

-J00654

Kit Number Z0500.8

REV. 9-11-03

BUELL S2/S2T THUNDERBOLT TOURING HANDLEBARS

GENERAL

This touring handlebar kit is designed for installation on 1995/1996 Buell S2/S2T-Thunderbolt® Model Motorcycles.

Qty	Description	Part Number
2	Screw, handlebar	AA0614.2CZ
2	Nut, handlebar	DA0600.2CZ
1	Touring handlebar, left	N0033.8SS
1	Touring handlebar, right	N0022.8SS
1	Handlebar grip, left	56206-94A

REMOVAL OF STANDARD HANDLEBARS

Right Handlebar

1. Remove two screws to separate upper switch housing from lower housing. Spread upper and lower switch housings.
2. Loosen throttle cable adjusters. Unhook ferrules and cables from throttle control grip and lower housing.
3. Remove master cylinder mounting screws, washers and clamp. Free master cylinder assembly from handlebar.
4. Remove and retain handlebar mounting bolt. Discard nut.

NOTE

See Figure 1. If your motorcycle's handlebars have an internal wire harness (Style A) go to the next step. If you have an external wire harness (Style B), go to step 10.

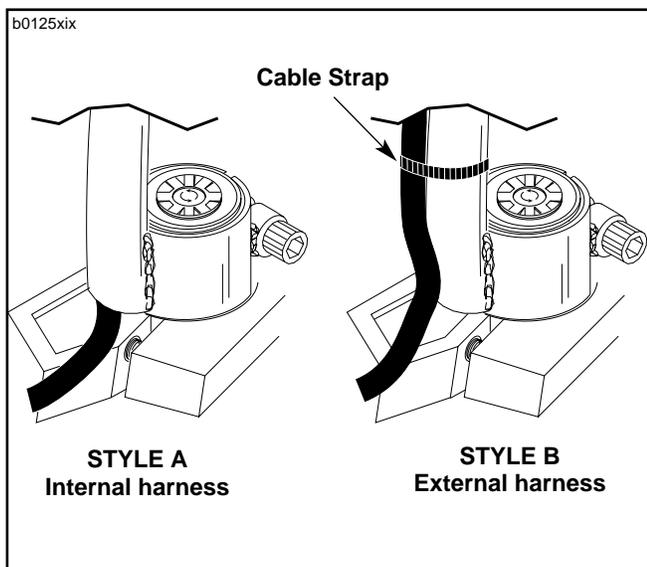


Figure 1. Standard Handlebars

5. Remove three dash panel screws and plastic washers. Lift dash panel up and to the left.
6. Cut cable strap securing main wiring harness to headlamp and right/left switch harnesses.

NOTE

To simplify installation, mark the top side of each connector in the next step. Failure to do so may lead to twisted wire harnesses upon assembly.

7. See Figure 2. Unplug pin and socket connectors [B, 12-pin and C, 6-pin]. Remove connectors one at a time from fairing bracket. Mark top side of each connector for reference.
8. See Figures 2 and 3. Extract the appropriate pins from the 12-pin connector [B] and 6-pin connector [C] using PIN TERMINAL REMOVER (Part No. HD-39621-28).
9. Remove right handlebar from front fork. While grasping the switch housing halves, carefully draw the wiring harness through the inside diameter of the handlebar.
10. Cut cable strap holding external wiring harness to handlebar. Remove right handlebar from front fork.

Left Handlebar

1. Remove two screws to separate upper switch housing from lower housing. Spread upper and lower switch housings.
2. Remove clutch control clamp screws and washers. Separate assembly of clutch cable upper section, clutch control and clutch lever bracket from left handlebar.
3. Remove and retain handlebar mounting bolt. Discard nut.

NOTE

See Figure 1. If your motorcycle's handlebars have an internal wire harness (Style A) go to the next step. If you have an external wire harness (Style B), go to step 6.

4. See Figures 2 and 4. Extract the appropriate pins from the 12-pin connector [B] and the 6-pin connector [C] using PIN TERMINAL REMOVER (Part No. HD-39621-28). Disconnect the two single pin connectors [yellow and white].
5. Remove left handlebar from front fork. While grasping the switch housing halves, carefully draw the wiring harness through the inside diameter of the handlebar.
6. Cut cable strap holding external wiring harness to handlebar. Remove left handlebar from front fork.

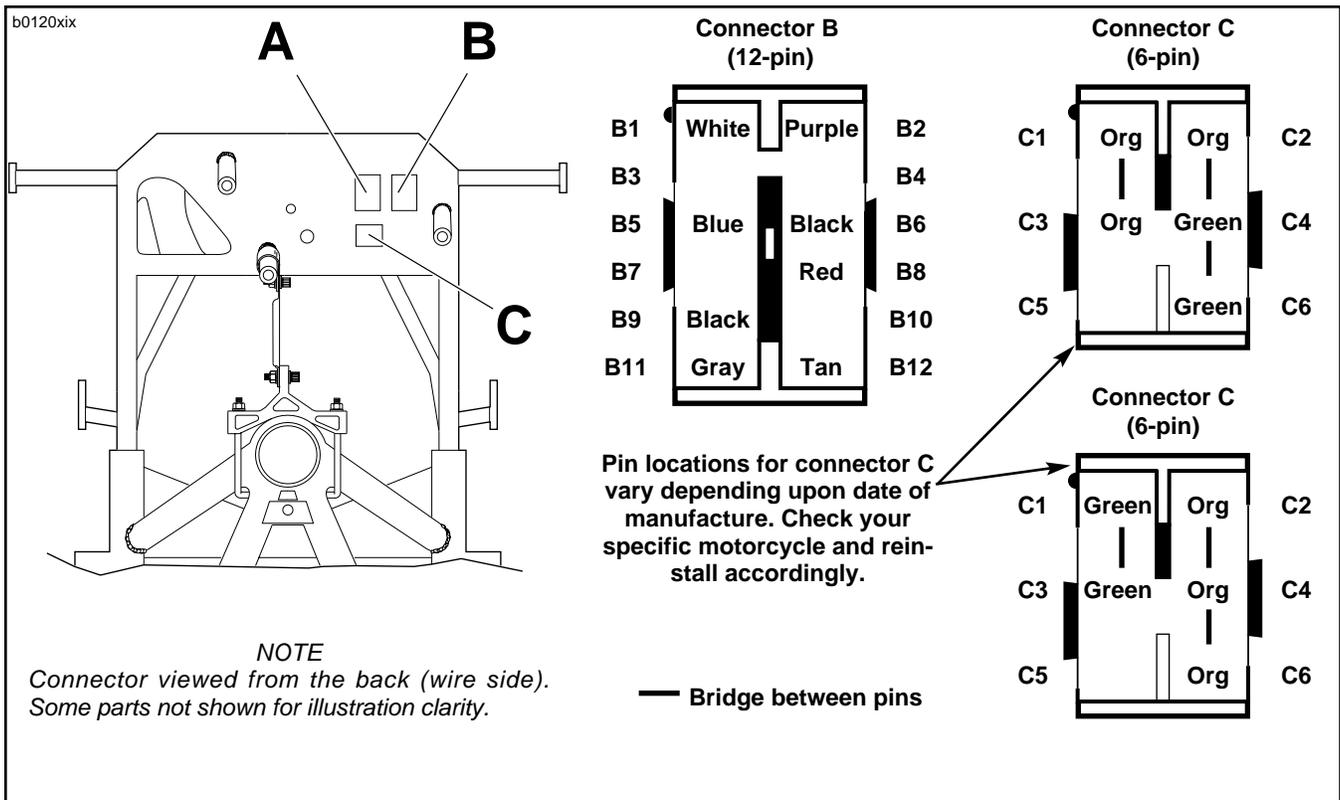


Figure 2. Fairing Bracket Connectors

INSTALLATION OF TOURING HANDLEBARS

Right Touring Handlebar

1. Mount right touring handlebar loosely on top of fork leg using bolt and new nut supplied with kit.
2. Fasten master cylinder assembly to handlebar by installing clamp, screws and washers. Do not final tighten at this time.
3. Attach cable assemblies to lower housing. Throttle control cable has a 5/16 inch (7.9 mm) fitting end and is positioned to front of lower housing. Idle control cable has a 1/4 inch (6.3 mm) fitting end and is positioned to rear of lower housing.
4. Install throttle control grip over end of right handlebar. Position lower switch housing onto right handlebar, engaging lower housing with throttle control grip. Position ferrules over cable ball ends, then seat ferrules (with cables attached) in their respective notches of the throttle control grip.
5. Adjust final throttle control freeplay according to THROTTLE CONTROL, ADJUSTMENT in Section 2 of the 1995 BUELL S2-THUNDERBOLT SERVICE MANUAL (Part Number 99489-95Y).
6. Loosely install upper switch housing over right handlebar and secure to lower housing using screws.
7. Verify that master cylinder is tight against switch housing. Tighten master cylinder screws to 70-80 **in-lbs** (7.9-9.0 Nm). Tighten switch housing screws to 18-24 **in-lbs** (2.0-2.7 Nm).

WARNING

Throttle cables must not pull tight when handlebars are turned fully to left or right fork stops. Be sure wires and throttle cables are clear of fork stops at steering head so they will not be pinched when fork is turned against stops. Steering must be smooth and free with no binding or interference which could cause loss of control or personal injury.

8. Move handlebar through full range of motion. Check for proper fuel tank cover and fairing clearance.
9. See Figures 2 and 3. Install right handlebar wires in 12-pin connector [B] and 6-pin connector [C]. Do not install connectors in fairing bracket at this time.

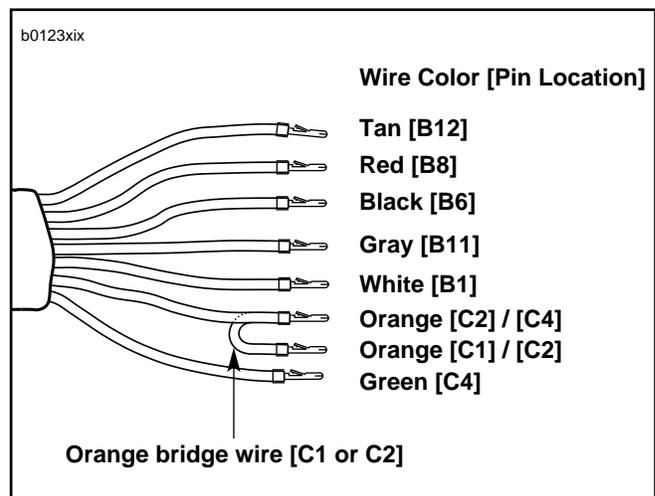


Figure 3. Right Handlebar Wires

10. Tighten handlebar clamp bolt to 12-15 ft-lbs (16-20 Nm).
11. Using a new cable strap, fasten wire harness to outside of handlebar as shown in Figure 1 (Style B).
12. Test operation of brake lamp with the front brake applied and the ignition/headlamp switch turned ON.

Left Touring Handlebar

1. Mount left touring handlebar loosely on top of fork leg using bolt and new nut supplied with kit.
2. Position clutch control clamp and assembly of clutch cable upper section, clutch lever and clutch lever bracket onto left handlebar.
3. Loosely install components on left handlebar using two screws and washers.
4. Place upper switch housing over left handlebar and secure to lower switch housing using screws. Do not final tighten at this time.
5. Move handlebar through full range of motion. Check for proper fuel tank cover and fairing clearance.
6. Tighten handlebar clamp bolt to 12-15 ft-lbs (16-20 Nm).
7. Install new left handgrip:
 - a. Using a piece of emery cloth, rough grip end of left touring handlebar.

NOTE

Before applying adhesive in the next step, clean the left touring handlebar with acetone.

- b. Apply LOCTITE PRISM PRIMER (770) to inside of handgrip. Remove any excess PRISM PRIMER with a clean cloth. Wait two minutes for PRISM PRIMER to set before attempting the next step.
- c. Apply LOCTITE PRISM SUPERBONDER (411) to inside of handgrip. Install new handgrip on left touring handlebar.

NOTE

SUPERBONDER will set in four minutes and be fully cured in 24 hours.

8. Verify handgrip is tight against switch housing and clutch control clamp. Tighten clutch control clamp screws to 70-80 **in-lbs** (7.9-9.0 Nm). Tighten switch housing screws to 18-24 **in-lbs** (2.0-2.7 Nm).

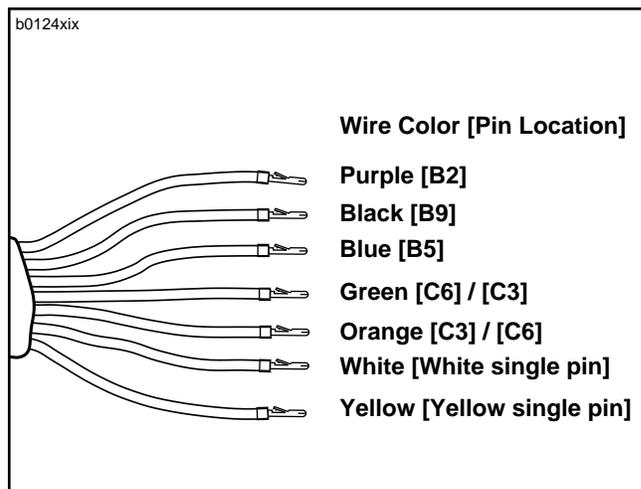


Figure 4. Left Handlebar Wires

9. See Figures 2 and 4. Install left handlebar wires in the 12-pin connector [B] and the 6-pin connector [C]. Connect the two single pin connectors [yellow and white].

CAUTION

Do not install pin connectors [B or C] upside down in the fairing bracket. Incorrect orientation will twist the wiring harness upon assembly.

10. Install pin connectors [B and C] in fairing bracket. Connect socket connectors.
11. Using a new cable strap, fasten main wiring harness to headlamp and right/left switch gear harnesses.
12. Install dash panel using three screws and plastic washers.
13. Using a new cable strap, fasten wire harness to outside of handlebar as shown in Figure 1 (Style B).

WARNING

Clutch cable must not pull tight when handlebars are turned fully to left or right fork stops. Be sure cable is clear of fork stops at steering head so it will not be pinched when fork is turned against stops. Steering must be smooth and free with no binding or interference which could cause loss of control and personal injury.

14. If necessary, adjust clutch cable freeplay according to CLUTCH RELEASE MECHANISM, ADJUSTMENT in Section 6 of the 1995 BUELL S2-THUNDERBOLT SERVICE MANUAL (Part Number 99489-95Y).
15. Test all handlebar controls for proper operation.