

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RESEARCH DESIGNS & STANDARDS ORGANISATION
MANAK NAGAR, LUCKNOW - 226 011**

No.EL/3.1.3

Dated 22.5.98

11.8.98

MODIFICATION SHEET NO. RDSO/WAM4/206

1. TITLE :

Modification to remove HQPDJ switch from the control circuit of Electric Locomotives.

2. OBJECT :

In the CELFs` conference held at Fairlie place, Eastern Railway, Calcutta on 4th and 5th May `98. The need of retaining HQPDJ switch in the control circuit of Electric Locomotives was deliberated. As pressure switches being used in the HQPDJ application are of Danfoss make, their reliability is quite proven and cases of their mal-functioning are almost negligible. On the other hand if HQPDJ is put on `off` by the driver in the initial stages of energising the locomotive due to impatience and if due to some reason fire starts in the locomotive with no tripping initially then as a result of fall in pressure DJ may get locked and will not open even if safety relays operate later on. This will result in continuous drawl of fault current from OHE and will aggravate the fire in the locomotive.

3. WORK TO BE CARRIED OUT :

- i) Control cable connections of `HQPDJ` switch are to be disconnected from the both ends and to be taped properly as per details given in Annexure I.
- ii) HQPDJ switch to be removed from the locomotive.

4. Material Required :

None.

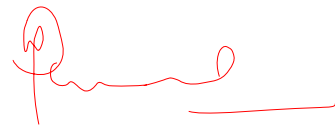
5. Application to the class of Locomotives :

All class of AC Electric Locomotives.

6. Material rendered surplus :

One No, HQPDJ switch.

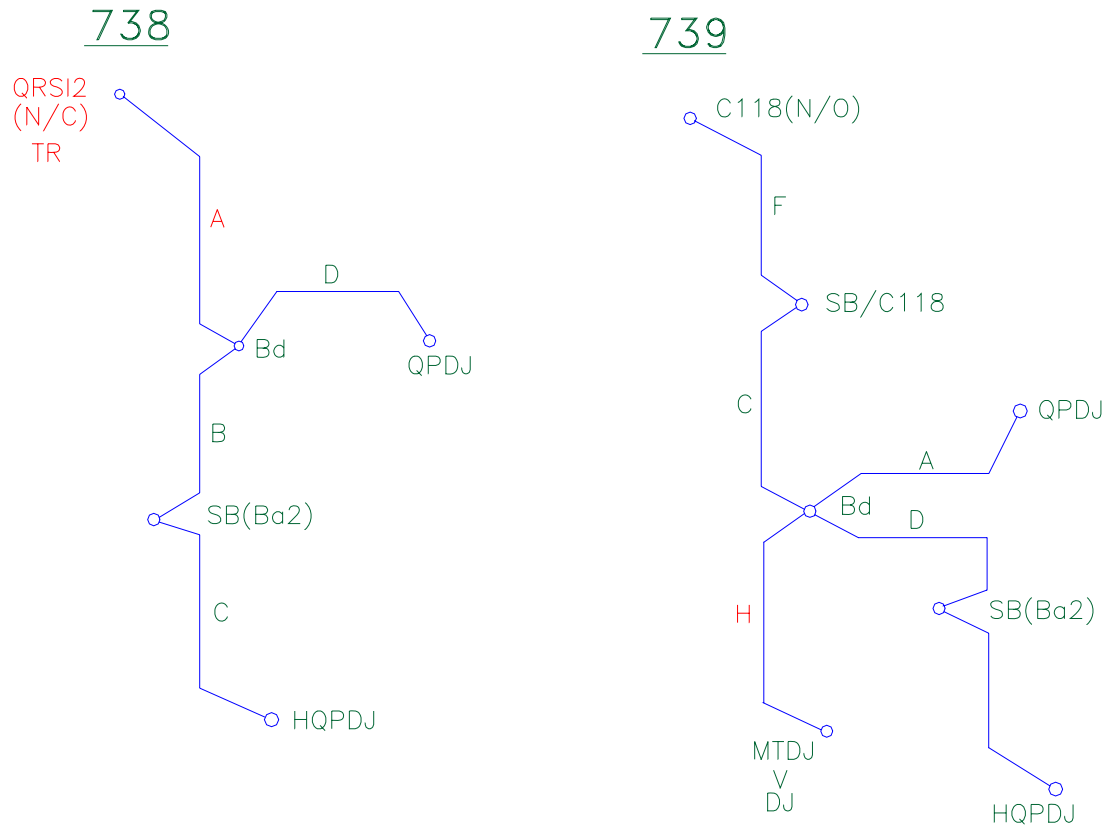
7. **Reference:**
Discussions held in the CELEs` conference.
8. **Modification Drawing :**
Annexure I.
9. **Agency of implementation :**
All Electric Loco Sheds, Workshops and CLW.
10. **Distribution:**
As per enclosed list.

A handwritten signature in red ink, appearing to be 'P. H. Pande', with a horizontal line extending to the right.

Encl: As above

(O.H. Pande)
for Director General/Elect.

CABLE INDEX OF HQPDJ CABLES(738 & 739)



WORK TO BE DONE

DISCONNECT CABLE No. 738B AND 739D FROM
Bd AND INSULATE THEM PROPERLY.

