

CDI ELECTRONICS INSTALLATION GUIDE

CDI P/N: 832-9809

This unit replaces the following Mercury/Mariner Three Wire Three Ram Trim Motors P/N: 99186 (Round Prestolite), 99186T (Square Eaton Motor)

This two wire KIT is a replacement for the three wire motor and solenoids.

Motor Replacement

1. Remove the engine cowling.
2. Tilt and secure engine in the full up position (If old trim motor is not working, use manual release, raise and secure with a lifting device).
3. Disconnect the battery cables.
4. Remove the wires from the old trim motor to the trim solenoids.
5. Remove the steering cable retaining nut on the tilt tube.
6. Remove the tilt tube nut.
7. Remove the two starboard motor transom mounting bolts and nuts.
8. Remove the three starboard power trim unit bolts.
9. Remove the starboard motor clamp bracket.
10. Remove the four screws holding the trim motor to the trim pump assembly.
11. Remove the old trim motor.
12. Remove and keep the old trim motor base plate screws.
13. Remove the old trim motor base plate, (leave the O ring seal in place).
14. Clean and dry the area around the old motor base. (It would be a good idea to replace the old pump shaft seal, Mercury # 26-72461).
15. Install the new adapter plate to the pump body and housing, using the original screws. Coat the screws with a removable thread locker.
16. Insert and seat the adapter shaft into the trim pump with the slot up.
17. Apply a bead of "Ultra Black" RTV to the top inside mating surface for the motor. (Black is recommended for cosmetic reasons).
18. Try to align the new trim motor's shaft with the slot in the adapter shaft.
19. Install the new trim motor onto the adapter plate and align the holes.
20. Apply a removable thread-locker to the three Allen screws and tighten the trim motor down.
21. Reinstall the starboard motor clamp bracket.
22. Replace the three starboard power trim unit bolts and the two starboard motor transom mounting bolts and nuts.
23. Replace the tilt tube nut.
24. Tighten the steering cable retaining nut on the tilt tube.
25. Route the new trim motor harness through the starboard clamp bracket and up into the engine compartment.
26. Disconnect and remove the old trim solenoids and wires, saving the old bolts.

Relay Replacement

Starboard Side Mounted Relay's (V-6)

1. Mount the new trim relays using the old bolts. (The new relay's will mount in a < pattern on the side of the air silencer).
2. Insert the blue and green wires from the new motor into the relay connector, matching the colors.
3. Plug the blue/white and green/white wires into the engine harness blue/white and green/white wires.
4. Route the red wire in the new harness over to the starter solenoid and connect it with the positive battery cable.

Rear Mounted Relay's (V-6)

1. Mount the new trim relays using the coil plate mounting bolts for the ignition coils.
2. Route the blue and green wires from the new motor to the relays and insert them into the proper connector, matching the colors.
3. Route the blue/white and green/white wires over to the engine harness main connector and connect the blue/white and green/white wires.
4. Route the red wire in the new trim harness over to the large red wire terminal on the terminal strip for the regulator/rectifier or to the starter solenoid battery terminal.
5. Reconnect the battery cables.
6. Release the engine securing device and lower the engine.
7. Reseat the manual bypass if it was loosened.
8. Work the tilt/trim up and down several times stop to stop and recheck the fluid level.

Thank you for using RAPAIR/CDI Electronics

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