

INSTRUCTION

TO CHANGE GREASE IN THE RAM.

The hydraulic system operates on a specially formulated grease which from time to time must be replaced.

1. Dismantle by removing the ram cover (fig 1.2) with soft jaw grips (A), (you may need to hold the ram body in a soft jaw vice, ensure you do not damage the body). Unscrew anti-clockwise. *Caution: the cover is spring loaded take care when removing.* carefully ease components 3, and 4 out of the cylinder.
2. Screw the T-handle (5) down as far as it will go, and then turn the handle in the opposite direction until it is removed from the body (fig 2.5).
3. Push a narrow screw driver (fig 2.9) (or a rod the approximate diameter of a pencil) down the small opening in head of ram (B), in order to push seals 6, 7, and piston 8 out of cylinder with grease (G). Note: A medium force may be required.
4. Clean the bore of the ram body with a clean cloth removing as much old grease as possible, and clean the extracted components.

Note: You should be able to see right through the ram. If not repeat steps 3.2.3.

5. Take the small metal piston (fig 3.8) and push it down into the narrow cylinder of ram ensuring the concave neck of seal is pointing in the direction of the T-handle.
6. Push the small plastic seal (fig 3.7) also down the narrow cylinder with the concave end of seal pointing back to the main chamber. Gently push both seals (7 & 8) down the narrow cylinder as far as they will go.
7. Remove the cap from grease bottle and squeeze the contents into the central bore of ram. The nominal fill of grease is 15grams (fig 4.G).
8. Take the large plastic seal (fig 5.6) with the open cup end (C) pointing in towards the narrow cylinder, and push it down the bore until it makes contact with the narrow cylinder neck (X).
9. Slide spring (3) over piston (4) and push components into the cylinder and so that the flat base of piston (4) mates together with the flat base of seal (6). Re-seal ram with retaining sleeve (2) using a pair of soft jaw grips or pliers. Apply pressure to the retaining sleeve so that the threads engage with those on the ram body and screw home. **DO NOT overtighten.**
10. Screw T-handle (5) into the ram head so that it butts up against piston (8) and turn a few more times.
11. Bleed the ram piston. Remove the T-handle (5) and firmly bounce the ram piston head (fig 6) on a hard but non damaging surface 6 - 10 times to consolidate the grease within. Replace the T-handle, wipe the ram clean and the unit is ready for use.

