

# Maintenance Procedure

## No. P232

Page 1 of 2

TASK DESCRIPTION
CHECK OPERATION OF AC1 AND AC2 CONTACTORS UNDER VOLTAGE RELAY CIRCUIT FROM ALL RECEPTACLES.
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS
GM Locomotive Service Manual
SPECIAL TOOLS REQUIRED:
Special 575-volt dummy plug with toggle switch for testing UVR.
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS:
CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:
The test will be best carried out by two people, one located in the cab and the other on the ground.

### PROCEDURE

- 1 Ensure HEP is shut down and wayside not connected.
- 2 Install one test dummy plug on each side of the locomotive and regular dummy plugs on the remaining 575-volt receptacles.
- 3 Check that trainline complete indicator lights in the locomotive cab are on.
- 4 Start the HEP engine.
- 5 Place both the left and right HEP cutout switches in the normal (down) position and the HEP source selector to local position.
- 6 Press the HEP ON push button.
- 7 Ensure R.H. HEP ON and L.H HEP ON indicator lights are lit.
- 8 At one side of the locomotive, open the toggle switch labeled "6-8" on dummy plug tester. The UVR for this side should trip.
- 9 Check that the indicator HEP BREAKER OPEN on the overhead warning panel is on and the HEP ON light is off for the corresponding side of locomotive.
- 10 Repeat steps 8 and 9 for the other side.

DATE OF FIRST ISSUE	October 1997	AUTHORIZED BY:
REVISION 1		TITLE: Manager, Rail Equipment

Maintenance Procedure  
**No. P232**

Page 2 of 2

- 11 With both the HEP breakers open, shut down the HEP engine.
- 12 With test dummy plug still applied on one receptacle on each side, connect wayside power to each side. Check that wayside contactors are closed (red light lit on the wayside panel) and the 575V EXT. L.H. and 575V EXT R.H. lights are lit on the HEP control panel.
- 13 On one side of the locomotive, open toggle switch labeled "5-7". Wayside power for this side should trip. Check that the wayside contactor is open and that the 575V EXT indicator is out for this side.
- 14 Repeat step 13 for the other side.
- 15 Restore everything back to normal.

DATE OF FIRST ISSUE	October 1997	AUTHORIZED BY:
REVISION        1		TITLE: <div>Manager, Rail Equipment</div>