

Engine Alteration Instruction No.493/55,
dated 2nd July 1955.
Removing cones from clackbox nozzles.
Applicable to various Garratt locomotives
operating on Rhodesia Railways

Notes to readers

The source document for this file was the Office Copy of the E.A.I. held in the National Railways of Zimbabwe Drawing Office in Bulawayo. It was discovered, in March 1998, while I was helping with searching for a complete set of drawings of the 15th Class locomotives after No. 398 had been purchased by a private group in New Zealand for eventual export to that country.

The original document was a duplicated copy hence the slightly indistinct type in some places. This was photocopied (with permission) on to A4 size paper while in the Drawing Office and the photocopies scanned when we were back in New Zealand.

The scanned file has been lightly “Photoshopped” to remove most of the artefacts resulting from the photocopying and scanning processes and to increase the contrast to make it more readable.

Any alterations, amendments or corrections done by hand have all been left in place and this file is a reasonably accurate reproduction of the original.

Alan Bailey
December 2010

ENGINE ALTERATION INSTRUCTION.

E.A.I. No : 493/65
 Dated : 2.7.55.

TOP FEED CLACKBOXES & FEED WATER HEATER CONES & DISTRIBUTORS.

(2) Boiler Mountings & Injectors

1. Reason. Feed water pre-heater cones and delivery cones do not serve any useful purpose as most locos are at present running without them with no ill effects. Removal will eliminate the cost of providing expensive superfluous items. (See C.M.E's Ref. M. 2. of 20.6.55.)
2. Alteration. Remove all water cones, combining cones, and delivery nozzles from top feed clackboxes having feed water heaters. The locking screws in the side of the clackbox castings which hold the delivery cones are to be left in position in case the refitting of this equipment becomes necessary, and also to save brazing those holes up at this stage.
3. Engines concerned. 9B, 11, 12A, 14, (New Boilers), 14A, 15, 16A.
4. To be carried out. At BLR & US Shops & Sheds.
5. To be completed. At General Repair and Wheel Job and at every opportunity at Sheds.
6. Abstract.

E.A.I. No.	9B, 11, 12A, 14 (New Boilers)	Remove feed water heater cones from combined top feed Clackboxes	Drawing Nos. 5522/2 Alt. 4 5523/2 Alt. 3.
Dated :	14A, 15, 16A.		
2.7.55.			

7. Charge. S.W.O. concerned.
8. Stores. No more cones to Cat. Item L.M. 6450/1, /2, /3, LM.6450/15, /16, /17, /21, L.M.6450/28, /29, /30, are to be made in future. Any outstanding Work Orders for these items are to be cancelled. All present stocks of these items in Stores will be withdrawn by M.E.s and the material placed in cases to be kept in Shops (See C.M.E's M.2 of 20.6.55.) The Catalogue is being amended accordingly.

Shops & Sheds. (a) Each Workshop will have a suitably sized packing case made so that all equipment removed from engines can be stocked therein.

(b) Sheds will remove this equipment and despatch it together with any Shed Store Stock, to their parent Workshops where it will be put into the packing cases referred to above.

(c) Sheds & B.I.s to watch results and report any ill effects on boilers.

(d) Shops and Sheds to watch for excessive build-up of scale on the main steam pipes below the clackbox.

(e) In 12 months time each M.E. will raise the question of disposing of the material. Should adverse effects on boilers be reported, orders may be issued to re-equip all engines and Drawing Office will go into question of providing a simpler and more effective design of distributing nozzle.

10. Drawings. Drawings 6717/13, 2/6571, and 3/6571 are now cancelled and all copies are to be returned to C.M.E.'s Drawing Office for destruction, together with previous copies of Drgs. 5522/2 and 5523/2, which are now re-issued to M.E. BLR (C.D.S.E.), P. and M.E.U.

W.A. Howard 2/7/59

ISSUED TO :-

M.E. B., P.P.O.(5), P.O.B., L.P.E., E.S.F.B., M.S.F.B., F.S.F.B.,
 B.F. B., F.F., P., M.E.U., A.M.E.U., L.P.U., E.S.F.U., M.S.F.U.,
 F.S.F.U., B.F.U., M.S., D.M.E. BLR (6 - 2 for A.M.E.s, 2- L.F. BLR,
 1-L.F. GO.), D.M.E. SA. (4- 1 for A.M.E., 1-L.F. SA, 1-L.F. US),
 D.M.E. BRO (4 - 1 for A.M.E., 1 L.F. BRO, 1 L.F. NDR), A.M.E. LR
 (3 - 1 for L.F. LR, 1 - L.F. WK.) B.I. Harding, B.I. Cromar,
 C.S.S., D.S.K. Blr, D.S.K. US.

/JH

Modified distributor nozzles are being fitted in place of those removed under this E.A.I. - See E.A.I. No. 872/59 dated 12.8.59.

ADDENDUM No.1 DATED 17.8.59 to E.A.I. No. 493/55