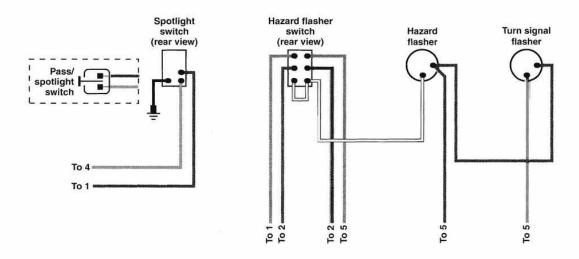


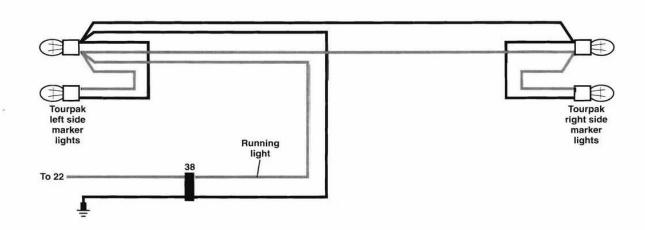
1988 FLHTC MODELS

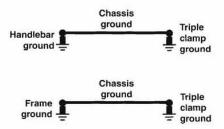




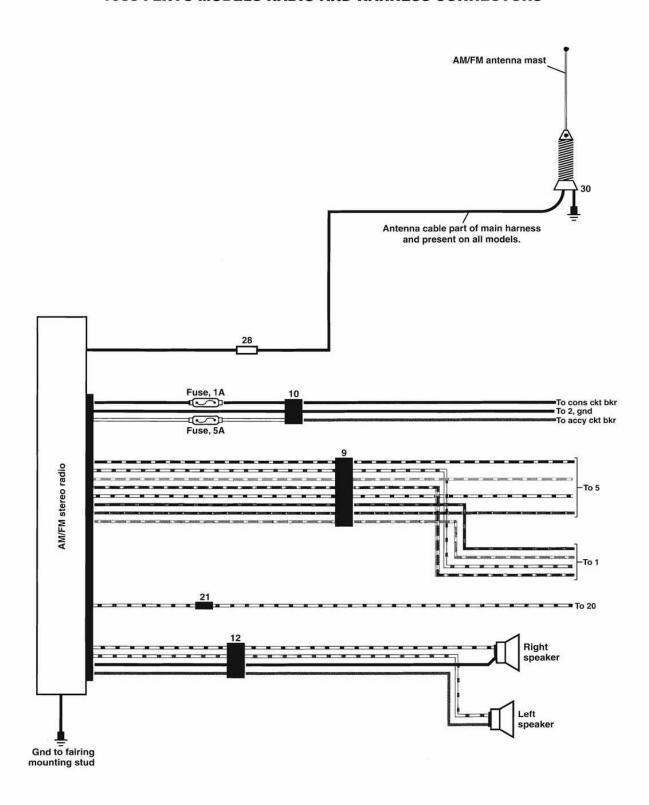
1988 FLHTC MODELS SPOTLIGHT SWITCH, HAZARD SWITCH, TURN SIGNAL AND HAZARD FLASHERS, TOURPAK AND GROUNDS



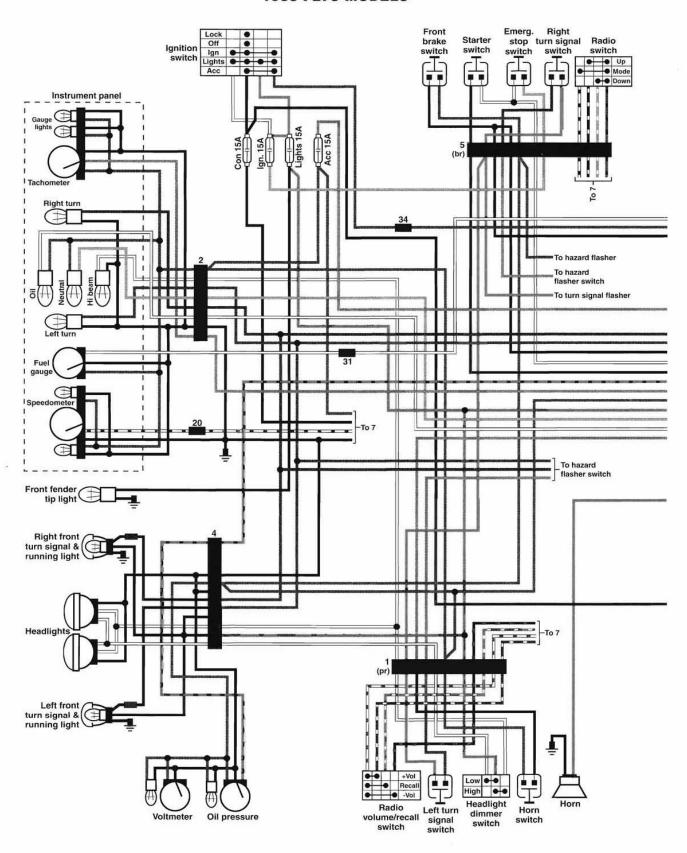


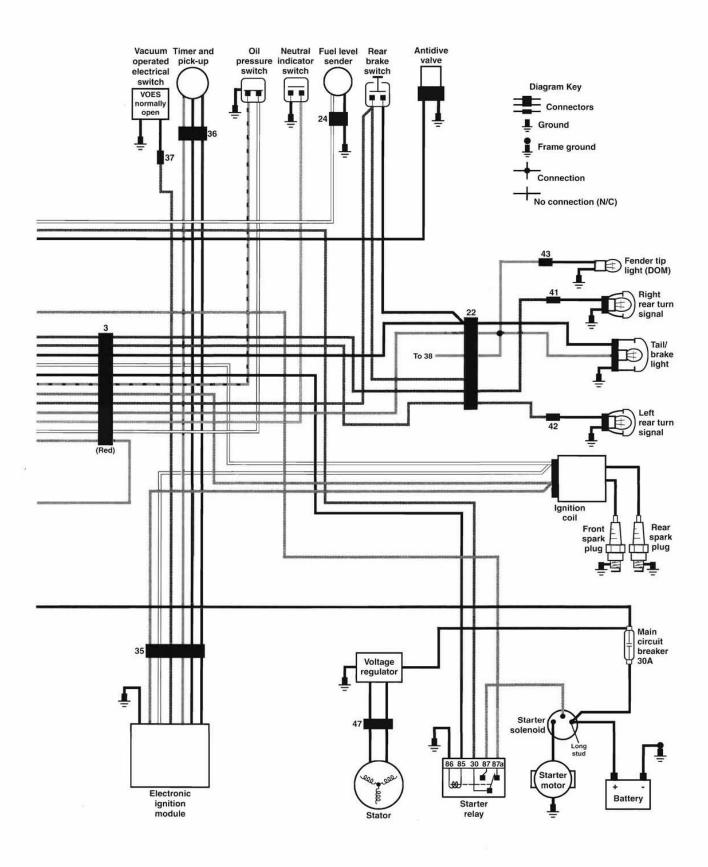


1988 FLHTC MODELS RADIO AND HARNESS CONNECTORS

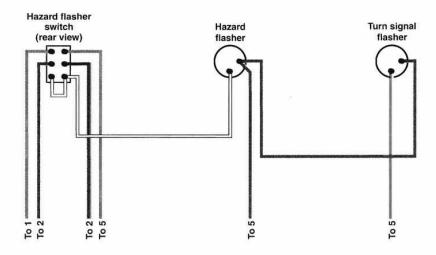


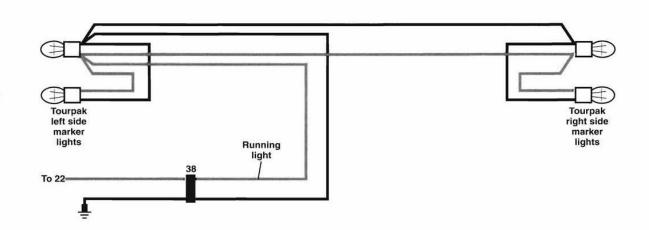
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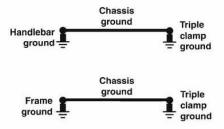




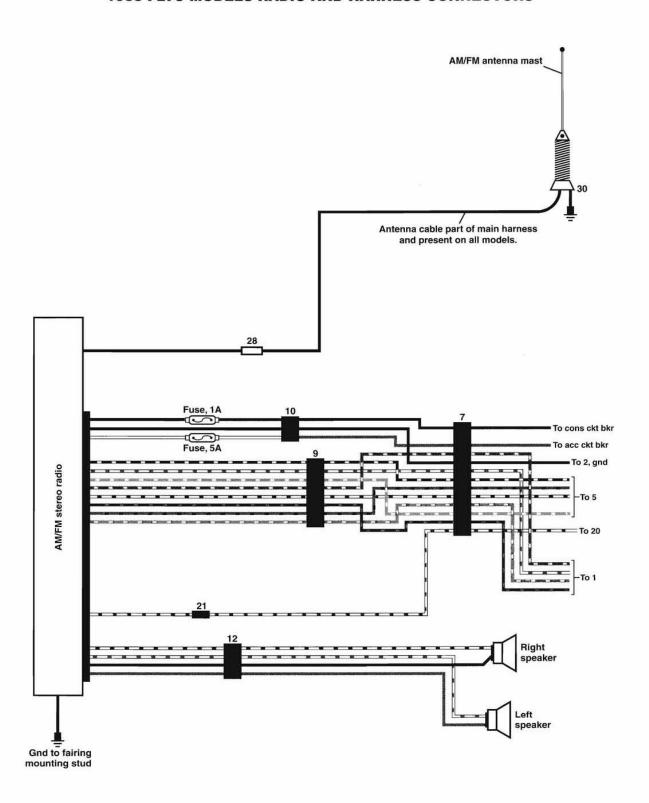
1988 FLTC MODELS HAZARD SWITCH, TURN SIGNAL AND HAZARD FLASHERS, TOURPAK AND GROUNDS



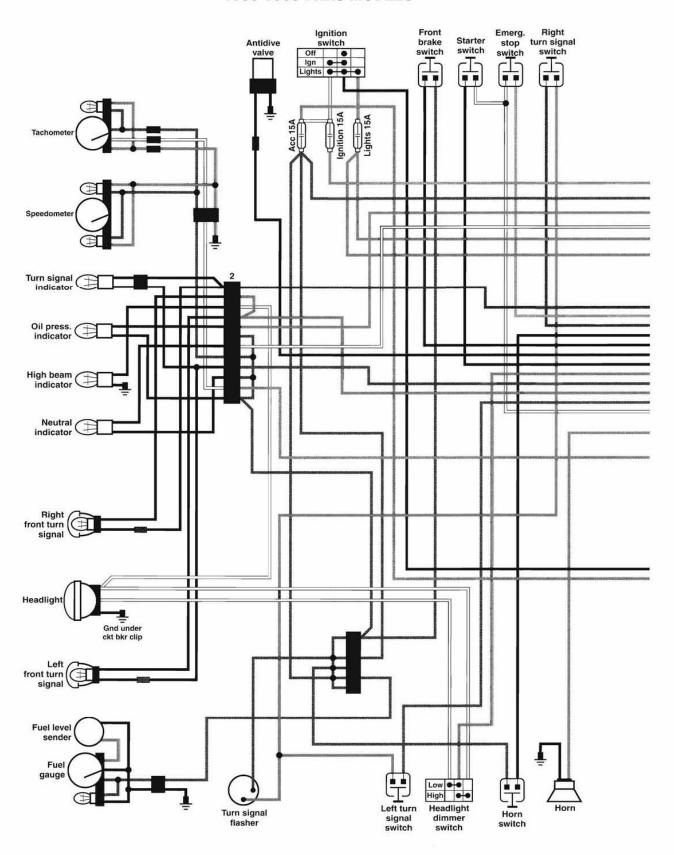


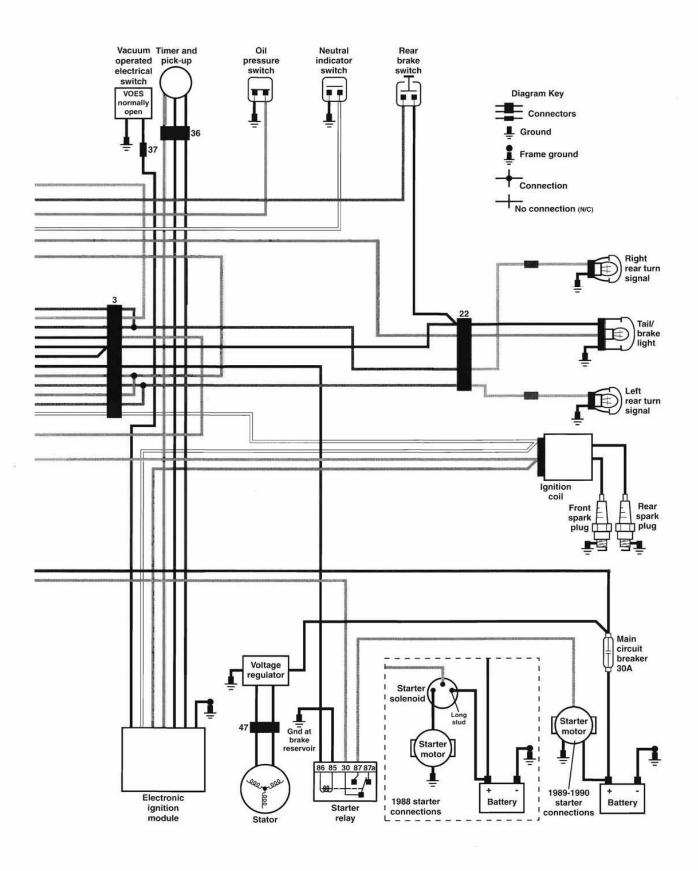


1988 FLTC MODELS RADIO AND HARNESS CONNECTORS

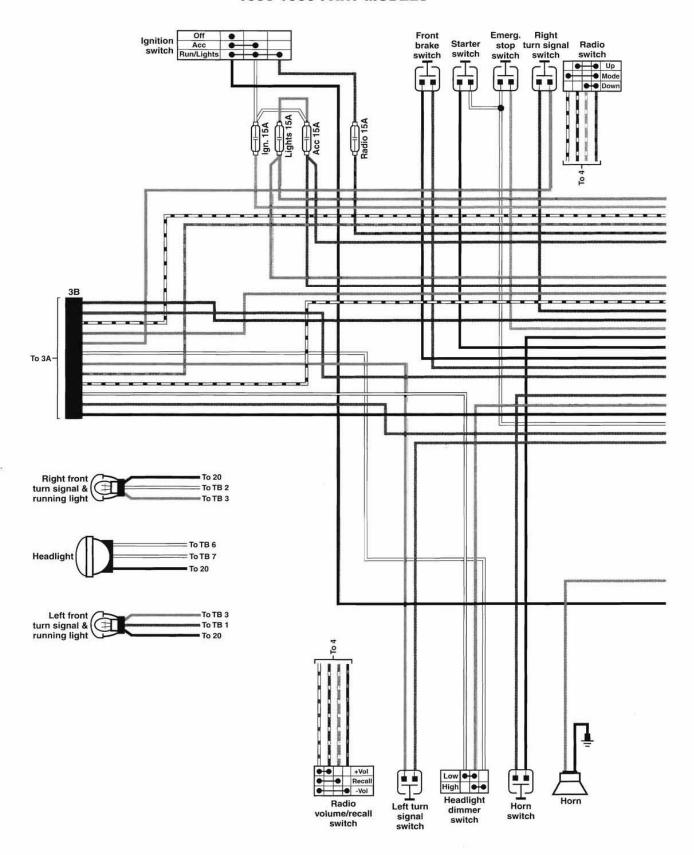


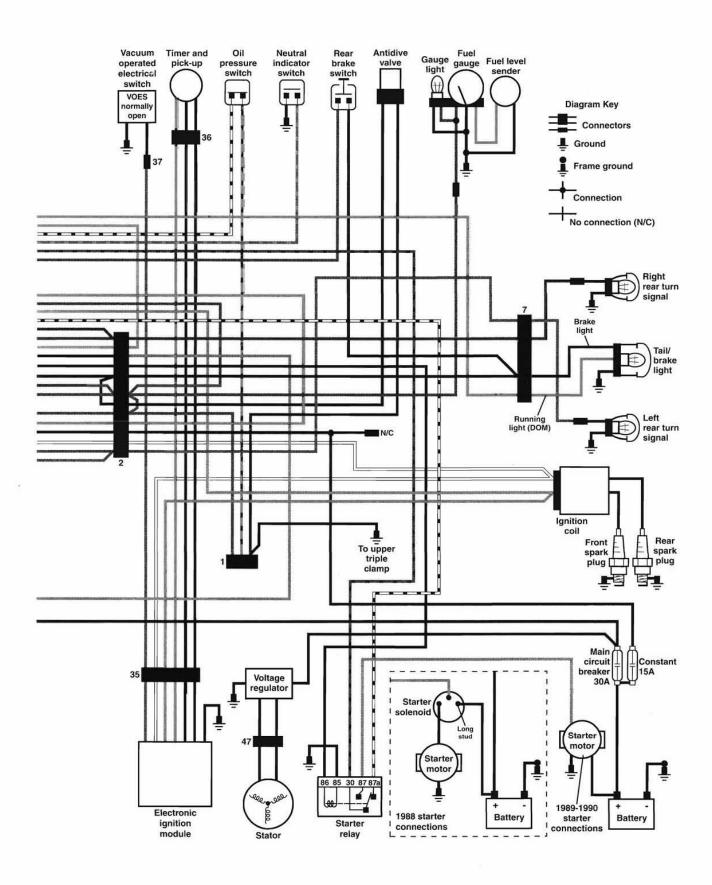
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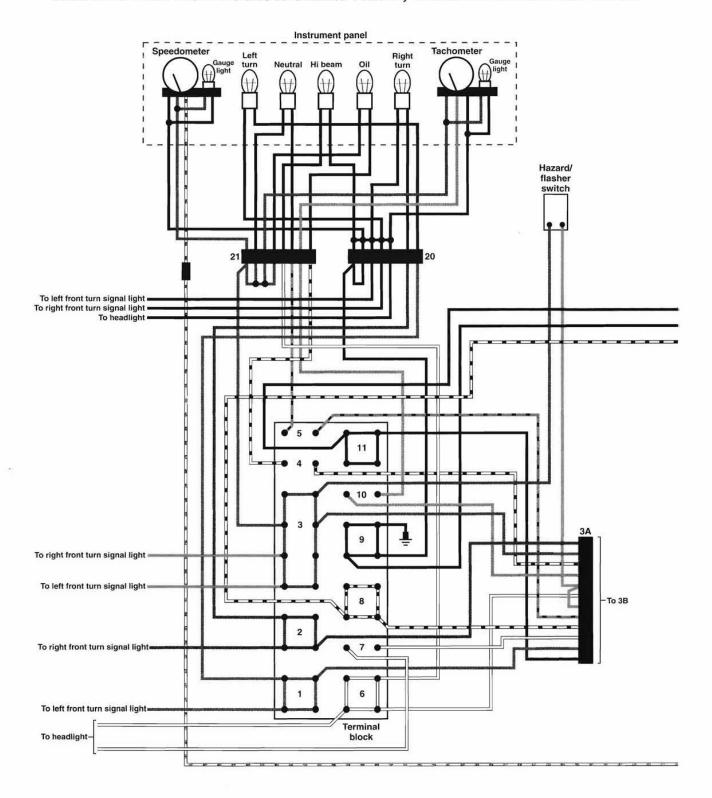


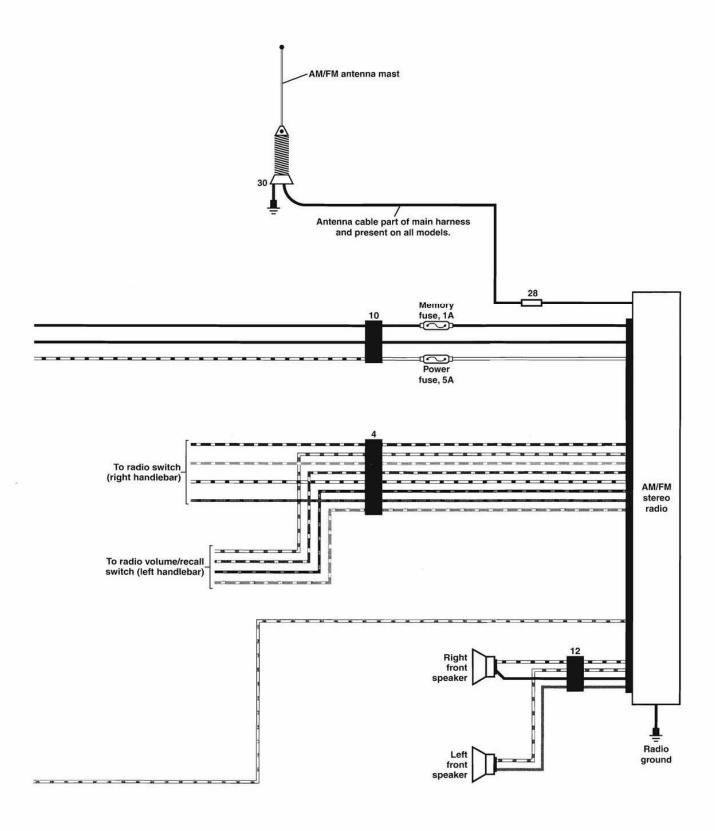
1988-1990 FXRT MODELS



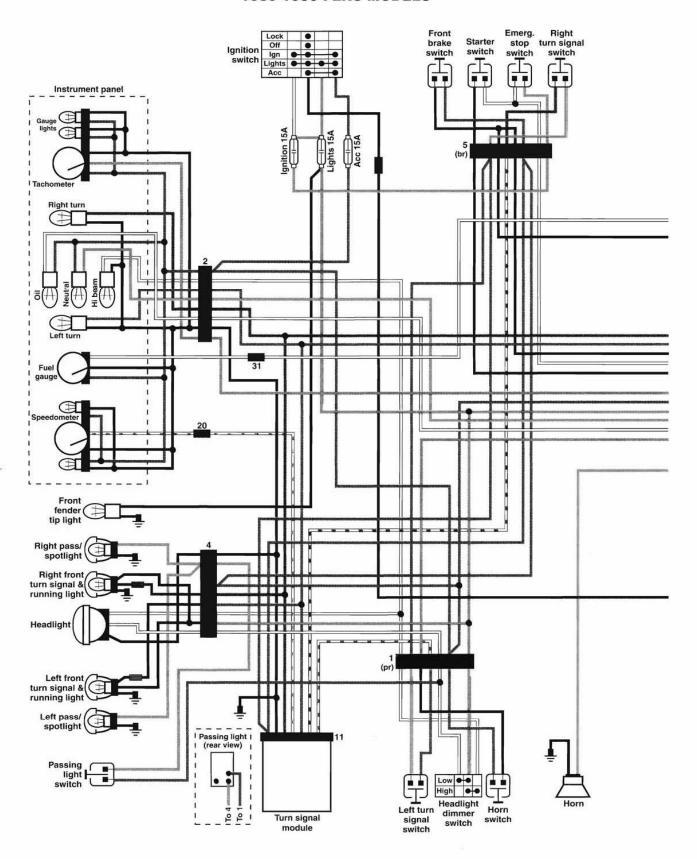


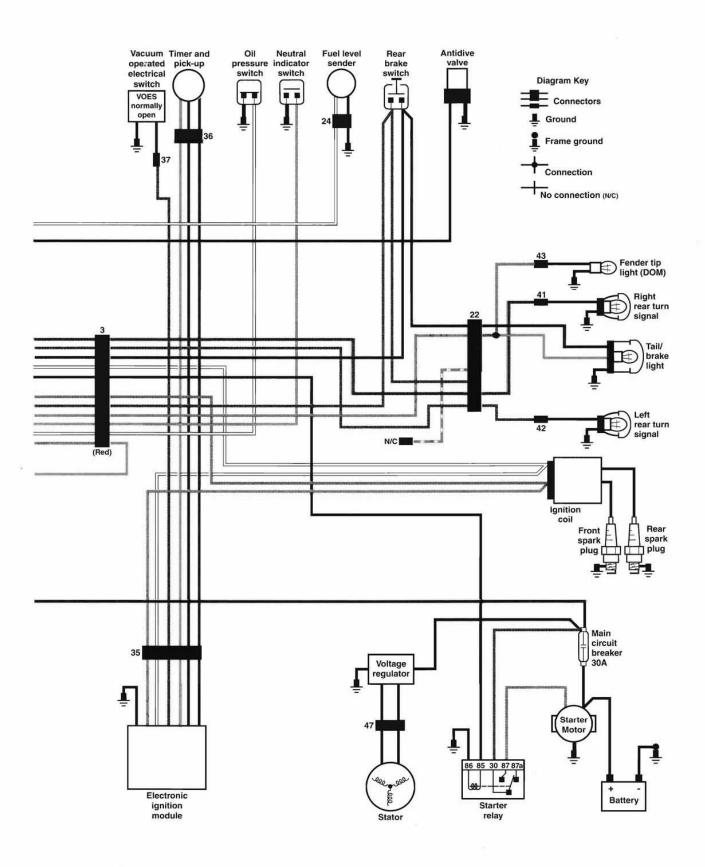
1988-1990 FXRT MODELS INSTRUMENT PANEL, TERMINAL BLOCK AND RADIO



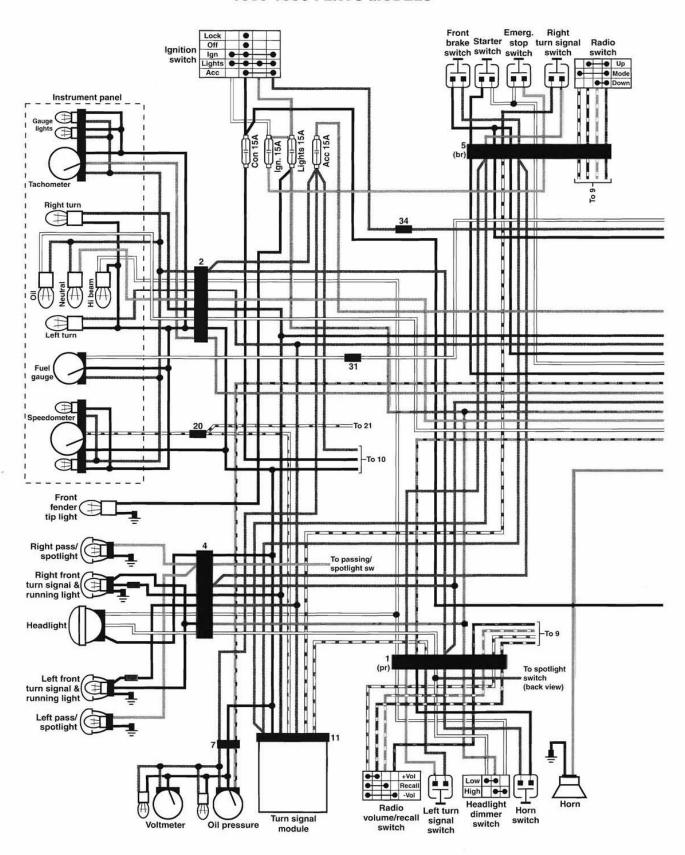


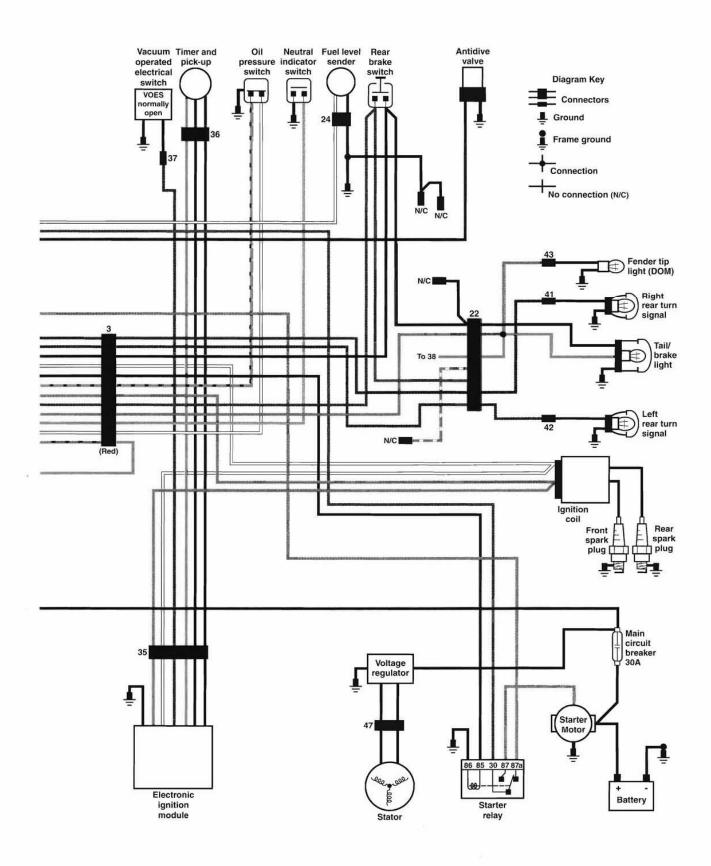
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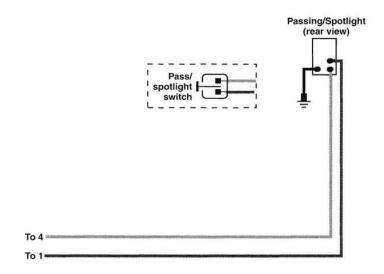


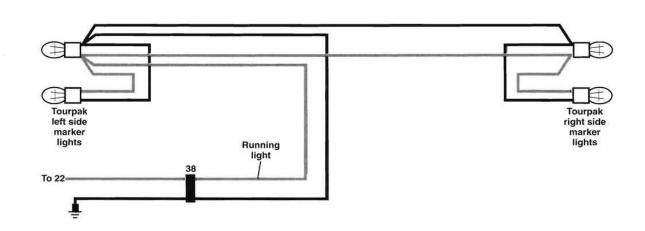
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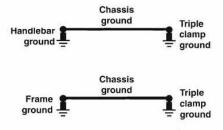




1989-1990 FLHTC MODELS DASH SWITCHES, TOURPAK AND GROUNDS







1989-1990 FLHTC MODELS RADIO, HARNESS CONNECTORS AND ANTENNA

