

AXLE BOX GREASE PACKING PROCEDURE

THE OBJECT OF THE APPLICATION OF GREASE PACKING TO HOT AXLE BOXES IS TO GET THE LOADED VEHICLE TO ITS DESTINATION WITHOUT DELAY AND ALL CONCERNED MUST WORK TO THIS END.

THE EMPLOYEE DETAILED TO ATTEND TO A VEHICLE REPORTED, TO HAVE A HOT AXLE BOX MUST FIRST DETERMINE WHETHER THE JOURNAL HAS BEEN SCORED, IF THE JOURNAL IS IN GOOD CONDITION, I.E. NOT SCORED, THE BEARING IS TO BE REFITTED, OR IF THE BEARING IS DEFECTIVE A NEW ONE IS TO BE FITTED, THE BOX THEN REPADDED AND OILED AND THE VEHICLE DESPATCHED.

N.B. ONLY IF THE JOURNAL IS SCORED - FIG.1-IS THE AXLE BOX TO BE GREASE PACKED.



FIG. 1

ONE PIECE AXLE BOXES

- WHERE NECESSARY TO OBTAIN SUFFICIENT AXLE BOX MOVEMENT, REMOVE 'W' GUARD KEEP.
- PLACE JACK UNDER AXLE BOX AND RAISE SUFFICIENTLY TO REMOVE WEDGE - WHERE FITTED - AND BEARING.
- LOWER AXLE BOX ON JACK AND REMOVE WOOD BLOCK OR WOOL RETAINER, WOOL ROLLS AND GRID.
- CLEAN OUT AXLE BOX WITH COTTON WASTE OR OTHER MATERIAL.
- EXAMINE JOURNAL FOR SIGNS OF CRACKING. IF CRACKED WHEELS MUST BE REPLACED.
- EXAMINE BEARING. IF IN REASONABLE CONDITION REFIT. IF CRACKED OR BROKEN OR METAL RUN OUT FIT ANOTHER BEARING. A GOOD SECOND-HAND BEARING WILL BE SUITABLE FOR THIS PURPOSE.
FIG. 2 SHOWS - A. BROKEN BEARING.
B. METAL RUN OUT.
C. SUITABLE FOR RE-USE.
- PROCEED TO GREASE PACK THE AXLE BOX BY PLACING GREASE UNDER THE JOURNAL AND RAMMING INTO THE BACK CORNERS BY MEANS OF THE CRESCENT SHAPED RAMMING TOOL - FIG. 3 - DO NOT ATTEMPT TO GREASE PACK WHILST THERE IS SUFFICIENT HEAT TO MELT THE GREASE WHEN PLACED IN CONTACT WITH THE JOURNAL.
- RAISE AXLE BOX ON JACK AND PACK AND RAM GREASE INTO TOP BACK CORNERS OF BOX - FIG. 4.
- COMPLETELY COVER BEARING FACE WITH A THICK LAYER OF GREASE AND PLACE ON JOURNAL - FIG. 5.
- REPLACE WEDGE - WHERE FITTED - AND LOWER AXLE BOX ON JACK - FIG. 6.
- COMPLETELY FILL REMAINDER OF AXLE BOX WITH GREASE, ELIMINATING ALL AIR POCKETS AND RAM TIGHT. FACE OFF GREASE FLUSH WITH AXLE BOX LID FACE - FIG. 7.
- CLOSE AXLE BOX LID AND SECURELY WIRE GRID TO CORRESPONDING SPRING OR BOGIE SIDE FRAME USING 10 GAUGE RELEASE COCK WIRE - FIGS. 8 & 9.
- LOADED VEHICLES ARE TO BE GREEN CARDED TO BE RETURNED EMPTY TO NEAREST WORKSHOPS OR DEPOT AFTER DISCHARGE AT DESTINATION.
EMPTY VEHICLES ARE TO BE GREEN CARDED TO NEAREST WORKSHOPS OR DEPOT.



FIG. 2



FIG. 3

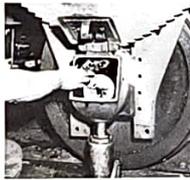


FIG. 4



FIG. 5



FIG. 6

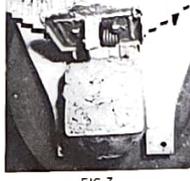


FIG. 7

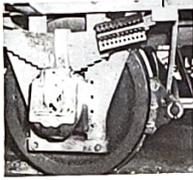


FIG. 8

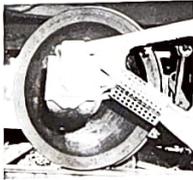


FIG. 9

AXLE BOXES WITH JOURNAL STOPS.

WHERE JOURNAL STOPS ARE FITTED TO THE AXLE BOX THEY MUST BE REMOVED BEFORE THE JOURNAL BEARING CAN BE EXAMINED IF THE JOURNAL IS IN GOOD CONDITION AND THE BEARING IS TO BE REFITTED OR RENEWED AND THE AXLE BOX REPADDED AND OILED, THE JOURNAL STOPS MUST BE REFITTED, BUT THE SHIMS ARE TO BE PLACED UNDER SET SCREWS ON OUTSIDE OF BOX THE VEHICLE IS THEN TO BE GREEN CARDED AS DETAILED IN STEP 13 ABOVE FOR ADJUSTMENT OF SHIMS.
IF THE AXLE BOX IS TO BE GREASE PACKED THE JOURNAL STOPS ARE TO BE PLACED IN THE BOTTOM OF THE AXLE BOX OR AXLE BOX PAN WITH SET SCREWS SCREWED INTO THEM AND THE GREASE IS TO BE PACKED ON TOP OF THEM. THE SHIMS ARE TO BE WIRED TO THE CORRESPONDING SPRING OR BOGIE SIDE FRAME WITH THE GRID.

TWO PIECE AXLE BOXES

- A. FIXED WHEEL & PLATE FRAME BOGIE.**
REMOVE 'W' GUARD KEEP OR HORN STAY, LOOSEN AXLE BOX PAN BOLTS AND LOWER PAN TO GROUND.
- B. DIAMOND FRAME PASSENGER BOGIE - 5 1/2 BOX.**
REMOVE HORN STAY, LOOSEN AXLE BOX PAN BOLTS AND LOWER PAN TO GROUND.
- C. DIAMOND FRAME FREIGHT BOGIE - B 2 BOX.**
TAKE WEIGHT OF VEHICLE ON JACK. IF AXLE BOX CONCERNED IS ON INNER PAIR OF WHEELS OF OB WAGON WITH GIRDER TYPE SIDE SILL, BOGIE MUST BE REMOVED FROM VEHICLE.
WITH JACK UNDER BOGIE SIDE FRAME CENTRE CASTING, TAKE WEIGHT OF BOGIE. REMOVE BOLTS HOLDING AXLE BOXES TO BOGIE SIDE FRAMES ON PAIR OF WHEELS CONCERNED, SPRING SIDE FRAMES IF NECESSARY AND RUN OUT PAIR OF WHEELS FROM BOGIE. LOWER AXLE BOX AND PAN TO GROUND.
- REMOVE WOOD BLOCK, WOOL ROLLS AND GRID FROM PAN AND CLEAN OUT WITH COTTON WASTE OR OTHER MATERIAL.
- A. FIXED WHEEL & PLATE FRAME BOGIE.**
TAKE WEIGHT OF VEHICLE ON JACK. ALSO FOR PLATE FRAME BOGIE, JACK UNDER BOGIE SIDE FRAME ADJACENT TO AXLE BOX. RAISE SUFFICIENTLY TO REMOVE SIDE SPRING OR BOGIE SPRING
- B. DIAMOND FRAME PASSENGER BOGIE - 5 1/2 BOX.**
WITH JACK UNDER SPRING BEAM OR BEAMS, RAISE SUFFICIENTLY TO ENABLE AXLE BOX TO BE LIFTED FOR REMOVAL OF BEARING.
- LIFT AXLE BOX AND TIE WITH ROPE OR SECURE BY OTHER SUITABLE MEANS WHERE NECESSARY AND REMOVE BEARING.
- EXAMINE JOURNAL FOR SIGNS OF CRACKING. IF CRACKED WHEELS MUST BE REPLACED.
- EXAMINE BEARING. IF IN REASONABLE CONDITION REFIT. IF CRACKED OR BROKEN OR METAL RUN OUT FIT ANOTHER BEARING. A GOOD SECOND-HAND BEARING WILL BE SUITABLE FOR THIS PURPOSE.
FIG. 10 SHOWS - A. BROKEN BEARING.
B. METAL RUN OUT.
C. SUITABLE FOR RE-USE.
- COMPLETELY COVER BEARING FACE WITH A THICK LAYER OF GREASE AND PLACE ON JOURNAL - FIG. 11 - DO NOT ATTEMPT TO GREASE PACK WHILST THERE IS SUFFICIENT HEAT TO MELT THE GREASE WHEN PLACED IN CONTACT WITH THE JOURNAL.
- LOWER AXLE BOX ON TO BEARING AND ENSURE THAT SPIGOTS ON BACK OF BEARING PROPERLY ENGAGE IN RECESSES IN BOX.
- A. FIXED WHEEL & PLATE FRAME BOGIE.**
REPLACE SIDE SPRING AND LOWER JACK OR JACKS.
- B. DIAMOND FRAME PASSENGER BOGIE - 5 1/2 BOX.**
LOWER JACK UNDER SPRING BEAM OR BEAMS.
- PROCEED TO GREASE PACK AXLE BOX FORCING GREASE UP AND AROUND JOURNAL WITH FINGERS AND RAMMING TIGHT - FIG. 12 - COMPLETELY FILL AXLE BOX WITH GREASE ELIMINATING ALL AIR POCKETS.
- COMPLETELY FILL THE AXLE BOX PAN WITH GREASE AND RAM TIGHT. GREASE SHOULD BE WELL HEAPED UP IN PAN - FIG. 13.
- PLACE PAN IN POSITION UNDER BOX AND BY MEANS OF JACK FORCE BOX HOME - FIG. 14.
- A. FIXED WHEEL, PLATE FRAME & DIAMOND FRAME PASSENGER BOGIE.**
TIGHTEN UP PAN BOLTS AND REPLACE KEEP OR HORN STAY.
- B. DIAMOND FRAME FREIGHT BOGIE - B 2 BOX.**
RUN WHEELS BACK INTO BOGIE AND REPLACE BOLTS. REMOVE JACKS UNDER BOGIE AND REPLACE BOGIE UNDER VEHICLE WHERE NECESSARY. REMOVE OTHER JACKS.
- SECURELY WIRE GRID TO CORRESPONDING SPRING OR BOGIE SIDE FRAME USING 10 GAUGE RELEASE COCK WIRE - FIGS. 15 & 16.
- LOADED VEHICLES ARE TO BE GREEN CARDED TO BE RETURNED EMPTY TO NEAREST WORKSHOPS OR DEPOT AFTER DISCHARGE AT DESTINATION.
EMPTY VEHICLES ARE TO BE GREEN CARDED TO NEAREST WORKSHOPS OR DEPOT.

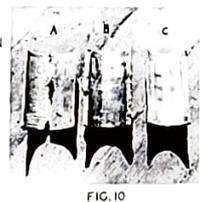


FIG. 10

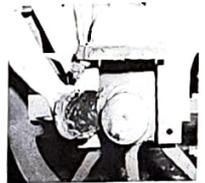


FIG. 11

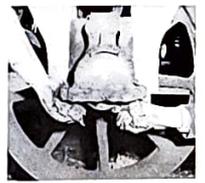


FIG. 12



FIG. 13

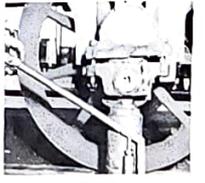


FIG. 14

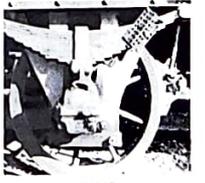


FIG. 15

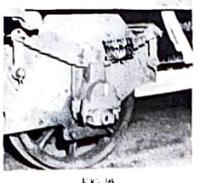


FIG. 16