



MODERNIZATION RECOMMENDATION

EMDEC FUEL HOSE CLAMPS

PURPOSE:

The application of a recent design improvement to fuel hose clamps will eliminate clamp-to-hose chafing.

APPLICATION:

All SD70, SD75, SD70MAC, and F59PHI locomotives with EMDEC side mounted Engine Control Modules (ECM's).

REQUIRED MATERIAL:

Clamp assembly p/n 40098521, two required

DISCUSSION:

Field reports indicate that side-mounted ECM cooling plate hoses are experiencing chafing damage at the free-floating retaining clamps (see attached photo). This chafing may result in a loss of hose material, broken hose braid wires, and potential fuel leaks over time. The cause of hose chafing is vibration and inherent looseness of metal clamping on solid rubber material.

PROCEDURE:

This Modernization Recommendation is to be conducted:

- as a preventative upgrade
- at time of failed hose replacement
- at time of overhaul

Use the following criteria for condemning hoses: If the chafed damage has exposed the braided wires, and at least one braid wire is broken, replace the hose.

All railroad shop safety rules and practices must be followed.

1. Consult the attached diagram to identify subject clamps.
2. Remove original free-floating clamps.
3. Properly position new hoses per attached diagram. Ensure hoses are routed to maintain sufficient clearance from all sharp edges.
4. Apply hose clamps.

Assembly 25: Fuel Filter Piping, Manifold & Injector Fuel Lines



