



Mack Chassis - No Gauge Cluster Backlight

Internal Content

TS request (Gerry)

It is possible in some Mack models after an instrument cluster upgrade for the cluster backlighting to not function.

Parameter **ITK** is not set correctly. VCADS may have prompted to change this parameter. When changed, this condition is created.

Using VCADS, program the cluster with the latest software version. Programming will default to the setting for the previous Lighting Control Panel (LCP, P/N 1MR4339M-). If the vehicle utilizes the new LCP (P/N 1MR4349M-), run Accessory Kit 85111400 for the basic cluster or 85111399 for the Hi-Line cluster before programming. Also, refer to [SB733002](#) for wiring changes.

 Tags

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[instrument cluster](#)

Categories 

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[KC-2254 sb733002](#)



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SB733002**Date: 06/01/07****Model: CXP, CTP****(Does not apply to Mack Trucks Australia)****Master Lighting Control Switch — CXP and CTP Models**

A revised master lighting control switch (part No. 1MR4349M-) is available through the MACK Parts System. This switch was developed to address concerns with operation of the instrument panel dimmer. Should complaints of improper dimmer operation be encountered, it is recommended that the existing master lighting control switch be replaced with this revised switch.

[Master Lighting Control Switch \(Part No. 1MR4349M-\)](#)



Part No.	Description
1MR4349M	Master lighting control switch, without fog lamps, without hook-up lamps
1MR4349M2	Master lighting control switch, with fog lamps, without hook-up lamps
1MR4349M3	Master lighting control switch, without fog lamps, with hook-up lamps
1MR4349M4	Master lighting control switch, with fog lamps, with hook-up lamps

When replacing an existing master lighting control switch (part No. 1MR4339M-) with the revised switch, it will be necessary to reprogram the gauge cluster. Additionally, it may be necessary to add a wire (if one is not already present) from pin L of the lighting control switch to cavity 16 of the gauge cluster connector C (green connector). This wire provides a signal to the gauge cluster when the headlights are turned ON. Procedures are as follows:

1. Remove the gauge cluster (ABC panel) from the dashboard.
2. Remove the master lighting control switch from the instrument panel.
3. Disconnect the cab harness connector from the lighting control switch.
4. Disconnect the 22-pin gauge cluster connector from the back of the ABC panel.

[Disconnect 22-Pin Connector from ABC Panel](#)



5. Check cavity 16 of the connector. If a wire is present in cavity 16, an additional wire is not necessary and you may proceed to step 11. If a wire is NOT present in cavity 16, continue with step 6.

[Checking Cavity 16 of 22-Pin Gauge Cluster Connector](#)



6. Remove wire No. F3B from cavity L of the lighting control switch harness connector.
7. Splice a 762 mm (30") length of 18 AWG white wire to wire No. F3B.

NOTE

Use proper splicing techniques. Splices must be soldered and properly insulated. Always use rosin core solder (never use acid core solder) and DO NOT use flux. Use heat-shrink tubing to properly insulate the splice. DO NOT use electrical tape.

8. Insert wire F3B into cavity L of the lighting control switch harness connector.
9. Solder a terminal (part No. 925AM266) to the opposite end of the 762 mm (30") length of wire.
10. Insert the new wire into cavity No. 16 of the 22-pin gauge cluster connector, and then Reconnect the connector to the gauge cluster.
11. Reinstall the ABC panel.
12. Install the lighting control switch.

To reprogram the gauge cluster, an accessory kit must be programmed using VCADS software. Launch VCADS and connect the vehicle to Central Systems. On the left-hand menu, click on **Service and Maintenance**, and then on the right-hand menu, double-click on **Accessory Kit**.

[Selecting Accessory Kit from VCADS](#)



When the Accessory Kit screen is displayed, enter the applicable kit part number listed below into the form field:

- **Kit Part No. 85111400**— for vehicles equipped with the basic gauge cluster

- **Kit Part No. 85111399**— for vehicles equipped with the Hi-Line gauge cluster

[Enter Accessory Kit in Form Field](#)



When complete, click on the *backwards* arrow key to return to the main menu. In the left-hand menu, click on **Electric System and Instruments**. In the right-hand menu, double-click on **MID 140 ECU, Programming** to program the gauge cluster.

[Select MID 140 ECU, Programming](#)



For warrantable repairs, the labor code and maximum labor allowance are as follows:

733 1A 00 80	0.8 hr. —	Time allowed to replace master lighting switch and program dash cluster. Does not include "take-charge" time.
733 2A 00 80	0.3 hr. —	Additional time allowed to splice wire into lighting control switch harness.

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