SUPPLEMENTAL INSTRUCTIONS
FOR AUXILIARY HYDRAULIC
POWER UNIT PP0207
FOR 60’, 70’ OR 90’
SQUEEZE BELTS®

IMPORTANT: Read through the main Owner’s manual and become familiar with all safety
alerts and warnings.

The attached information is for use in installing and operating the auxiliary hydraulic power
unit on a 60’, 70’ or 90’ Squeeze Belt® Conveyor. It is intended to supplement the information
provided in the Owner’s and Operator’s manual for these conveyors.

IMPORTANT: Read through the manual provided with the Haldex Hydraulic Power Unit
(Part No. 1028724). **NOTE: The power unit is shipped without oil and must be filled
prior to operation.** Refer to the filling instructions provided in the Haldex manual. During
initial start up, oil will be consumed to fill hoses and cylinder bores, so additional oil will
need to be added at that time. The auxiliary hydraulic oil reservoir will need oil also as the
power unit’s reservoir may not hold the volume of oil required to extend the lift cylinders of
the conveyor.

WARNING: The hydraulic power unit is specifically designed for intermittent duty
applications. Any attempt to run the unit for extended periods of time may cause damage
to the unit. The hydraulic unit must also be used for vertical mounting only (motor up/
reservoir down).
INSTALLATION INSTRUCTIONS

FIGURE FOR 90' SQUEEZE BELT

PART NO. 09100751
PIVOT SUPPORT PLATE
SEE DETAIL "A"

DRILL 13/32" (10mm)
HOLE IN UPPER WIND GUARD

5/8" (16MM)

09100751
SUPPORT PLATE
USE TO LOCATE HOLES
TO BE DRILLED IN WIND GUARDS

DRILL 9/16" (14mm)
HOLE IN SIDE PANEL

9/16" (14MM)

DRILL 13/32" (10mm)
HOLE IN LOWER WIND GUARD
HOLD EDGE OF 09100751 PLATE TIGHTLY
AGAINST EDGES OF SIDE PANEL

DETAIL "A"

FIGURE FOR 60' OR 70' SQUEEZE BELT

PART NO. 09100751
PIVOT SUPPORT PLATE
SEE DETAIL "A"
INSTALLATION INSTRUCTIONS

FIGURE FOR 90’ SQUEEZE BELT

FIGURE FOR 60’ OR 70’ SQUEEZE BELT
OPERATING INSTRUCTIONS
& PARTS MANUAL

AC HYDRAULIC POWER UNITS
FOR AUTO HOISTS
MODEL 10590

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

Description

The Haldex AC hydraulic power unit is specifically designed for auto hoist applications. However, it may be used for other intermittent duty applications that utilize the power up - hold - gravity lower hydraulic circuit. This hydraulic unit must be used for mounting in a vertical position (motor up, reservoir down) and is typically mounted on the side of the auto hoist frame. It is pre-wired with a push button start switch. Additional features include a load holding check valve, a manual lowering valve with "feathering" capabilities and a 3 gallon capacity reservoir. The adjustable relief valve is preset at 2200 PSI.

WARNING!

THIS HYDRAULIC UNIT IS SPECIFICALLY DESIGNED FOR INTERMITTENT DUTY APPLICATIONS. ANY ATTEMPT TO RUN THE UNIT FOR EXTENDED PERIODS OF TIME MAY CAUSE DAMAGE TO THE 115/208-230 VAC ELECTRIC MOTOR.

Unpacking

Check unit for any apparent shipping damage. The contents of the carton will include (1) AC hydraulic power unit and (1) breather cap and (1) 45° street elbow. If any of these components are missing or there is any noticeable damage, please contact the office where the item was purchased.

Specifications

Motor ........... 3.5 HP, 115/208-230 volt, 60 Hz, 3450 RPM, T.E.N.V., 56 frame, single phase
Pump ............ 129 cu. in./rev. displacement, performance is 1.9 GPM at 1750 PSI
Valving ........... Check valve
                  Manual release valve
                  Relief valve factory set at 2200 PSI
Porting ........... 9/16-18 SAE outlet/return for single acting cylinder, 3/8-18 NPT Cylinder Vent Port
Rotation ........... CW looking at drive end of motor
Reservoir ........... 3 gallon capacity, cylindrical
Accessories ....... Push button momentary contact start switch
Mounting ......... Plumbed for vertical mount.

AUTO HOIST POWER UNIT ORDERING DATA

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<tbody>
<tr>
<td>0.129</td>
<td>1.20</td>
<td>1600</td>
<td>2000</td>
<td>3.6</td>
<td>3450</td>
<td>115/208-230</td>
<td>1</td>
<td>60</td>
<td>35</td>
<td>99</td>
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</table>

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General Safety Information

1. Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

2. For Single Phase Motors use 3-wire cords with 3-prong grounding type plugs.

3. Make certain that wire size is adequate for horsepower requirements.

NOTE: Voltage drop increases with the length of power cord. Larger wire diameter may be required.

4. Nameplate voltage must be available at the motor when it is operating. Avoid voltage drop with adequate wiring.

5. Replace or repair damaged or worn power cord immediately.

6. The use of 3-prong single phase adapters in Canada is prohibited by the Canadian Electrical Code.

7. DOUBLE CHECK ROTATION! Motor rotation is clockwise facing drive end of motor.

8. On start-up, jog the motor to prime the pump to insure adequate lubrication. After inlet line is full, motor may be operated at full speed.

\section*{CAUTION}
NEVER RUN THE PUMP DRY.

9. Keep all lines as short as practical.

10. Never exceed the maximum operating pressure.

11. Do not overtighten fittings, bolts, etc., as this can damage the units.

12. Provide adequate cooling for the hydraulic oil so as not to allow oil and/or component damage due to excessive temperatures. Excessively high operating temperatures can be hazardous and may cause property damage and/or personal injury.

13. Follow safety guidelines as recommended by Auto Hoist Manufacturer.

\section*{Assembly}
The 10590 Auto Hoist unit comes fully assembled from the factory. Just remove the filler breather and fill the reservoir with oil.

\section*{Installation}

1. Select a good location to mount the hydraulic power unit. This style of unit is usually mounted on the side of the auto hoist frame. Mount at least 18.0" above the floor. Choose a clean, dry area with adequate ventilation and preferably near the electric power source.

2. This hydraulic power unit is designed for vertical mount with motor feet up and reservoir down. Choose a flat mounting surface to bolt motor base to. See unit dimensions for motor base bolt pattern.
Installation (Continued)

When wiring the motor, follow all local electrical and safety codes as well as the National Electrical Code (NEC) and Occupational Safety and Health Act (OSHA).

For Single Phase Motors use 3-wire cords with 3-prong grounding type plugs.

⚠️ WARNING ⚠️

REPLACE OR REPAIR DAMAGED OR WORN POWER CORDS IMMEDIATELY.

⚠️ WARNING ⚠️

DO NOT OPERATE UNITS WITHOUT PROPER GROUNDING.

⚠️ CAUTION ⚠️

DO NOT RUN HYDRAULIC UNIT DRY; SEVERE PUMP DAMAGE MAY RESULT.

⚠️ CAUTION ⚠️

Always shut electrical source off when servicing machinery.

Operation

⚠️ CAUTION ⚠️

PRIOR TO OPERATION:

1. Double check all hydraulic and electric connections.
2. Confirm that reservoir is filled with hydraulic fluid.
3. Put all equipment guards in place.
4. Clear all persons from work area.
5. Check for loose tools, equipment, or anything that might interfere with operation of equipment.

OPERATION

1. START UP - When initially starting unit up, be sure to jog the unit (intermittently run unit) several times. This will prime the pump and fill the hydraulic lines.
2. After hydraulic lines have been filled check reservoir for sufficient oil level. Replenish oil level if necessary.

⚠️ CAUTION ⚠️

DO NOT OVERFILL.

AUTO HOIST SAFETY GUIDELINES:

A. Remain clear of lift when raising or lowering vehicle.
B. Do not exceed weight capacity of lift.
C. Clear area if vehicle is in danger of falling.
D. Avoid excessive rocking of vehicle when on lift.
E. Lift should be used by trained operator only.
F. Use vehicle manufacturer's lift points.
G. Always use safety stands when removing or installing heavy components.
H. Keep feet clear of lift while lowering.
I. Allow lift access to authorized personnel only.
J. Read operating and safety manuals before using lift.
K. Proper lift maintenance and inspection is necessary for safe operation.
L. Do not operate a damaged lift.

Maintenance

1. Keep the reservoir filled with hydraulic fluid. Use a good quality automatic transmission fluid (ATF). To fill the reservoir with clean oil, use a clean funnel fitted with a fine mesh wire screen. Do not use a cloth strainer. Most pump/fluid motor failures, valve malfunctions, and short unit life can be traced directly or indirectly to dirt or other foreign materials (water, chips, lint, etc.) entering or already in the hydraulic system.
2. Make a frequent inspection of hydraulic fluid and change if contaminated.
3. Regularly inspect hydraulic hoses and fittings for wear or leakage.
4. Keep the unit clear of dirt and foreign materials.
5. Keep electrical connections clean.
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE(S)</th>
<th>CORRECTIVE ACTION</th>
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</table>
| Motor won't start                            | 1. Loose connection  
2. Circuit breaker tripped  
3. Voltage drop  
4. Seized pump  
5. Start switch                                  | 1. Check wiring  
2. Reset circuit breaker  
3. Use heavier gauge wire  
4. Replace pump  
5. Replace start switch                          |
| Will not pump oil (Motor runs but cylinder does not move, or moves slowly) | 1. No oil in reservoir  
2. Motor rotation wrong  
3. Oil level low  
4. Suction strainer is clogged  
5. Double acting cylinder piston seals are cut or worn out  
6. Reservoir breather is dirty or clogged | 1. Check oil level, refill  
2. Rewire  
3. Add oil as needed  
4. Clean suction strainer  
5. Replace or repair cylinder  
6. Clean reservoir breather and reinstall         |
| Pump motor unit is noisy                      | 1. Low oil level  
2. Air in system  
3. Suction strainer or inlet filter is clogged | 1. Add oil as needed  
2. Bleed air from highest fitting in system by loosening fitting very slightly and operating unit until bubbling of air stops, then tighten  
3. Clean suction strainer or inlet filter       |
| Unit does not develop full pressure          | 1. System relief valve set too low, or leaking  
2. Pump worn out  
3. Suction strainer or inlet filter is clogged | 1. Check system relief valve for proper setting with pressure gauge in outlet line  
2. Replace worn parts or pump  
3. Clean suction strainer or inlet filter        |
| Lift drifts down                              | 1. Contaminant holding lowering valve open  
2. Contaminant holding check valve open  
3. Bad check or release valve seat               | 1. Depress motor start switch and lower valve handle at the same time to flush valve seat area  
2. Remove check valve, depress check ball, and flush  
3. Replace valve                                |
THIS DRAWING IS APPLICABLE TO THE FOLLOWING P/N'S:
JSB P/N 1280624
NORTHERN HYDRAULICS P/N 10590
ASSEMBLY PHOTOS
ASSEMBLY PHOTOS
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