

OIL-HYDRAULIC POWER UNIT INSTALLATION INSTRUCTIONS

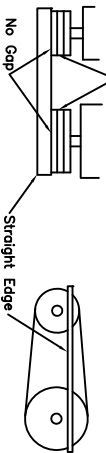
- CAUTION: CLEANLINESS IS OF PRIME IMPORTANCE. MAKE SURE THAT THE RESERVOIR AND PIPING IS KEPT CLEAN AT ALL TIMES. THE SYSTEM MUST BE FREE OF ALL DEBRIS BEFORE INITIAL START UP. ANY FOREIGN MATTER CAN SEVERELY DAMAGE THE HYDRAULIC SYSTEM.
- Locate and level power unit in machine room as shown on the Machine Room Plan View drawing of this package.
- For submersible units only, the power unit tank may be lured 180 degrees from that shown to facilitate piping in the event of changes to the machine room layout.
- Install the supplied circular neoprene isolation pads under the 4 corners of the power unit.
Note: If installation site is in a Seismic Risk Zone 2 or greater (see ASME A17.1) anchor the power unit using the 4 wedge anchors (supplied if required).
- PRIOR TO INSTALLING ANY PIPING, ENSURE THAT THE PIPING COMPONENTS ARE ABSOLUTELY CLEAN AND FREE FROM DEBRIS. If using Canton Elevator supplied piping, install piping in accordance with "Piping Installation" section of this instruction. If using piping from another source, it is recommended that an isolation coupling or approved flexible hose be installed in the oil line, in the machine room to dampen transmission of noise through the oil line. Piping must be adequately sized to avoid pressure loss in the system. A shut off valve should be installed in the line, adjacent to the power unit. Ensure that pipe from valve to jack is adequately supported and not in contact with the reservoir tank.
- PRIOR TO SERVICING THE RESERVOIR TANK WITH OIL, ENSURE THAT THE TANK IS ABSOLUTELY CLEAN AND FREE OF DEBRIS. With the car at the lowest landing, fill the reservoir with TEXACO RANDO HD 32 or equivalent to the level indicated on the dip stick or in the sight glass unit, (if provided as an option). After bleeding the jack unit, recheck the oil level. NOTE THAT PROPER MOTOR COOLING IS DEPENDENT ON THE REQUIRED OIL LEVEL IN THE RESERVOIR. If the unit is operated with oil below required level, damage to the motor may result.
- Route valve and motor wiring from inside power unit to the junction box. Note that the power unit is supplied with "knockouts" for wiring junction box at both ends. Install the junction box on the end of the power unit nearest to the starter/controller.
- Determine whether motor hook up is to be across the line or Wye-delta. Verify power supply and connect motor leads in accordance with the Pump Motor Connection Data Sheet and the controller schematic sheet of this instruction. NOTE—Power unit must be wired and grounded in accordance with the requirements of the National Electric Code and/or local codes as applicable.
- If oil heater is supplied, wire for 120 VAC single phase power.
- Make sure that the pump is filled with oil before start up, and that the gate valve is open. Check for proper pump rotation direction by jogging the motor. Correct rotation is clockwise and can be determined by observing the oil in the reservoir. Incorrect rotation of pump/motor is indicated by:
 - surface of oil being agitated by pump, but the level of oil in tank remaining constant.
 - abnormal gurgling noise from the pump.
 If rotation is incorrect, reverse motor leads and recheck. DO NOT operate the system until rotation direction is correct.

POWER UNIT INSTALLATION INSTRUCTIONS continued

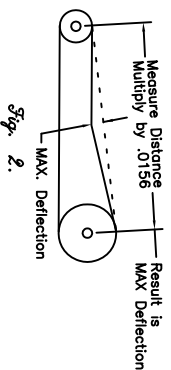
- With system at operating pressure, check all piping for leaks.
- Adjust the elevator control valve in accordance with the instructions included in this package.
NOTE:
— DO NOT EXPECT NORMAL OPERATION FROM THE POWER UNIT UNTIL THE COMPLETE CAR IS INSTALLED. THE ENTIRE WEIGHT OF THE BEING AND CARS IS REQUIRED TO PRODUCE THE NEEDED PRESSURE TO OPEN THE VALVE IN THE DOWN DIRECTION. — IT MAY BE NECESSARY TO ADD TEMPORARY WEIGHT TO THE PLATFORM TO OPEN THE VALVE IN THE DOWN DIRECTION BEFORE THE COMPLETE CAR IS INSTALLED.
- If the top of the installed cylinder is above the top of the reservoir tank (ASME A17.1), a minimum pressure switch is supplied. Switch is to be installed in the line for the jack to the valve. Switch activates at pressure below 10 PSI. When pressure switch is set with down normal limit switch, when pressure drops below switch setting, contacts will open breaking the down coil circuit. Note—Switch is normally open with no pressure in the system.

ADDITIONAL INSTRUCTIONS FOR BELT DRIVE UNITS

- In the event that pump maintenance is required, use the supplied pipe cap to cap off the pump inlet.
- Belt drive sheave alignment and belt tension have been correctly set at the factory, however, sheave alignment and belt tension should be rechecked before start up to ensure that factory adjustments have not been altered by shipment and handling.
A Check alignment of sheaves as follows. Lay a straight edge of sufficient length to span both sheaves across the face of the motor sheave as shown in Fig. 1. Check for a gap between the straight edge and the pump sheave or vice versa. If a gap exists, sheaves are misaligned and must be adjusted before operating unit.

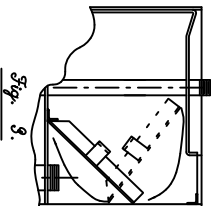


- Check belt tension as follows: Correct belt tension is determined by the deflection of the belts at mid point between the sheaves as shown in Fig. 2. The amount of belt deflection is 1/64" (.0156) deflection per inch of span. Note that the ideal tension is the lowest tension at which the belts will not slip under peak loads. Check tension frequently during the first 48 hours of operation. Over tensioning shortens belt and bearing life. If belts need replaced always use a "matched set".



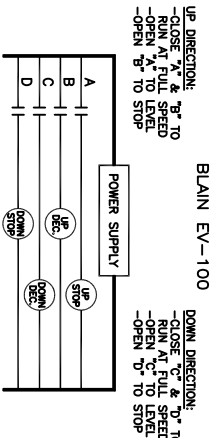
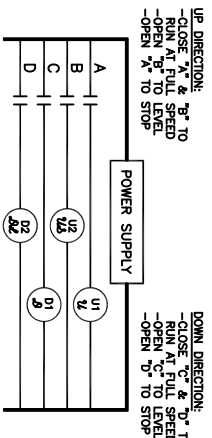
BELT DRIVE UNIT INSTRUCTIONS continued

- If belt drive unit is equipped with a tank strainer assembly, install the strainer as follows:
Orient the strainer diagonally to the opening and lower into the tank with the handle down and the beveled edge to the rear of the tank as shown in Fig. 3. Rotate the strainer assembly down into the position shown.



VALVE COIL OPERATING SEQUENCE

COIL IDENTIFICATION: UPPER IDENTIFICATION = EECO Lower Identifications = Maxicon



INSTALLATION
INSTRUCTIONS

READ THESE INSTRUCTIONS
CAREFULLY BEFORE
INSTALLING EQUIPMENT

