

LY 5/7.5 TON STALLION 4 X 4 GS MK - III (HINO - WO6DT - EURO) VEH

Modification Instructions

Retrofitment of Aluminium Radiator Assy in place of Copper Brass Radiator Assy

SUMMARY

1. Ly 5/7.5 Ton Stallion 4x4 GS Mk-III (Euro-1) veh supplied to Army are fitted with Copper Brass Radiator Assy with Cowl to Pt Nos B-1109001 (Alternate Pt No B-1109002 - S/A of Radiator and Cowl- Tekson Make). All Indian Manufacturer of Copper Brass Radiators have switched over to manufacture of Aluminium Radiators which is similar to the Copper Brass Radiators. To meet the spares requirement of these Radiators an alternative feasibility test performance of Aluminium Radiators was checked on Stallion Mk-III (Euro-1) veh by Vehicle Factory, Jabalpur and found satisfactory in all respect.

Items Affected

2. The Copper Brass Radiator Assy is the affected component.

Category of Modification

3. Category of this modification is 'B' and is to be carried out on as and when required basis.

Action to be Taken

4. Action to be taken by user/wksp/ordnance are enumerated below :-

(a) By User Unit

- (i) Demand modification stores as given in **Appendix 'A'** from Ordnance.
- (ii) On receipt of stores, submit work order on dependant workshop for carrying out the modification.

(b) By EME (Base Wksp/IntermediateWksp/Fd Wksp)

- (i) Replace existing Copper Brass Radiator Assy with Modification Kit for retrofitment on Stallion Mk-III (Euro-1) veh recd from Ordnance.
- (ii) Make an entry in the vehicle log book for modifications carried out.

(iii) Segregate stores removed from the vehicle into serviceable and unserviceable. Return stores to Ordnance depot (as per Para 5 below).

(c) **By Ordnance.** On receipt of demand for modification kit for Ly 5/7.5 Ton Stallion Mk-III (Euro-1) veh, issue complete set of Modification Kit to Pt No P-0989351 to user unit.

Stores Removed and their Disposal

5. The list of stores to be removed and returned to Ordnance Depot is given as under :-

| <i>Ser No</i> | <i>Nomenclature</i> | <i>Part No</i> |
|---------------|---------------------------|-------------------------|
| (i) | S/A of Radiator with Cowl | B-1109001/ B-1109002 |
| (ii) | Radiator Hose | F-1961650 |
| (iii) | Radiator Mtg Bkt RH | X-7115710 |
| (iv) | Radiator Mtg Bkt LH | X-7115810 |

Stores Required

6. The stores required as modification kit is listed at **Appendix 'A'**.

7. Details of modification procedure.

Procedure to disassemble the Copper Brass Radiator with Cowl and other items is given as under :-

- (a) Park the veh on hard surface and place wooden blocks (Wheel scotches) on front and rear tyres.
- (b) Tilt the Cabin fully and lock the cabin.
- (c) Un-fasten the Hose Clamps of Radiator and Charge Air Cooler (CAC). Drain and store the collant in clean container.

(d) Un-fasten the Radiator mounting bolts and remove the S/A of Radiator with Cowl to Pt No B-1109001 or B-1109002 alongwith CAC assy from the engine.

(e) Un-fasten CAC assy from Radiator Mounting Brackets and keep with Modification Kit.

8. Procedure to install Aluminium Radiator Modification Kit. Fitment of Aluminium Radiator with Cowl is as under :-

(a) Ensure the stores demanded from Ordnance are as per the list given at Appx 'A'.

(b) For proper fitment of items in the veh, refer **Sketches 1 to 4 given at Appx 'B'**.

(c) Refit CAC assy with new S/A of Radiator and Cowl to Pt No B-1127202. Fit the Rubber Ring on the Radiator Cowl with the help of Jupiter Hose Clamp to Pt No F-8208110 (Ref Figure 4). Keep the assy separately for retrofitment with engine.

(d) Fit the Fan Ring to Pt No X-0700713 and Fan Ring mounting bracket (LH and RH), Fan Ring Stay Top on engine with the help of fasteners (Ref Figure No 2).

(e) Mount the new Mounting Brackets to Pt Nos X-7184710 (RH) and X-7184810 (LH) for re-assembly.

(f) Fit the new Radiator Hose to Pt No X-1929750 (Ref Figure 1).

(g) Fit support Bkt to Pt No X-07185010 on engine crank case for clamping of outlet Steel pipe of Radiator (Ref Figure 3).

(h) Fit the Radiator and CAC assy with engine and connect the hoses and hose clamps.

(j) Refill coolant and prevent leakage if any.

(k) Down load the Cabin assy.

9. Inspection and Testing. Ensure all connections are secured properly and check the tightness of all fasteners. Check the function of the retrofitted Aluminium Radiator assy.

E N D

(74164/Stallion/AE-7)
(D-3336/Tech Pubs)

Appendix 'A'
(Refer Para 6)Stores Required : Modification Conversion Kit
Part No : P-0989351

| <i>Ser No</i> | <i>Pt No</i> | <i>Nomenclature</i> | <i>Qty</i> |
|---|--------------|-----------------------------|------------|
| Radiator Assy Items | | | |
| 1 | B-1127202 | S/A of Radiator with Cowl | 1 |
| 2 | X-1929750 | Radiator Hose | 1 |
| 3 | X-7184710 | Radiator Mtg Bkt RH | 1 |
| 4 | X-7184810 | Radiator Mtg Bkt LH | 1 |
| 5 | X-7185010 | Support Bkt | 1 |
| Fan Ring Items | | | |
| 6 | F-1270715 | Distance piece | 1 |
| 7 | F-1917950 | Rubber ring | 1 |
| 8 | F-8200314 | Fan ring stay top | 1 |
| 9 | F-8200414 | Bkt fan ring mtg RH | 1 |
| 10 | F-8200514 | Bkt fan ring mtg LH | 1 |
| 11 | F-8208110 | Jupiter hose clamp | 1 |
| 12 | X-0700713 | Fan ring | 1 |
| Fasteners for Stay to Ring | | | |
| 13 | L-2010820 | Set Screw M8x1.25, 20 long | 3 |
| 14 | L-3610818 | Nut M8 x 1.25 | 3 |
| 15 | L-411080 | SC Washers | 3 |
| Fasteners for Fan Ring Stay RH to Engine | | | |
| 16 | L-2011045 | Set Screw 10 | 1 |
| 17 | L-4111000 | SC Washers 10 Ø | 1 |
| Fasteners for Fan Ring Stay to Engine (Top and LH) | | | |
| 18 | L-20110815 | Set Screw M8x1.25 x 15 long | 2 |
| 19 | L-4110800 | Screw Washer | 2 |

Appendix 'B'
(Refer Para 8(b))

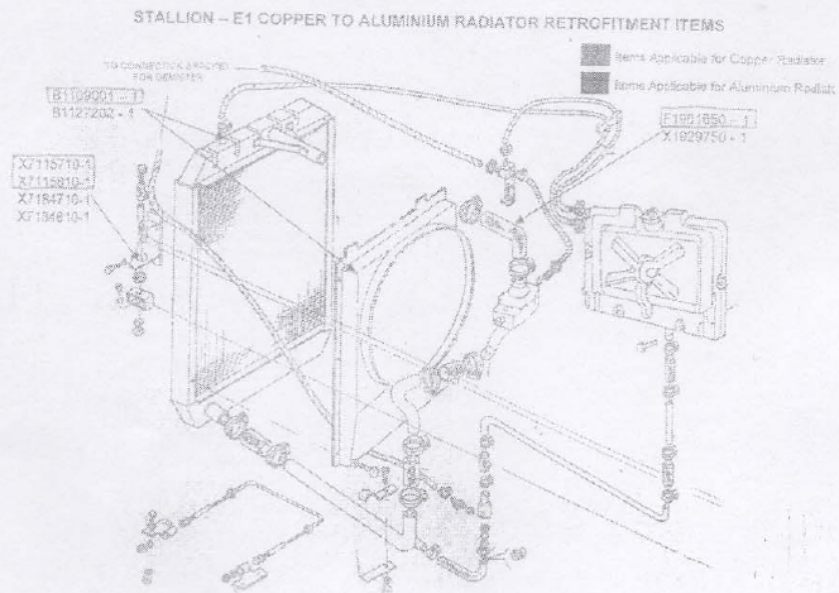


Figure - 1

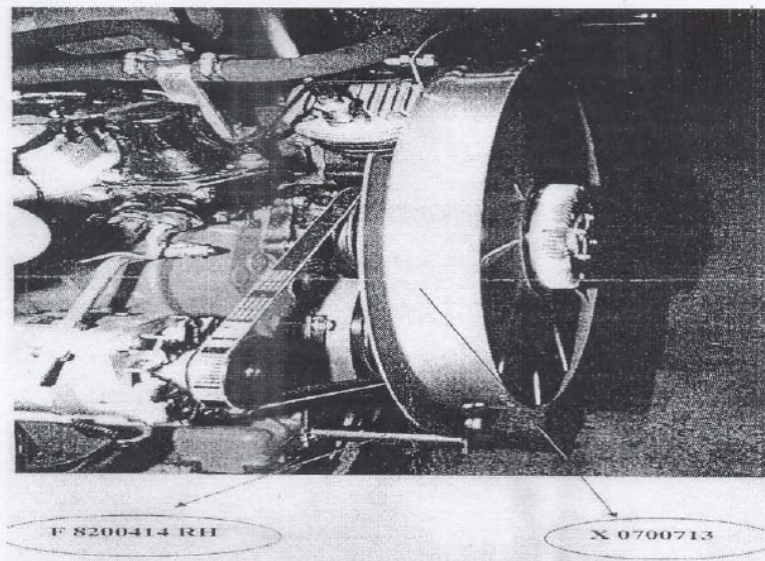


Figure - 2

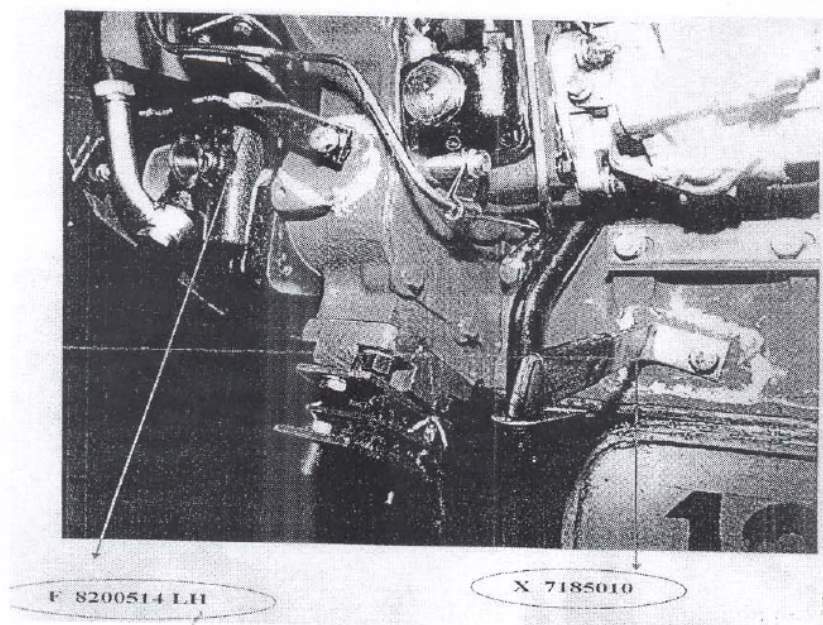


Figure - 3

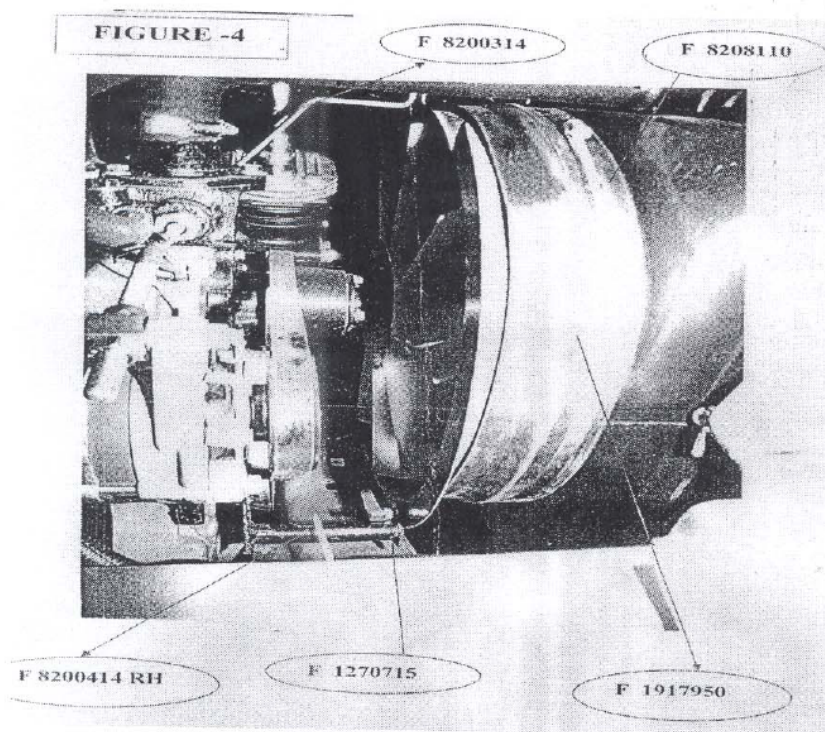


Figure - 4