

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge, tools, and equipment to properly and safely perform diagnoses and repairs. It informs service technicians about conditions that may occur in some vehicles, or provides information that could assist in proper vehicle diagnosis, service, or repair, and does not indicate that a defect is present. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or that a described repair applies to any particular vehicle. There can be multiple causes resulting in the same symptoms or conditions, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis.

SUBJECT:

FUSO FE Gas Rear Combination Turn Signal/Tail Lamp Replacement Connectors

MODELS:

FEC7T, FECZT, FEC9T

DESCRIPTION:

Rear combination turn signal/tail lamp replacement connector kits are now available to streamline connector repairs.

REPLACEMENT PARTS:

- Connector Kit (Male) – MH050280 – 1 kit required per truck
- Connector Kit (Female) – MH050294 – 1 kit required per truck
- Crimp Connector (Duraseal) – MC037984-1 – 20 required per truck

Note: Each connector kit repairs 2 connectors. There are 12 wires in each kit. However, in this market, the turn signal/tail lamp connectors are configured with only 5 wires, so there are 2 extra wires in each kit.

INSTALLATION INSTRUCTIONS:

See the installation instructions on the following pages.

Please note that any special tools needed to complete this repair must be procured locally.

Please initial and route to the following personnel before filing.											
Service Mgr.		Warranty Mgr.		Service Technicians - Initial in boxes below.							
Shop Foreman		Parts Mgr.									

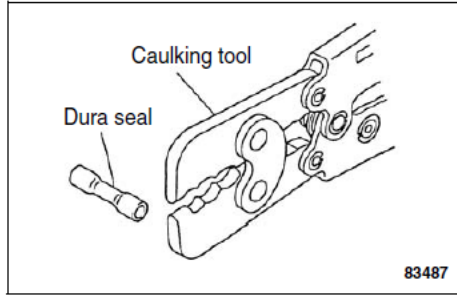
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Tail lamp connector installation

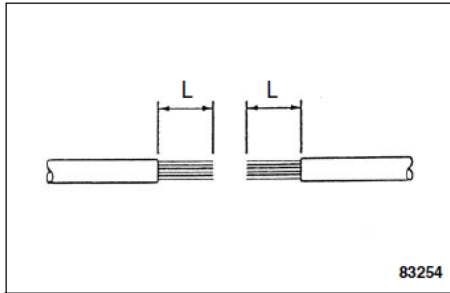
REPAIR WORK

2. Connection using crimp joint terminal with heat shrinkable tube <Dura seal>



The nylon heat shrinkable tube of the crimp joint terminal with heat shrinkable tube (hereinafter referred to as Dura seal. See Other supplied parts on P2-4.) has application of waterproof adhesive inside. It has functions of insulation from the external parts, sealing of water and protections from impact or friction.

- Select an appropriate Dura seal and the crimping cavity of the caulking tool (See Special tool on P2-2.) from the table below.
- The caulking tool has 3 crimping cavities. The cavity varies depending on the wire combination used for crimp. There are 3 types of Dura seals for each combination of the crimp wire



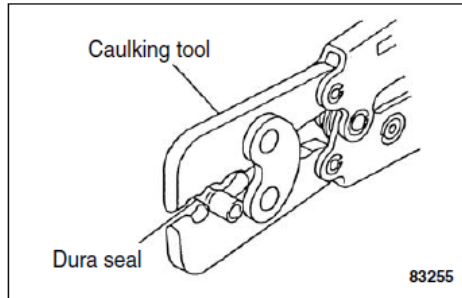
Strip off the insulation of the wire.

Wire size	L (mm)
0.5-2.0	7±0.5

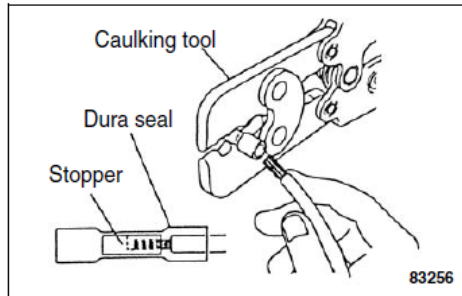
CAUTION
Be
stri

Tail lamp harness side wire need to be striped double length and need to fold double back as per R&D's feedback.

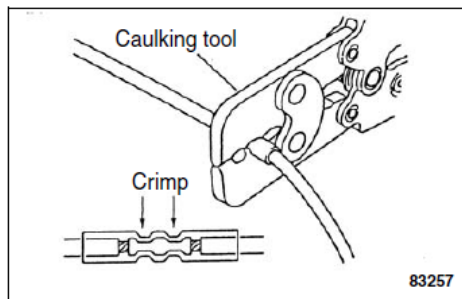
Harness	Cut length L (mm)
Repair harness side	7±0.5
Tail lamp harness side wire	14±1



- Open the jaws of the wire clamping tool to a sufficient width.
- Place the Dura seal in the crimping cavity of the caulking tool with the same color, then gradually close the handles until the terminal is held securely.

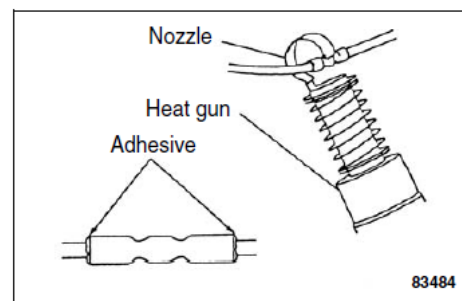


Insert the wires to be joined into the end of the Dura seal until the wire comes in contact with the stopper in the Dura seal.



- Fully close the handles of the caulking tool. The handles will then come open again and the crimping operation will be complete.
- Carry out the same steps at the opposite end.
- Make sure that the wire clamping force satisfies the values in the table below.

Wire size	0.5	0.85	1.25	2	3	5
Wire clamping force (N {kgf} or more)	88 {9}	125 {13}	165 {17}	245 {25}	345 {35}	390 {40}



Heat the Dura seal with a heat gun (See Special tools on P2-2.) for shrinking.

CAUTION ⚠

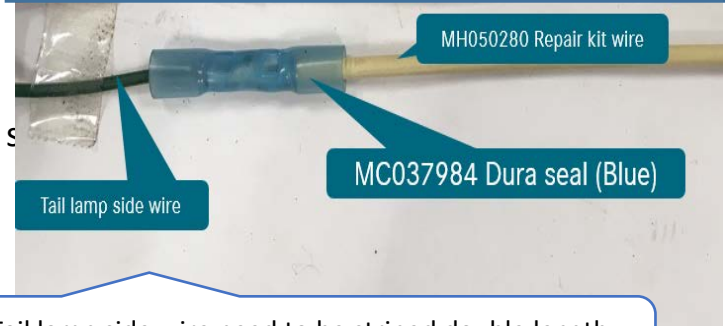
- Heat the Dura seal until adhesive comes out from both ends of the Dura seal.
- Since the nozzle temperature is high during heating, never touch the nozzle.
- Be sure to set the heat gun switch to "COLD" after heating to change hot air to cold air. After cooling the heat gun sufficiently, turn it "OFF".

After crimping, check the following items:

- Check if the wire insulation is inside the Dura seal.
- Check if adhesive is coming out from the ends of the Dura seal.
- Check if the Dura seal is shrunk completely to the wire.
- Check if there is any damage or crack on the Dura seal.
- Check if the Dura seal color is brown due to excessive heating.
- Check if the wire is deformed by heating.



Rework method:



Tail lamp side wire need to be striped double length and need to fold double back for better strength

Repair done (1 portion). Need 4-portion repair (LH and RH side- male and female connections)

