

Cebby's JD2 Model 3 Hydro Conversion

Sept. 23, 2005



PARTS LIST

Hydraulic Components

- Hydraulic pump (Northern Tool part #105871) - 1 HP 115/230V, 1.5 gal reservoir, 1.25 gpm, max. 2000 psi
- (1) 4-way control valve (Northern Tool part #2010) - 1000 to 3000 psi relief valve, factory set at 1500 psi, 3/4" inlet/outlet, 1/2" working ports
- Hydraulic cylinder - Lion model 30TH24-150 (Northern Tool part #992031 for 3000 psi unit or #992010 for 2000 psi unit)

NOTE: Prince Cylinder model # SAE9224 (Northern Tool part #909224) in Jay K's writeup is no longer available from Northern as of 9/20/05

Hydraulic Hoses and Fittings (my setup differs from the parts below due to my utilization of custom hoses)

- (2) 1/2" x 24" 2-wire hydraulic hose (Northern Tool part #50124)
- (2) 1/2" x 36" 2-wire hydraulic hose (Northern Tool part #50136)
- (2) Reducer bushing 3/4" M-NPTF to 1/2" F-NPTF (Northern Tool part #50CSC128)
- (7) 90° 1/2" NPT elbow (Northern Tool part #50ARC008)
- Bushing/Standoff 3/8" O-Ring M to 3/8" O-Ring F (no Northern P/N exists)
- Swivel Adapter 3/8" O-Ring M to 1/2" NPT F (no Northern P/N exists)
- Swivel Adapter 1/2" O-Ring M to 1/2" NPT F (no Northern P/N exists)

Electrical Components

- Single electrical box (metal)
- Single switch plate (metal)
- Switch
- Appliance cord with molded 3 prong plug
- 1/2" Ferrule
- 1/2" conduit locknuts

JD2 Model 3 arms and die(s) or Pro Tools 105

Raw Steel

- 6" ship channel - 5' (main beam)
- 3/8" plate x 6" x 4' (top plate)
- 1 1/2" x 2" x 12' rectangular tube-1/8" wall (legs)
- 1/2" solid round bar (die storage)
- 1" square tube x 6'+/- (die storage)
- 1" angle x 9'+/- (pump shelf)
- 2' x 4' Expanded Steel (pump shelf - cut to size)
- 1" Bolts (5" and 7"), nuts, washers
- 1"+/- ID Pipe (sleeving for bolts)
- Misc. 1/8" plate for caster mounting.

Utilize drops as shown above in build up article. Misc. notes:

- Ship channel remaining - use for end support in "H" configuration - roughly 5 1/4"h.
- Top plate remaining - use for pocket around bender arms - roughly 5 1/4"h and leg assembly top plate.

Paint

- Self Etching Primer
- Machine Paint of your choice