

SERVICE ADJUSTMENT PROCEDURE - 229999 AIR HYDRAULIC PUMP

- I. If Air-Hydraulic Jack will not lift but **sounds** normal:
 - A. It is probably air bound. To correct, tip jack on its left side (as viewed from handle end) and cycle the air pump slowly.
 - B. The Hydramatic valve might be stuck open. To check, open release, pull bellcrank up to full height by hand, close the release valve while at full height and let go of the bellcrank. If it returns to low position, the trouble is in the hydraulic unit. If it holds position, lower the jack and try to make a lift with the air pump. If successful, the trouble was in the Hydramatic and raising the bellcrank by hand corrected it.
- II. If Air-Hydraulic Jack will not lift and does **not** sound normal, look for the following:
 - A. If the air pump is cycling unusually fast:
 1. The jack may be air bound.
 2. The suction ball in the hydraulic unit may not be seating.
 - B. If the air pump is not cycling at all, but air can be heard rushing out the exhaust port, the air pump should be removed and checked for the following:
 1. Rubber bumper on cushion spring may have been dislodged from the spring.
 2. The valve plunger assembly 223187 may be stuck open.
 3. The two weep holes in the pump retainer plug 223183 may be plugged with dirt.
 4. The return spring 223173 may be broken.
 - C. If the air pump is not cycling at all and no air is coming out of the exhaust, check for the following:
 1. The pump rod 231619 may be frozen in its packing gland.
 2. The Valve Plunger Assembly 223187 is not opening. Look for a bent Trip Washer or a bent or rusted Valve Plunger which has seized in the piston.
- III. If the jack will raise a load but much more slowly than normal, the trouble is almost certainly related to the air pump. Look for the following:
 - A. If the pump cycles very slowly:
 1. There may be a restriction in the air line between the air valve and the air pump.
 2. One of the weep holes in the 223183 Pump Retainer Plug may be plugged.
 - B. If the pump cycles very rapidly:
 1. The 225384 Trip Spring may be deformed or broken.