

OPERATING INSTRUCTIONS FOR MODEL 61 TRANSMISSION JACK

Hein-Werner transmission jacks are designed to accommodate all late model transmissions including the "Corvaire Power Train" and "Powerglide." (Special adapters available for each.)

The Model 61 provides fast, safe one-man operation with ease. Its versatility permits removal and installation of most all makes of automobile, light and medium truck transmissions.

SPECIFICATIONS

Capacity	1,000 lbs.
Low Height	31 $\frac{3}{4}$ "
High Height	75 $\frac{1}{2}$ "
Wheel Base	32"
Wheel Dia.	4"
Forward Tilt	50°
Side Tilt	12°
Rear Tilt	15°
2 Speed Pump	Automatic variable release rate
Shipping Weight	148 lbs.

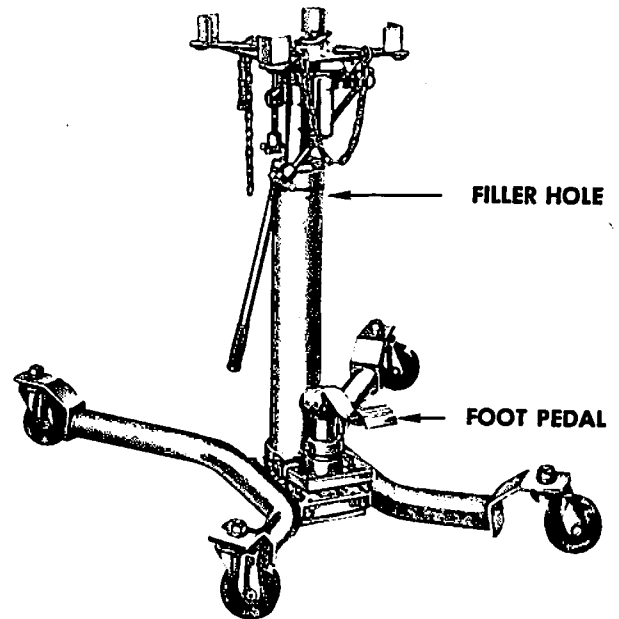


Illustration No. 1

ASSEMBLY

1. Place hydraulic unit with foot lever between the two short legs of frame as shown in Illustration #1. Bolt legs to unit with 4-1 $\frac{1}{8}$ " bolts and lock washers provided in bag.
2. Assemble casters to legs.
3. Remove filler screw in top of unit and replace with vented filler screw. This will allow your jack to breathe.

INSTRUCTIONS FOR USE

1. **BEFORE USING** — With release lever depressed, pump pedal several times to expel excess air from the piston area. It should then be possible to raise the ram with normal foot pedal action.
2. **BLEEDING** — Place a load of approximately 150# on the saddle. Set Speed Control to fast (clockwise). Raise jack until small ram becomes active. Loosen piston bleed screw (under foot pedal) approximately one turn. Set Speed Control to Slow to assure that only the high pressure piston is active. Slowly push foot pedal until oil leakage is evident. TIGHTEN SCREW. The jack is now ready for use.
3. **AUTOMATIC CONTROL** — Know your jack performance as well as you know the Automatic Transmission you are about to remove. Two automatic and one manual feature operate as follows:
 - a. Automatic shift of the 2-stage pump triggered by load or system pressure.
 - b. Selective control of the automatic shift pattern for loads between 80 and 300 pounds.
 - c. Automatic override from low lift speed, to high as determined by rate of pumping action.

With the average transmission, best performance will be realized with the Adjusting Lever 15° to 30° forward of mid position.

4. **RAM TRAVEL — Set Speed Control to FAST.** With the above mentioned load, raise the jack at a sequence of approximately one full stroke per second. The large and small rams should raise $\frac{7}{8}$ " and $1\frac{5}{8}$ " per stroke, respectively.

Set Speed Control to Mid Range. The large ram should continue at $\frac{7}{8}$ " per stroke. When the small ram becomes active, the pump shift will take place and the ram movement changes to $\frac{1}{2}$ " per stroke.

Return Speed Control to within 45° of the **full SLOW position**. This is to acquaint you with the fast pump override action. With the small ram active and under a typical load, apply 2 or 3 **fast pumps**. Move Control Lever clockwise approximately 1 cast serration. Repeat until heavier pump effort and/or a greater ram travel is observed. Pump at a normal rate and observe that the ram travel automatically returns to a slow rate for precise positioning.

5. **RAM BLEEDING** — Should the small ram feel "spongy," loosen the **knurled top nut** until seepage of oil is evident. Then retighten **hand tight**. This can be done with load as in #2 — or without load by **fully extending** the ram under a light pumping force.
6. **RELEASE** — An infinitely variable range of speeds are available for fast lowering and precise positioning.
7. **POSITIONING LIFTING SADDLE** — After saddle is properly centered beneath the transmission the four (4) adjustable corners are then placed tight against the corners of the pan. This will prevent the load from sliding.

Normally the transmission weight will be carried by the oil pan resting on the saddle plate. Multiple positioning of the corners can be readily made to accommodate any pan configuration.

In cases where exceptional tilting of the transmission is required, this can be done either by hand or by inserting a socket wrench drive in the socketed tilt handles.

A chain is furnished to secure the transmission to the saddle plate. This assures a firm grip on the transmission and prevents slippage or loss from the support saddles.

INSTRUCTIONS FOR INSTALLING CHEVROLET "CORVAIR POWER TRAIN" ADAPTER HEAD

1. Remove swivel corners from jack.
2. Bolt Power Train Adapter Head to lifting saddle as shown in Illustration No. 2. Use the 4 mounting bolts that hold the corners to the jack.
3. Raise vehicle until bottom of oil pan is at working height. (High height of the No. 61 with Power Train Adapter Head is $75\frac{1}{2}$ ".)
4. Proceed to remove Power Train per Chevrolet Corvair instruction manual.

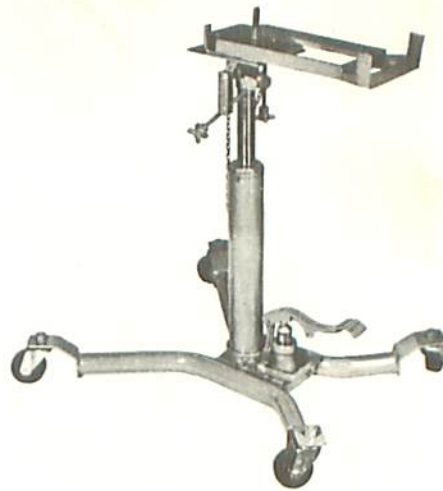


Illustration No. 2

GENERAL CARE OF YOUR JACK

1. Lubricate regularly all moving parts of the jack — pay special attention to the tilt screws and related linkages.
2. Use only genuine Hein-Werner hydraulic jack oil in the pump unit. Never use alcohol or hydraulic brake fluid. With the saddle fully down, the oil level should be up to the filler screw hole located at the top of unit. To facilitate adding oil, attach a piece of $\frac{1}{8}$ " copper tubing 5" long to the spout end of a regular pressure oil can. This tubing can be inserted through the filler hole into the reservoir space between the outside tube and inside ram cylinder. The proper amount of oil can then be easily added, and at the same time excess air can escape.

Hein-Werner

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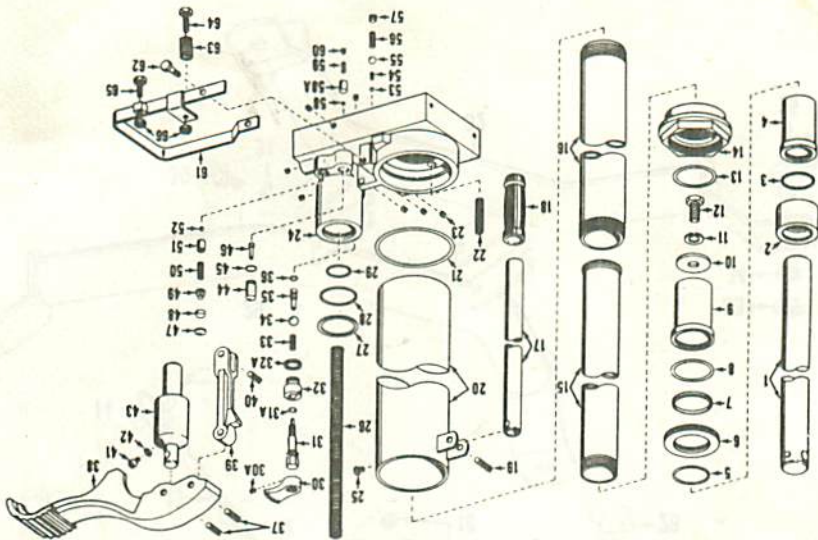


MODEL "61"

HYDRAULIC TRANSMISSION JACK REPAIR PARTS LIST

UNIT ASSEMBLY

ITEM NO.	DESCRIPTION	NEW PART NO.	OLD PART NO.
1	Rod	21140	1779
2	Nut	21150	1781
3	"O" Ring	16350	ARP568-222
4	Moving Bearing	21145	J780
5	"O" Ring	16353	ARP568-223
6	Wiper Nut	21250	J799
7	Wiper	12760	4020-21
8	"O" Ring	16490	ARP568-226
9	Stationary Bearing	21220	J794
10	Rod Guide	21075	J764
11	Lockwasher	25390	1/2
12	Regulator Hex Hd. Capscrew	80363	1/2-13x1
13	"O" Ring	16365	ARP568-227
14	Top Nut	21225	J795
15	Moving Cylinder	7715	19A60
16	Stationary Cylinder	21135	J778
17	Handle	21040	J7104
18	Handle Grip	13830	5528R
19	Roll Pin	35355	5/8x1 1/2
20	Reservoir Assembly	7720	19A61
21	"O" Ring	14620	ARP568-242
22	Screen	9820	30102
23	Plug (7)	3525	J763
24	Base	21070	J763
25	Rd. Hd. Machine Screw	25620	1/2-28x3/4
25A	Filler Screw (Vented)	21235	J797
26	Piston Spring	20885	S124
27	Backup Washer	80139	6244-2
28	ARP568-224	16355	ARP568-214
29	"O" Ring	16290	ARP568-214
30	Speed Kit	80790	Oil L
30A	Cone Pt. Set Screw	26793	6-33x1/2
31	Adjusting Screw	21048	J7108
31A	ARP568-012	16257	J7109
32	"O" Ring	21051	J7110
32A	GA139-1	17785	Washer
33	Rod	3135	5135
34	VD25-116	35	J768
35	Pressure Reg. Piston	21090	23530
36	ARP568-009	14595	ARP568-009
37	Roll Pin	26410	26410
38	Foot Pedal	21115	J774
39	Foot Pedal Link	21110	J773
40	Roll Pin	26395	3/8x1 1/2
41	Fill. Hd. Machine Screw	25605	1/2-28x3/4
42	ARP568-010	14605	ARP568-010
43	Piston	21105	J772
44	Release Pin	21085	J767
45	ARP568-012	16257	ARP568-012
46	Valve Spacer	21080	J766
47	Expansion Plug	25370	1/2
48	Seal	11520	385
49	Safety Valve Screw	17520	G67-1
50	Spring	16750	F4,4
51	Spring Cap	17055	G235
52	Ball	17220	125C
53	1/2 Ball	2675	1232
54	Spring	3010	125D
55	Ball	3010	125D
56	Spring	11160	332A
57	Dryseal Sock. Hd. Pipe Plug	25435	1/2-18
58	1/2 Ball	2675	125C
58A	Spring Cap	17055	G235
59	Release Spring	18035	G468
60	Dryseal Sock. Hd. Pipe Plug (5)	25935	1/2-27
61	Release Lever	7675	19A54
62	Shoulder Bolts (2)	21130	J777
63	Spring	20865	S120
64	Hex Hd. Capscrew	81020	1/2-28x1 1/2
65	Hex Hd. Capscrew	81021	1/2-28x1
66	Reg. Hex Nut	25480	1/2-28
67	Decal (Not Shown)	80142	TJ102



TRI-CITY HYDRAULIC JACK SERVICE
 4628 N. Florida Avenue
 Tampa, Florida 33603-3700
 (813) 236-8551

USE NEW PART NUMBER ONLY WHEN ORDERING PARTS
 Order parts from the nearest Hein-Werner Official Service Station. Always state both model and serial number.
 USE ONLY GENUINE HEIN-WERNER HYDRAULIC JACK OIL IN ANY HEIN-WERNER JACK
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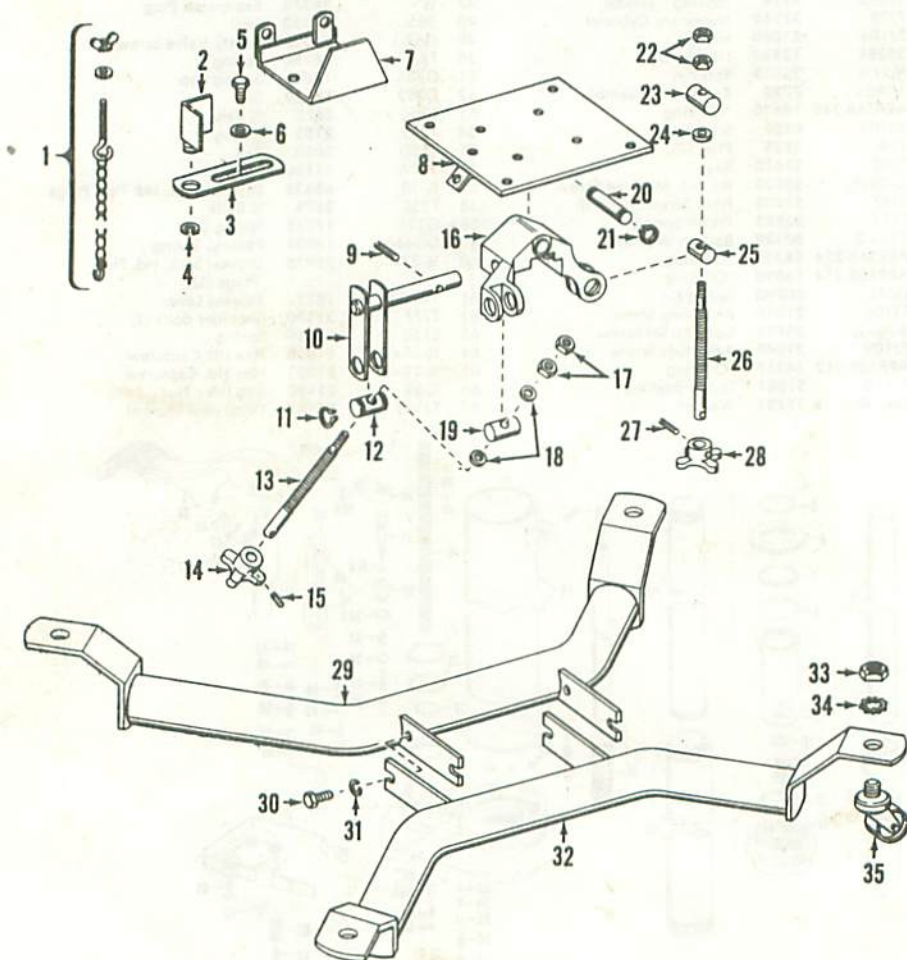
FRAME ASSEMBLY FOR MODEL "61"

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ITEM NO.	OLD PART NO.	NEW PART NO.	DESCRIPTION	ITEM NO.	OLD PART NO.	NEW PART NO.	DESCRIPTION
1	TM37	21450	Chain	19	TJ87	21180	Pin
2	19A9	7735	Corner Assembly	20	TM38	21460	Pin
3	TM17	21290	Plate	21	5100-68	21755	Snap Rings Truarc (2)
4	J190	18610	Snap Ring	22	3/8-16	26195	Reg. Hex Jam Nut
5	3/8-16x3/8	26240	Reg. Hex Hd. Capscrew	23	TJ87	21180	Pin
6	1/32x1/16	25245	Flat Washer	24	TM66	21635	Collar
7	5412	80143	Powerglide Adapter	25	TJ84	21165	Pin
8	19A56	7685	Saddle Assembly	26	TJ86	21175	Rod
9	3/16x1 1/2	26635	Roll Pin	27	3/16x1	25965	Roll Pin
9A	3/16x1 1/2	81022	Roll Pin	28	TM67	21650	Knob
10	19A58	7695	Tilt Pin Assembly	29	19A52	7665	R.H. Leg Assembly
11	5100-87	21760	Retaining Rings (2)	30	TJ100	21030	Capscrews (4)
12	TJ90	21205	Pin	31	3/8	26385	SAE Lockwasher (4)
13	TJ91	21025	Rod	32	19A51	7660	L.H. Leg Assembly
14	TM67	21650	Knob	33	3/4-16	26111	Reg. Hex Nut (4)
15	3/16x1	25965	Roll Pin	34	1232-00	2490	Shakeproof Washer (4)
16	TJ85	21170	Tilt Housing	35	TJ101	21020	Casters (4)
17	3/8-16	26195	Reg. Hex Jam Nut	36	-	80146	Nameplate (Not Shown)
18	TM66	21635	Collars	37	U #6	14945	Drive Screws (4) (for Nameplate)



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