

CHAPTER 5 : MAINTENANCE AND SERVICING

5.1 - RECHARGING WITH NEW GREASE AND CHANGING GREASE

The quantity of grease necessary for TMP operation was added to the bearings before the pump first started at the factory, and remains in the pump during shipment. The grease must be added to the bearings, periodically.(see fig. 7/2).

You must only use the ALCATEL grease contents in the syringe (see chapter 7)
When adding, proceed carefully with maximum cleanliness.

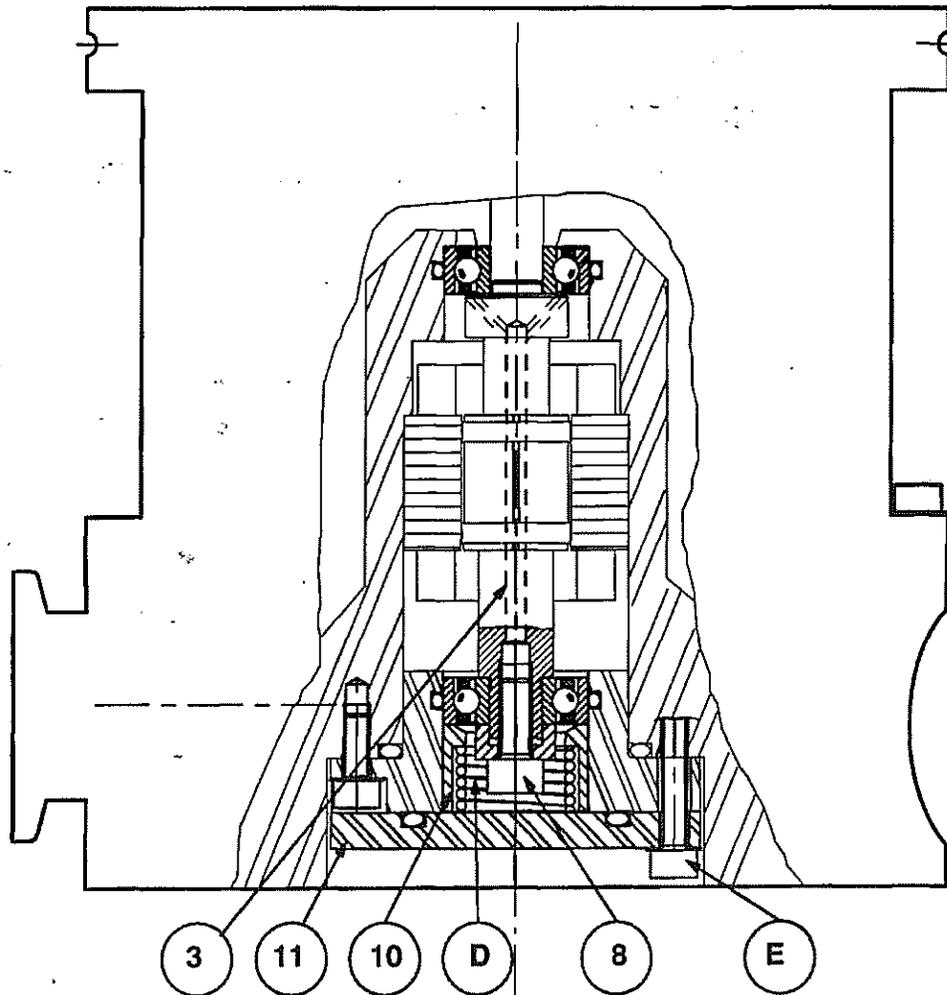
Warning :

- the TMP has two ball bearings : at every relubrication schedule, the user must relubricate the two ball bearings.
- The syringe is equipped with two removable spacers :
 - . one red spacer for the bearing opposite the pumping unit
 - . one black spacer for the bearing near the pumping unit.

Relubrication process

- 1) Stop the TMP and the RP.
- 2) Vent TMP to atmospheric pressure.
- 3) Ball bearing opposite the pumping unit (see figure 7/1)
 - Remove the part (11) unscrewing the 2 screws (E).(see photo 7.1).
 - Remove compression spring (D) and the spacer (10).
 - Insert the syringe to the ball bearing
 - Remove the red spacer and inject progressively the grease. (photo 7.2)
- 4) Ball bearing nearer to the pumping unit (see figure 7/1)
 - Insert the syringe through the screw (8) to the end of the axle (3).
 - The syringe must strike against the head of the screw (8) (see photo.7.3).
 - Remove the black spacer and inject progressively the grease. (photo 7.3)
 - Remove the syringe.
 - Reassemble the spacer (10) and the spring (D).
 - Close with the part (11) and its o-ring and screw with (E).

Schema



5.2 - Startup after "relubrication"

Start the TMP to atmosphere pressure for 6 min., as follows :

- Disconnect RP from TMP (vacuum connection).
 - . at time $t = 0$, press "start" button
 - . at time $t = 3$ min, press "stop" button } 1st cycle
 - . at time $t = 6$ min, press "start" button
 - . at time $t = 9$ min, press "stop" button } 2nd cycle
- continue like on the diagram below.

