

Technical Bulletin

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Subject: E-10 Brake Valve #101270 Modification Kit #265073

It has come to our attention that the remote mounted E-10 Brake Valve assembly 101270 as installed on M.C.I. and T.M.C. coaches is more susceptible to contamination and internal corrosion due to one or more of the following;

1. Plunger boot deterioration and wear caused by over lubrication of the actuator mechanism.
2. Insufficient sealing between the plunger, boot and mounting plate as well as between the mounting plate and valve body.
3. Contamination entering the brake valve (primarily water and road salt) due to the pumping action of the plunger and boot during application and release.

A number of changes have been made to assembly 101270 to improve its resistance to contamination and internal corrosion on the M.C.I. and T.M.C. installation. (Reference Figure 1)

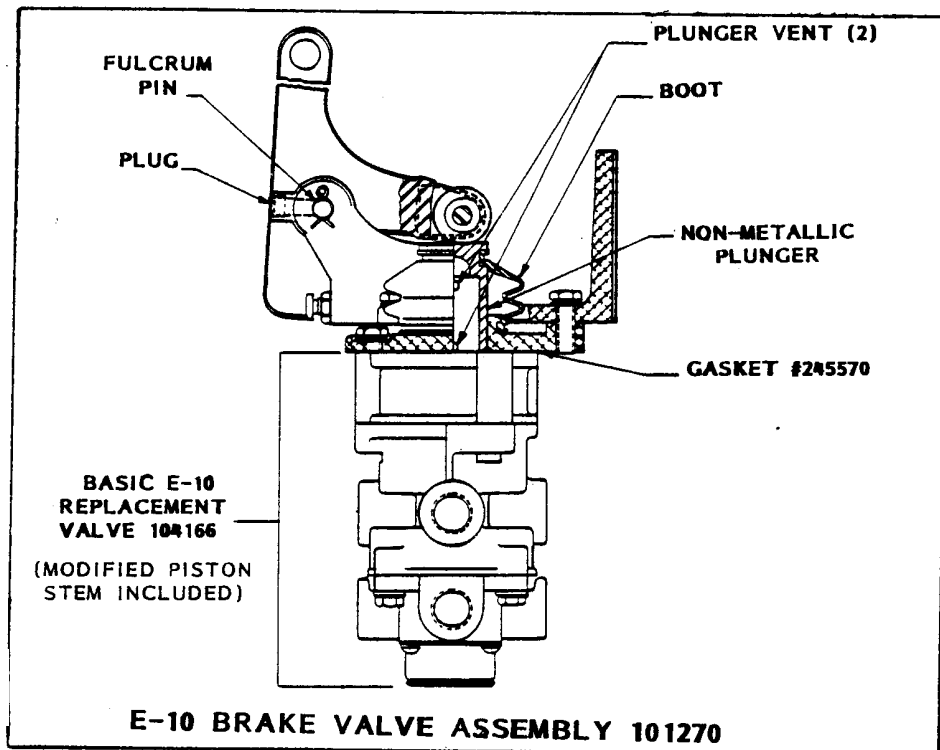


FIGURE 1

1. A stainless steel fulcrum pin replaces the standard pin. Factory lubrication of the bell crank and mounting bracket assembly permits the removal of the bell crank grease fitting and eliminates the need for periodic lubrication.
2. A bellows type boot replaces the standard E-10 boot. The bellows boot reduces chaffing and provides improved sealing between the plunger and mounting plate. The addition of a gasket (245570) between the valve body and mounting plate further improves overall valve sealing.
3. A special non-metallic internally vented plunger and a modified primary piston stem permits venting of the boot cavity into the brake valve exhaust. The piston and boot cavities are maintained at or very near atmospheric pressure eliminating the pumping action.

All 101270 brake valve assemblies built after December 21, 1983 incorporate these changes. The bellows style boot provides visual identification of current 101270 E-10 Brake Valve assemblies.

Existing 101270 assemblies can be changed to current revision using modification kit 265073. When installing modification kit 265073, we strongly recommend that maintenance kit 102100 also be installed.

The basic service replacement valve for E-10 Brake Valve assembly 101270 is now 104166 instead of 101100. The modified primary piston stem is used in 104166. (Reference catalog pages 03-J-1 & 2.) The existing maintenance kit (102100) will service basic valve 104166. When servicing or replacing basic valve 104166, gasket 245570 MUST be purchased separately.

