INSTALLATION INSTRUCTIONS
F150 LUNAR INSTRUMENT MODULE
FOR USE WITH FORD F150 INSTRUMENT CLUSTERS
(MODEL YEARS 1999-2003)

Review instructions thoroughly before attempting installation. Professional installation is recommended.
(Estimated installation time: 2 hrs.)

Installation Procedures
Tools Required: Phillips Head Screwdriver, T-15 Torx driver, Pliers
Note 1: It is recommend to remove the negative (-) battery terminal before proceeding with the installation.
Note 2: Place the vehicle Emergency Brake ON. With the vehicle off, turn the key forward to unlock the shift lever and shift the vehicle into low gear "L". This will release the tension on the PRNDL cable.

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).
   B. Remove the headlamp switch from the Instrument Panel.
      Remove lower dash cover to access bottom of HL switch.
      Feel for slide lever close to dash on bottom of switch.
      Slide lever to one side to release switch from dash (See figure 2).
   Then remove the seven retaining bolts and remove the Instrument Panel (See figure 3).

   B. Remove the four Instrument Cluster retaining bolts (See figure 4 ①).
   C. Remove the PRNDL assembly by pushing the outer tabs inward and pulling it downward from the cluster (See figure 5).
   D. Disconnect the electrical connectors (See figure 4 ②) and remove the Instrument Cluster (See figure 4 ③).

2. Place the original cluster along with the new F150 Lunar Instrument Module on a soft clean surface.

3. Remove seven T-15 brass screws from the rear cluster cover and remove the cover to expose the circuit board (See figure 6).

4. Disconnect the digital odometer cable from the circuit board by pulling on the connector (See figure 7). A small pocket screwdriver may be needed to release lock tabs on connector. Gently pry with care.

5. Separate the circuit board from the gauge assembly by pulling the board from the back of the white housing (See figure 8).
   Do not tip cluster up until after step 7, odometer knob can fall out.

   Make note of placement of screws before removing (See figure 9).

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 Lunar Instrument Module (See figure 10).

8. Re-install the original circuit board onto the Lunar 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 8).
   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.

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9. Plug the odometer cable back into the circuit board connector (See previous figure 7).

10. Remove all of the six white lamps on the backside of the circuit board by turning the lamps 1/4 turn counter-clockwise with a pair of pliers. Do not remove the grey, black, or red lamp sockets. (See figure 11 - circuit board may vary depending on model year, (2000 model year shown))

11. Plug the new lamp connector into the empty lamp socket as shown. 

Note 1: There are two lamp connectors included. Use the one that is labeled with the correct model year of the original cluster.

Note 2: For 1999-2000 model (Ref. Green circuit board) years the lamp connector MUST have the red wire side facing down towards the bottom of the cluster (See figure 12).

12. Place the original white cluster cover on the back of the circuit board while feeding the lamp connector through the cover lamp hole. (See figure 13)

13. Install the included (2) T-15 and (4) Phillips screws through the cover and into the Instrument module. Do NOT over-tighten the (4) Phillips screws. 

Caution: Damage can occur if screws are placed in the wrong location. They are not meant to be interchanged. Review figure 13 carefully.

14. Connect the power inverter connector and the lamp connector.

15. Remove the two #2 Phil-pan screws from the front of the Lunar Instrument Module and slide the PRNDL assembly from the bottom of the cluster.

16. Attach the original Instrument Cluster PRNDL cable from the vehicle to the new Lunar 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 (See figure 17).

17. Set Lunar Cluster in position, then slide the PRNDL assembly into the bottom of the Lunar cluster and re-install the two #2 Phil-pan screw in the front to hold it in place. Use a magnetic driver to avoid dropping screws into dash due to tight working area.

18. Return the vehicles shift lever to “park” and verify the PRNDL indicator corresponds with the shift lever action.

19. Installation of the new F150 Lunar Instrument Cluster is reverse of removal.

20. Connect battery cable and start vehicle to check for proper operation.

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

Vehicle Gear Indicator (PRNDL) Installation

For 2001-2003 model (Ref. Tan circuit board) years the lamp connector MUST have the red wire side facing up towards the top of the cluster.

Note 2: For 1999-2000 model (Ref. Green circuit board) years the lamp connector MUST have the red wire side facing down towards the bottom of the cluster (See figure 12).

SERVICE

For service send your product to Auto Meter in a well packed shipping carton. Please include a note explaining what the problem is along with your phone number. Please specify when you need the product back. If you need it back immediately mark the outside of the box "RUSH REPAIR," and Auto Meter will service product within two days after receiving it. ($10.00 charge will be added to the cost of "RUSH REPAIR." If you are sending product back for Warranty adjustment, you must include a copy (or original) of your sales receipt from the place of purchase.

12 MONTH LIMITED WARRANTY

The manufacturer warrants to the consumer that this product will be free from defects in materials and workmanship for a period of twelve (12) months from the date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at the manufacturer’s option to the consumer, when determined by the manufacturer that the product failed because of defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the instrument and the necessary labor done by the manufacturer to affect the repair or replacement of the instrument. In no event shall this warranty exceed the original purchase price of the instrument, nor shall the manufacturer be responsible for special, incidental or consequential damages or costs incurred due to failure of this product. Warranty claims to the manufacturer must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. The manufacturer disclaims any liability for consequential damages due to breach of any written or implied warranty on all products made by the manufacturer.

FOR SERVICE CONTACT: AUTO METER PRODUCTS Inc. 413 W. Elm St., Sycamore, IL 60178 USA (815)899-0801 or Email us at service@autometer.com