

Installation Procedures

Rev. B – Jan. 11, 2007

Contents: (1) Simco Instrument Module, (1) T15 Torx Bit, (4) White Housing Screws – Phillips 6/32 x 3/4,
(1) F150 Lamp Pig Tail (Simco Part # 2001-201), (1) F150 Lamp Pig Tail (Simco Part# 2017-207), (2) Simco LTD Stickers

Tools required: 7mm Socket driver, Phillips Head Screwdriver, T-15 Torx driver, Pliers

Note: It is recommended to remove the negative (-) battery terminal before proceeding with the installation.

Read all instructions and review figures carefully before proceeding with installation.

1. Remove the original Instrument Cluster from the vehicle by the following steps.
 - A. Release the four clips and remove the steering column opening cover by pulling up (See figure 1). Remove the headlamp switch from the Instrument Panel. Remove the lower dash cover to access the base of HL switch. Feel for a slide lever close to dash on bottom of HL switch. Slide lever to the side to remove switch from dash. Next, remove the seven 7mm retaining bolts and remove the Instrument Panel (See figure 2).
 - B. Remove the four 7mm retaining bolts from the Instrument Cluster (1) (See figure 3).
 - C. Remove the PRNDL assembly by pushing the outer tabs inward and pulling it downward from the cluster.
 - D. Disconnect the electrical connectors (2) and remove the Instrument Cluster (3) (See figure 3).

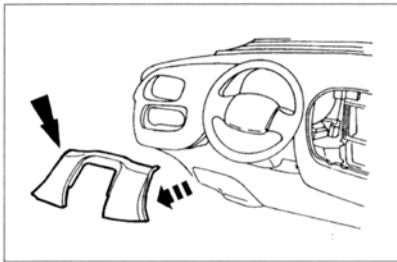


Figure 1

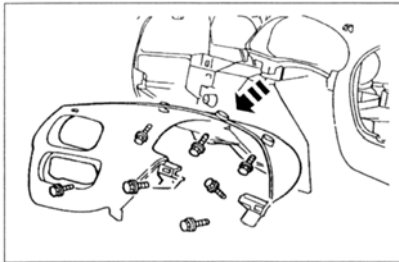


Figure 2

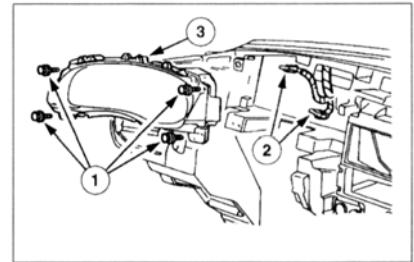


Figure 3

2. Place the original cluster along with the new Simco Instrument Module on a clean soft surface.

Caution: The Instrument cluster contains sensitive electronic components. Great care should be taken when handling the circuit board. Avoid touching components on the circuit board directly and handle the circuit board by its edges. Static shock could damage the components. Avoid working in areas that can create excessive static shock such as carpeted rooms.

3. Remove seven T-15 brass screws from the original rear cluster cover and remove the cover to expose the circuit board (See figure 4).
4. Disconnect the digital odometer cable from the circuit board by pulling the connector out from circuit board. (See figure 5).
5. Separate the circuit board from the gauge assembly by pulling the board from the back of the white housing (See figure 6).

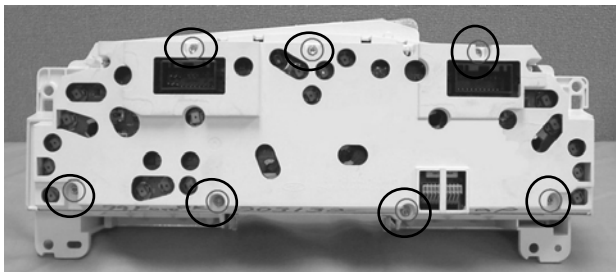


Figure 4

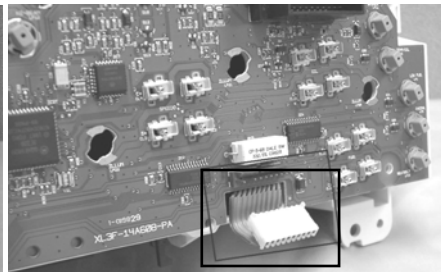


Figure 5

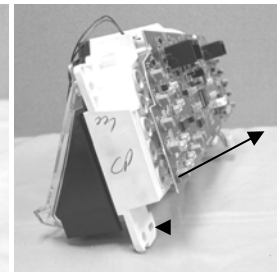


Figure 6

6. From the new Simco Instrument Module, remove the two included T15 Torx screws from the rear. (See figure 7).
7. Remove the odometer knob along with the small Black/Gray contact pad from the original cluster and re-install into the back of the new Simco Instrument Module (See figure 8).

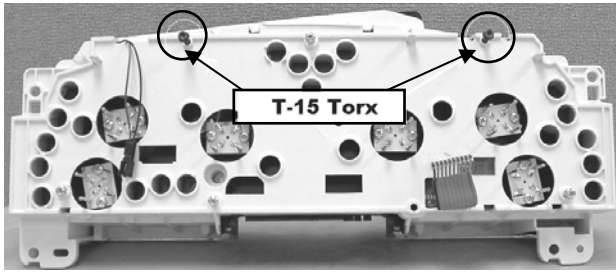


Figure 7



Figure 8

8. Re-install the original circuit board onto the new Simco Instrument Module by engaging the circuit board into the gauge pins and pressing on the back of the circuit board until it is fully seated to the back of the white housing (See previous figure 6).

Caution: *The circuit board contains sensitive electronic components. Great care should be taken when handling the circuit board. Avoid touching components on the circuit board directly and handle the circuit board by its edges. Static shock could damage the circuit board.*

9. Plug the odometer cable from the new Simco Instrument Module back into the circuit board connector (See previous figure 5).
10. Remove the **six white lamps** on the backside of the circuit board by turning the lamps ¼ turn counter-clockwise with a pair of pliers. Do not remove the gray, black, or red lamp sockets (see figure 9 - Circuit board may vary depending on model year).
11. There are two lamp pig tail connectors included. Use the one that is labeled with the correct model year of the original cluster. For **1999-2000** model years, use the 2001-201 connector. For **2001-2003** model years, use the 2017-207 connector. Plug the new lamp pig tail connector into the indicated empty lamp socket as shown in figure 10.

CAUTION: For 1999-2000 model years, please note that the lamp pig tail connector **MUST** have the **red wire** side facing **down** towards the bottom of the cluster. For 2001-2003 model years, please note that the lamp pig tail connector **MUST** have the **red wire** side facing **up** towards the top of the cluster (See figure 10).

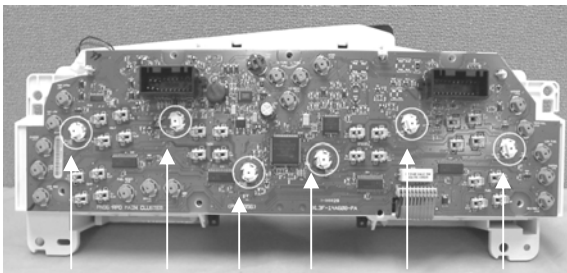


Figure 9 (2000 model year shown)

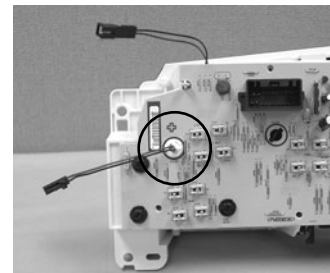


Figure 10 (2002 model year shown)

12. Place the original cluster white cover on the back of the circuit board while feeding the lamp connector through the cover lamp hole (See figure 11). Connect the power inverter connector and the lamp connector together (See figure 12).
13. Install the included two T-15 and the four Phillips screws through the cover and into the Instrument module. Do **NOT** over-tighten the four Phillips screws (See figure 13).

Caution: *Damage can occur if screws are placed in the wrong location. They are **not** meant to be interchanged. Review the figure carefully.*

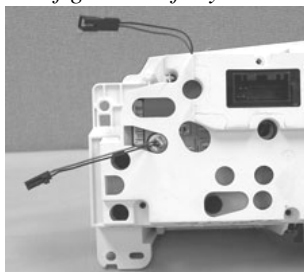


Figure 11

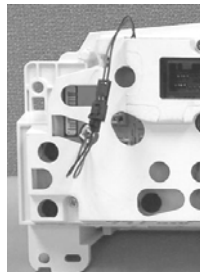


Figure 12

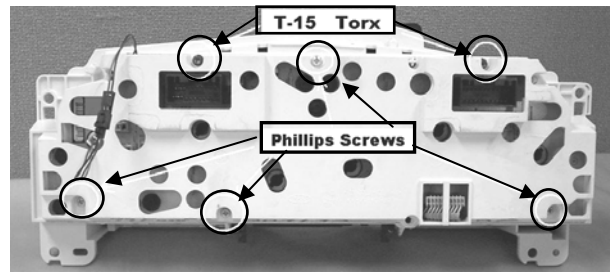


Figure 13

The Simco Instrument Cluster is now ready for the Vehicle Gear Indicator (PRNDL) Installation.

Vehicle Gear Indicator (PRNDL) Installation

14. Remove the two #2 Phil-pan screws from the front of the new Simco Instrument Module and slide the PRNDL assembly out from the bottom of the cluster.
15. Attach the original Instrument Cluster PRNDL cable from the vehicle to the new Simco Instrument Module PRNDL assembly by the following steps.
 - A. Slide the small Orange PRNDL pointer, with your hand, over to the park indication “P” and remove (pull) the small wire from the back of pointer (See figure 14 & 15).
 - B. Looking at the top of the PRNDL assembly, push downward on the white plastic square marked 1 in figure 16 and slide the cable assembly from the side of the PRNDL assembly.
 - C. Reinstall the cable assembly onto the new PRNDL assembly and reattach the small wire to the back of the pointer.

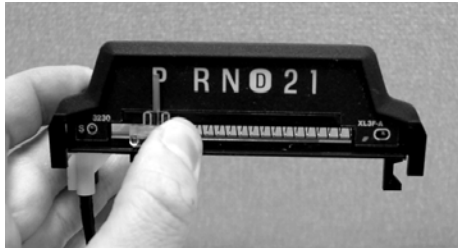


Figure 14

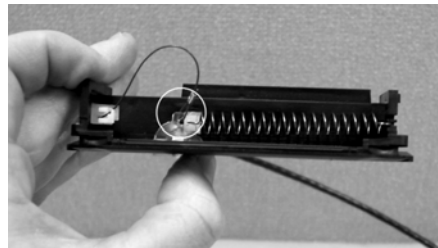


Figure 15

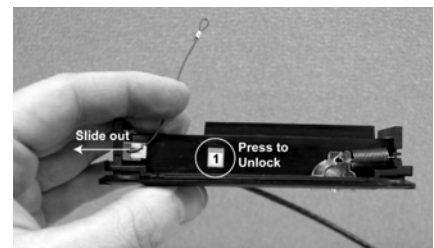


Figure 16

16. Set the Simco Instrument Cluster in position, then slide the PRNDL assembly into the bottom of the Simco cluster and re-install the two #2 Phil-pan screws in the front to hold it in place. Use a screwdriver with a magnetic tip to avoid dropping the small screws in the tight area.
17. Return the vehicles' shift lever to “park” and verify the PRNDL indicator corresponds with the shift lever action.
18. Installation of the new F150 Instrument Cluster is reverse of removal. (See Step #1)
19. Re-Connect the negative (-) battery terminal and start vehicle to verify proper operation.