

Technical Bulletin

HeadLamp Damping

Important

Read this service bulletin carefully and thoroughly before commencing work. If you do not understand the instructions or have questions, see your supervisor immediately. If you are unsure of any of the procedures, please contact your Indian Field Service Manager (FSM).

Headlamp Damping

Applying silicon sealant to the the mating surfaces of the two halves of the headlamp housing and between the housing and the headlamp bezel should resolve any rattle or noise.

Tools Required

5/16" Allen wrench	Side Cutters	10mm Wrench
3/16" Allen Wrench	Phillips Screwdriver	Torque Wrench
5/32" Allen Wrench	5/16" Socket	
9/64" Allen wrench	Ratchet Drive	

Materials Required

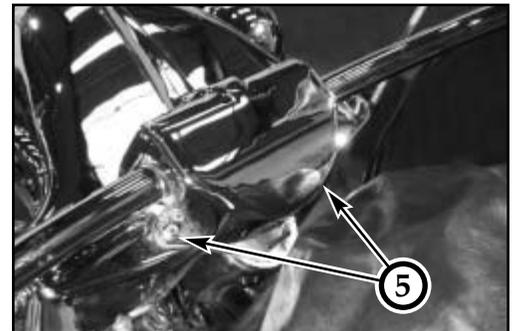
Silicone Sealant
Alcohol
Clean Cloth

Preparation

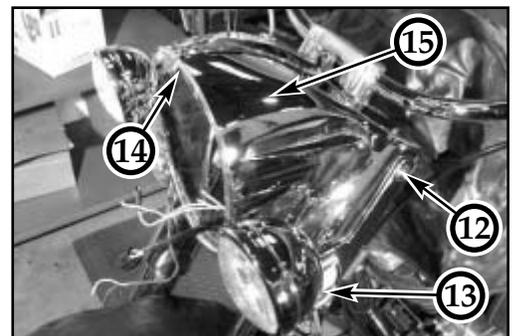
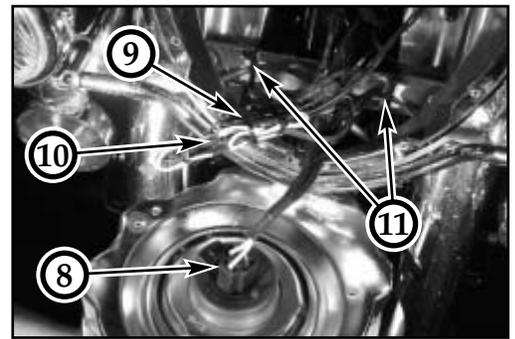
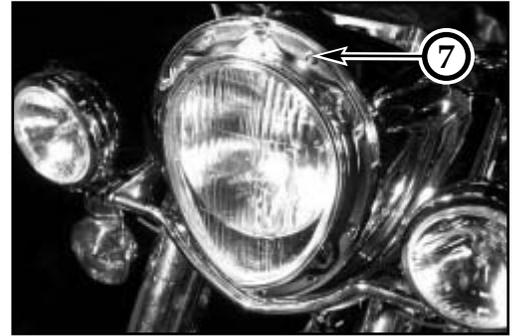
- 1 Fit protection covers to the front fender and fuel tank.
- 2 Using a 5/32" allen wrench remove the 3 allen head bolts securing the seat.
- 3 Remove the seat and using a 10mm wrench remove the negative cable (earth) from the battery.

Disassembly

- 4 Remove the windshield if fitted.
- 5 Using a 3/16" allen wrench, remove the two allen head bolts and the riser cover.

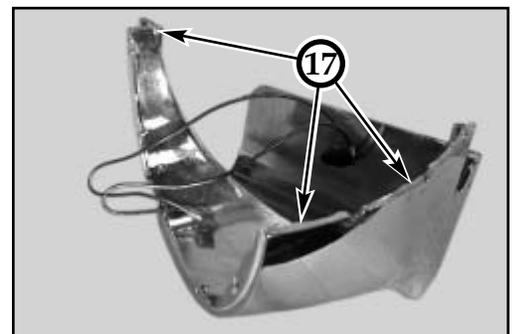


- 6 Using a Phillips screwdriver remove the headlamp bezel.
- 7 Using a 9/64" allen wrench, remove the 10 bolts securing the headlamp assembly.
- 8 Disconnect the electrical socket and remove the headlamp assembly.
- 9 Using side cutters, remove the zip ties securing the wiring harness.
- 10 Disconnect the 3 electrical connections. Mark each pair for later re-connection.
- 11 Using side cutters, remove the 2 zip ties securing the wiring harness to the triple tree.
- 12 Using a 5/16" allen wrench, remove the 2 upper headlamp housing bolts securing the spotlamp mounting bracket to each front fork.
Remove the washer from between the bracket and the LH fork and cable clip from the RH side.
- 13 Loosen the 2 lower headlamp housing bolts and remove the spotlamp assembly complete.
- 14 From inside the headlamp housing use a 5/16" socket to remove the 3 nuts and washers securing the headlamp spear mounted on the top of the housing.
- 15 Remove the lower headlamp housing bolts and carefully remove the two halves of the headlamp housing.



Silicone Application

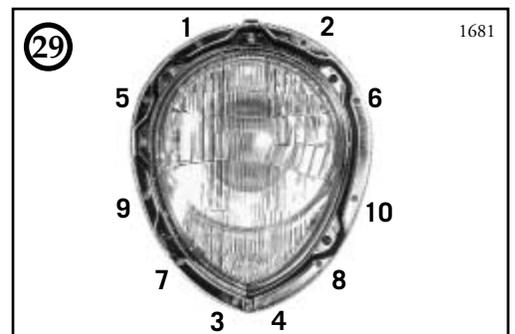
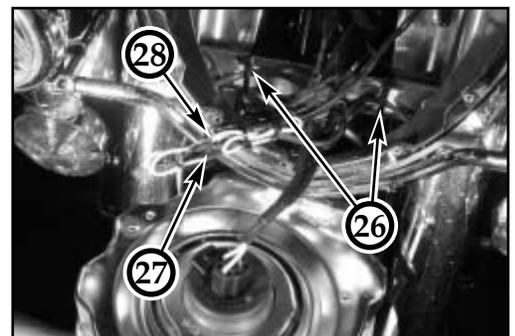
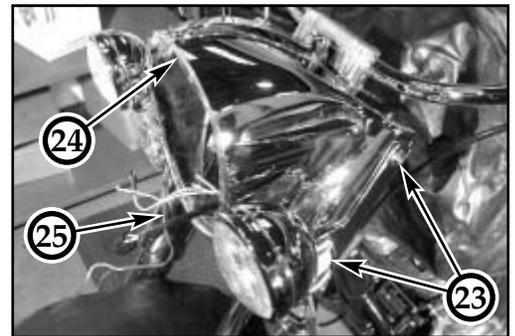
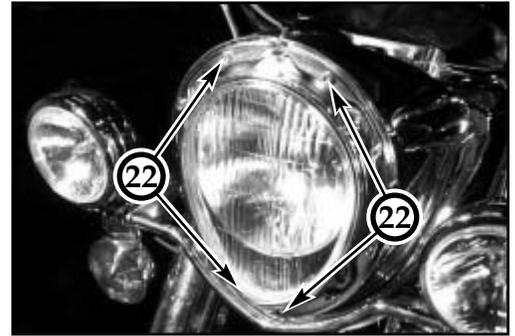
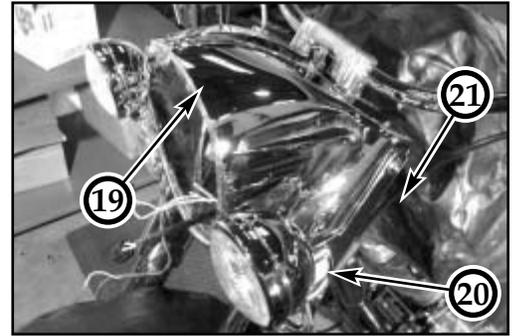
- 16 Clean both mating surfaces of the headlamp housing with alcohol cleaner and a clean cloth.
- 17 Place one half of the housing on a protective surface and apply an even bead of silicone to the mating edges of the housing. Ensure the silicone bead is approximately 1/4" in diameter.



Headlamp Refit

Prior to refitting all fixings, clean the threads and apply a small amount of Blue Loctite to the first threads of each bolt/nut.

- 18 Carefully refit both halves of the housing taking care not to smear the silicone.
- 19 Apply Blue Loctite to the threads on the headlamp spear, position over the top seam and refit the 3 nuts and washers and tighten until snug.
- 20 Apply Blue Loctite and loosely fit the lower headlamp housing bolts to the front forks.
- 21 Position the spotlamp assembly over the lower headlamp housing bolts. Apply Blue Loctite, refit the top headlamp housing bolts and tighten until snug. Ensure the washer is fitted between the bracket and LH fork, and the cable clip between the bracket and RH fork.
- 22 Reconnect the electrical socket and temporarily refit the headlamp. Secure with the 4 center bolts.
- 23 With the housing now assembled, tighten the upper and lower headlamp housing bolts to 10-12 foot-pounds.
- 24 Remove the headlamp once again and tighten the nuts securing the headlamp spear to 20 inch-pounds.
- 25 Route the spotlamp wiring harnesses in front of the forks, backwards and up into the headlamp housing.
- 26 Using two zip ties, secure the harness to the triple tree. Place the zip ties through the two holes in the lower triple tree.
- 27 Reconnect the 3 electrical connections. Temporarily reconnect the battery and check the spotlamps and turn signals operate correctly.
- 28 Gather the loose wires together and secure with a zip tie.
- 29 Refit the headlamp, apply Blue loctite to the 10 bolts and tighten until snug. Tighten the bolts to 22 inch-pounds in the pattern shown opposite .



30 Carefully apply a silicon bead to the ridge surrounding the headlamp. A constant 1/4" diameter bead must be applied all the way around the housing.

CAUTION: For the silicone sealant to bond correctly, fit the bezel within 10 minutes.

31 Carefully refit the headlamp bezel, secure with the Phillips screw and tighten to 10-20 inch-pounds. Wipe off any access silicon with alcohol and a clean cloth.

32 Refit the riser cover, apply Blue Loctite to the 2 allen head bolts and tighten to 96 inch-pounds.

33 Refit the windshield if fitted.

34 Reconnect the battery and refit the seat.

