



This Field Service Bulletin replaces FSB 373-022 dated 12.2015.

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11.2016	373	022	04	1(7)

Engine Harness Repair
MP7 Engines
CXU, GU, LEU, MRU

FSB 373-022, Engine Harness Repair

(November 2016)

The engine harness on MACK MP7 US2015 engines built between March 1, 2015 and September 2, 2016 may be making contact with the air compressor head and rubbing through. When diagnostic trouble codes (DTC) P0201 to P0206 FMI 13 are logging, look in this area first. If this is found to be the root cause of the DTC, it is recommended that the harness be repaired using a splice kit. On reassembly, protect and support the harness in this area.

Required Parts

Part Number	Description	Quantity
8140321	Splice (repair connector)	1
20796083	Heat Shrink Tubing	1
20469544	Woven Fabric Black Tape	1
20885496	Double Tie Retainer	2
983472	Cable Tie	12
20741911	O-Ring (pass through)	1

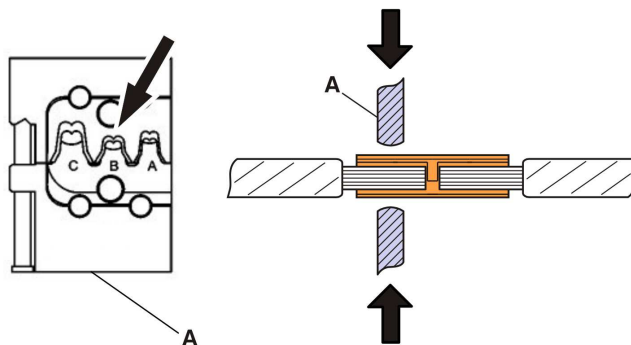
Required Tools

Tool Number	Description
88890003	Crimp Tool
88890011	Jaw

Procedure

You must read and understand the precautions and guidelines in Service Information, Function Group 20, "Engine Safety Practices" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral or park.
- 2 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components
- 3 Cabover models only, drain the air system.
- 4 Remove the engine harness. Refer to Function Group 37.
- 5 Carefully remove tape on harness in the damaged area.
- 6 Locate broken wire(s).
- 7 Cut damaged wire.
- 8 Strip 8 ± 1 mm (0.314 in) of insulation from damaged wire.
- 9 Place heat shrink over one end of wire.
- 10 Crimp repair connector in place on one end of broken wire using slot "B" of special tool.

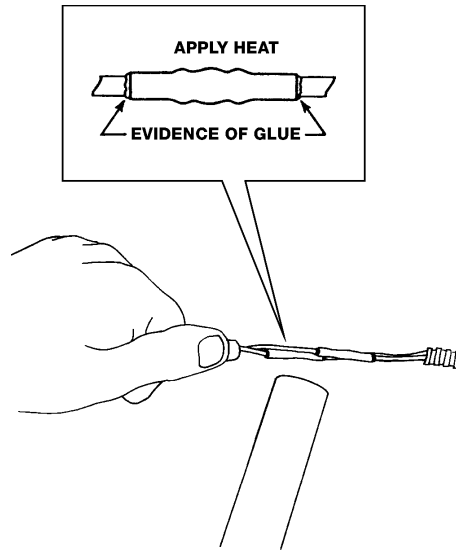


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A. 88890011

- 11 Crimp remaining end of broken wire using slot "B" of special tool.

12 Position heat shrink on top of repair, use heat gun to shrink in place.



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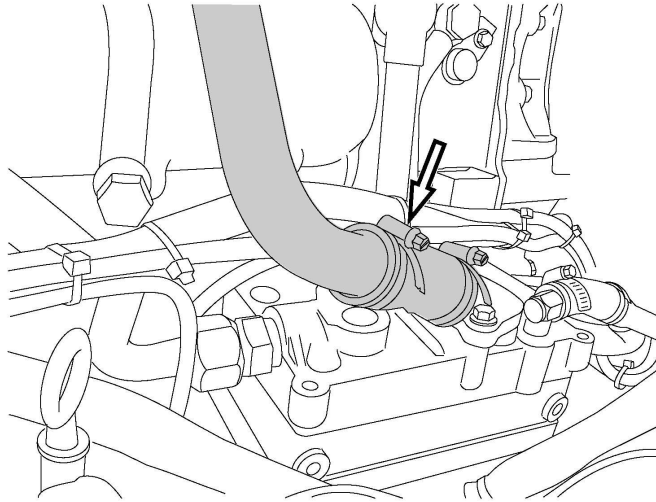
13 Repeat for each damaged wire.

14 Once all repairs are complete and using assistance as needed, tape harness twice.

15 Install the engine harness. Refer to Function Group 37.

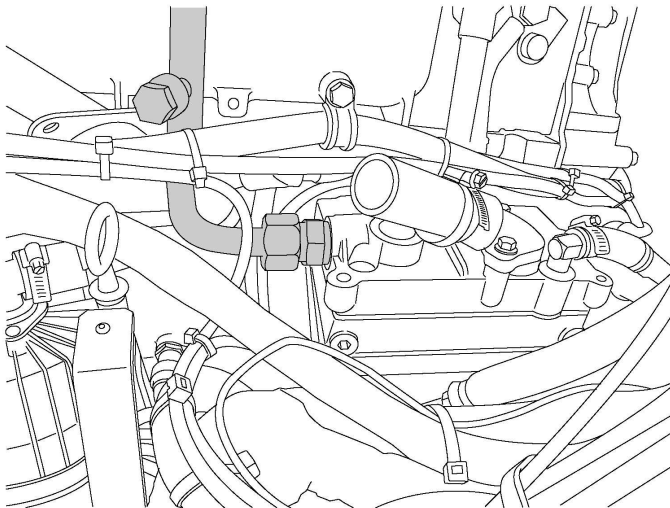
Note: Perform the following steps to route the harness behind the air compressor.

16 Cabover models, only, remove the hose clamp securing the intake air inlet pipe at the air compressor.



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17 Cabover models only, remove the air discharge line from the compressor head.

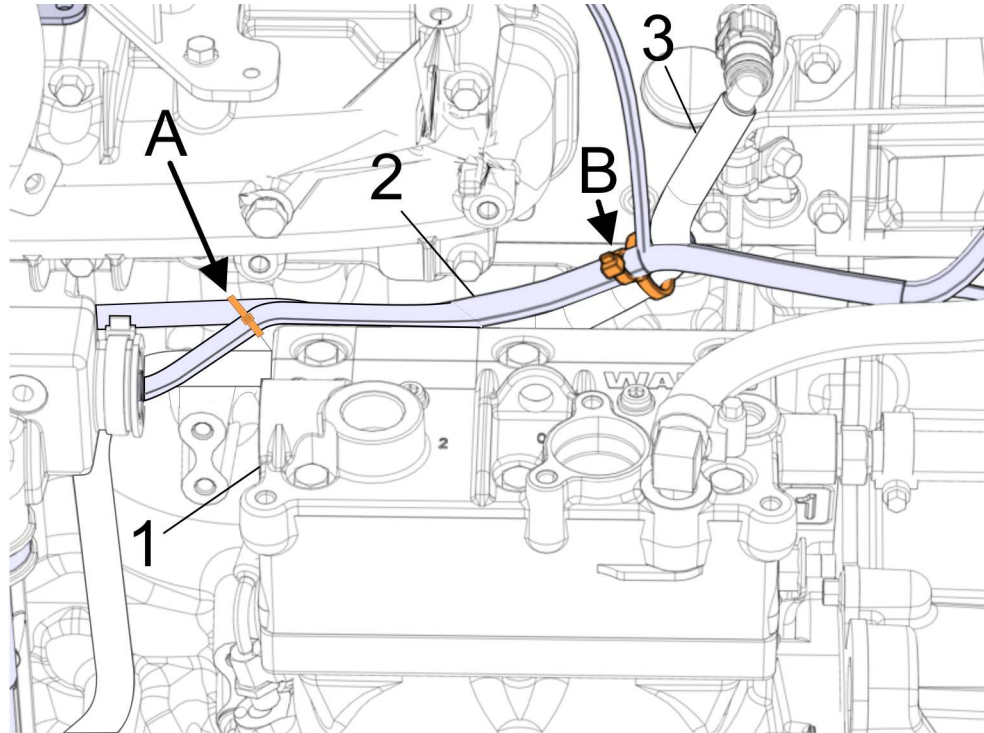


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18 Conventional models only, remove front chassis driver's side fairing (if equipped).

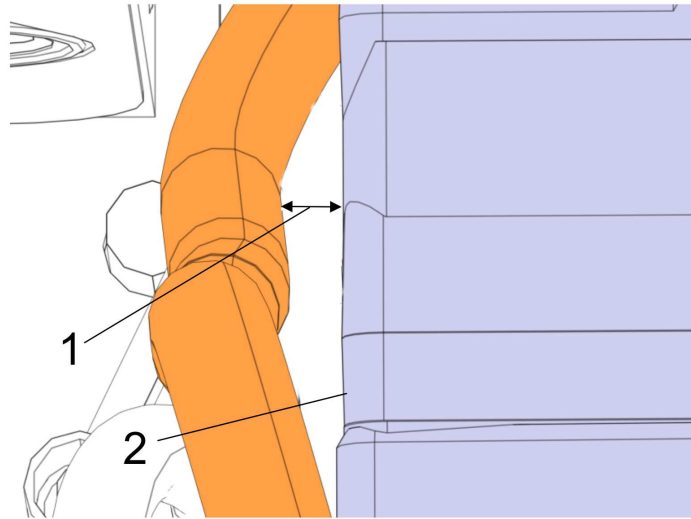
19 Conventional models only, remove driver's side inner fender splash shield as an assembly.

20 Relocate the engine harness (2) and install double tie retainers (part number 20885496) as shown (B) and single wire tie (part number 948211) to the oil line (A) between the air compressor and the engine block. Ensure harness is not touching air compressor. Make sure the ties are snugged tight.



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1. Air Compressor
2. Engine Harness
3. Cylinder Head Fuel Line



W2107161

Front View

- 1. Clearance
- 2. Air Compressor

- 21 Cabover models only, install the air discharge line on the compressor head.
- 22 Cabover models only, install the hose clamp securing the intake air inlet pipe at the air compressor. Tighten the fasteners to 18 ± 3 Nm (13 ± 2 ft-lb).
- 23 Cabover models only, charge the air system.
- 24 Conventional models only, install driver's side inner fender splash shield assembly and front chassis side fairing (if equipped).
- 25 Install all previously removed cables to the ground (negative) battery terminals.
- 26 Start the engine. Check for proper operation and leaks.

Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01
Labor Code	3731-03-09-04 CXU, GU – 6.5 hrs LEU, MRU – 7.0 hrs
Causal Part	22288890, 22324153

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