

MACK MEDIUM DUTY TRAILIER WIRING WITH BRAKE CONTROLLER

Parts List:

7 Way Trailer Cord Length as required allow enough length to reach the MCFC 128-way Bulkhead Connector and Ground Strip on Bulkhead plus another 18 -24 inches and the rear of the chassis to where the Trailer Cord Receptacle will be mounted

7 Way Vehicle Trailer Receptacle

EFRC A1 Connector Part No. 21192662 3 Cavity Connector Delphi Part No. 12131592 Reference EFRC A1 Connector
Terminal Part No. 25559125 Delphi Part No. 12052139 (2)
Seal Part No. 22680343 Delphi Part No. 15324989 (2)
Plug Part no. 25153268 Delphi Part No. 12066082 (1)
Terminal Part No. 25097572 Deutsch Part No. 0460-204-12141 (Pin) (2)
Terminal Part No. 25163088 Deutsch Part No. 0460-203-12141 (Socket) (2)

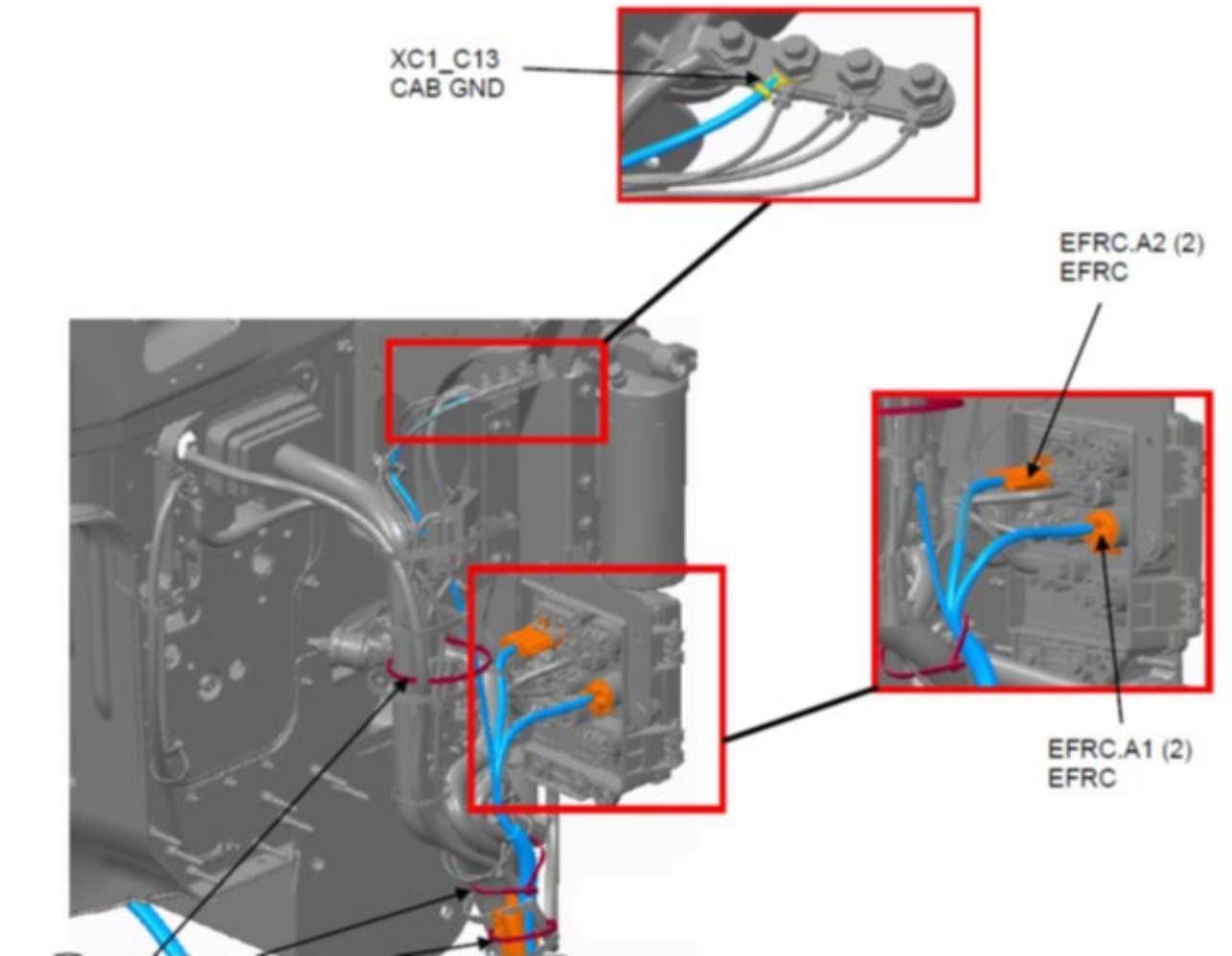
EFRC A2 Connector Part No. 8061092 3 Cavity Connector Delphi Part No. 12124685
Terminal Part No. 8061091 Delphi Part No. 12052456 (3)
Seal Part No. 22056756 Delphi Part No. 15324995 (3)

Instructions for EFRC A1 Connector:

1. Install a Seal Part No. 22680343 and Terminal Part No. 25559125 on one end of the Green Trailer Cord wire for Clearance Lamps insert into the Round EFRCA.1 Connector Cavity 1
2. Install a Seal Part No. 22680343 and Terminal Part No. 25559125 on one end of the Red Trailer Cord wire for Brake Lamps insert into the Round EFRCA.1 Connector Cavity 3. Cut this wire and route to the MCFC 128-way Bulkhead Connector to an open cavity. This wire can be used to signal the Brake Controller instead of adding an additional Service Brake Switch. Install a Terminal Part No. 25163088 (Deutsch Part No. 0460-203-12141) (Socket)
3. Install Terminal Part No. 25163088 (Deutsch Part No. 0460-203-12141) (Socket) on one end of the Blue Trailer Cord wire for Brake Controller Output, route to the MCFC 128-way Bulkhead Connector to an open cavity.
4. Remove the MCFC 128-way Bulkhead Connector and use an open Cavity (127 and 128 should be open) remove the secondary lock so that you can insert the terminals, Reinstall the Secondary Lock
5. Remove the Pedal Cover from inside the cab and locate the MCFC 128-way bulkhead connector. Install Terminal Part No. 25097572 (Deutsch Part No. 0460-204-12141) (Pin) on the Brake Control wire from the Trailer Brake Controller and route to the MCFC Connector and remove the Secondary Lock install the (Pin) terminal to match the cavity of the Blue Trailer Cord Wire.
6. Install Terminal Part No. 25097572 (Deutsch Part No. 0460-204-12141) (Pin) on the Brake Switch Red wire from the EFRCA.1 Connector Cavity 3 and route to the MCFC 128-way Bulkhead Connector install the (Pin) terminal to match the cavity of the Brake Signal wire from step 2, reinstall the secondary Lock and reconnect the MCFC 128-way Bulkhead Connector.
7. Insert Plug Part no. 25153268 Delphi Part No. 12066082 into cavity 2 of the ECRFA.1 Connector.
8. Install the Secondary Lock
9. Plug the EFRC A1 Connector into the back of the EFRC Reference Attached below.

Reference the RV Industry Standard 7-Way Trailer Cord Color Code below.

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Instructions for EFRC A2 Connector:

Install Terminal Part No. 8061091 and Seal Part No. 22056756 on the ends three wires as follows and insert into the EFRC A2 Connector.

1. RH Turn Install in Connector EFRC.A2 Cavity A Brown Wire
2. LH Turn Install in Connector EFRC.A2 Cavity B Red Wire
3. Aux or Dome Install in Connector EFRC.A2 Cavity C Black Wire
4. Install Secondary Lock

Install the Ring Terminal 20462432 onto the White Ground Wire and connect to the Cab Ground Strip

Route the trailer cable to rear of chassis, securing to the frame brackets, avoiding moving components and sharp edges.

Tekonsha Trailer Brake Controller

Connect the remaining Trailer Brake wires for Ignition and or Battery Power Supply and Ground as instructed by Tekonsha. Route wires for Trailer Brakes thru the MCFC 128-way Bulkhead Connector to the Trailer Cord.

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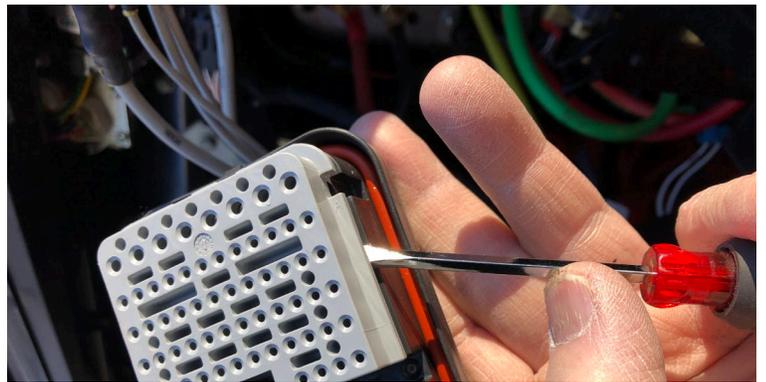
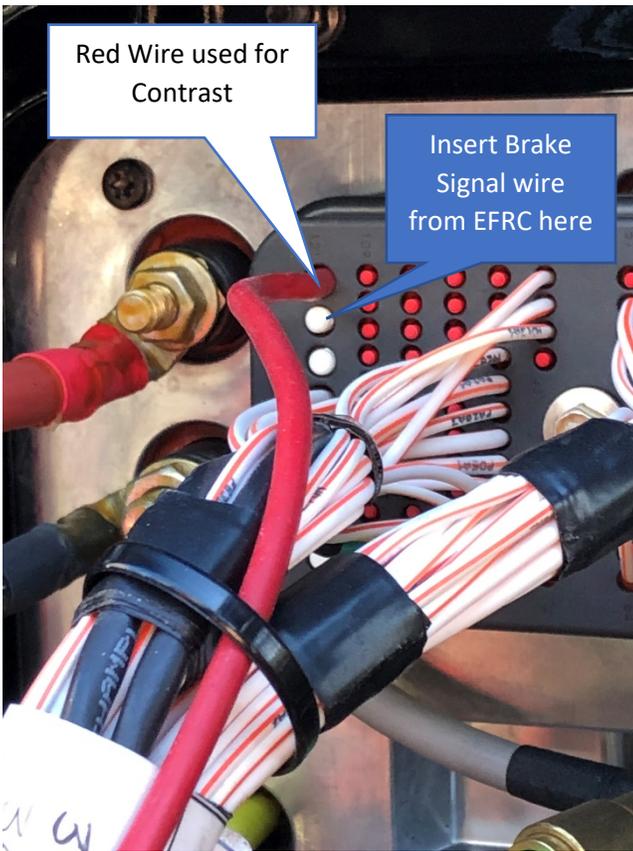
References:



EFRC A1 Connector

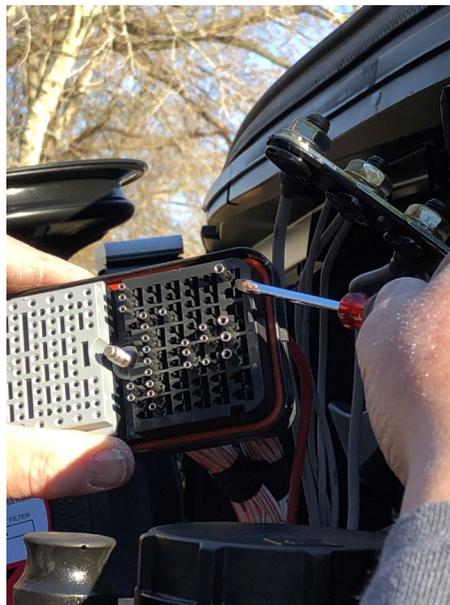


EFRC A2 Connector



Insert Trailer Brake wire into open cavity of the 128-way MCFC Connector

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Verify the terminal is locked in

Insert Terminal into Open Cavity id 128-way Connector



Wire the Trailer Brake Controller as shown, Install a 20 Amp Auto-Reset Breaker and 12 Ga wire.

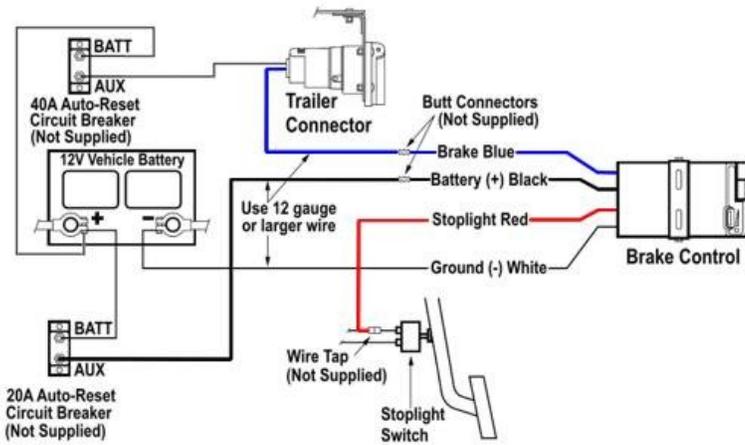
Battery Power can be found at FRC Main Power stud.

Connect the Ground to a clean Cab Ground.

Blue wire will be routed and inserted into the Cab Side of the MCFC 128-way Connector the same cavity as the Trailer Brake wire installed previously.

Brake Switch input wire will be routed and inserted into the Cab Side of the MCFC 128-way Connector the same cavity as the Trailer Brake Switch wire installed previously.

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FRC Battery Lug

Calibrate and Test the operation as instructed by Tekonsha Trailer Brake Controller Instructions before placing the unit into service.

Further Questions Comments Contact Mack Trucks Body Builder Support @ 877-770-7575

8 AM ~ 5 PM Monday thru Friday