Model 4070 Center Post Tire Changer

For servicing single piece automotive and most light truck tire/wheel assemblies.



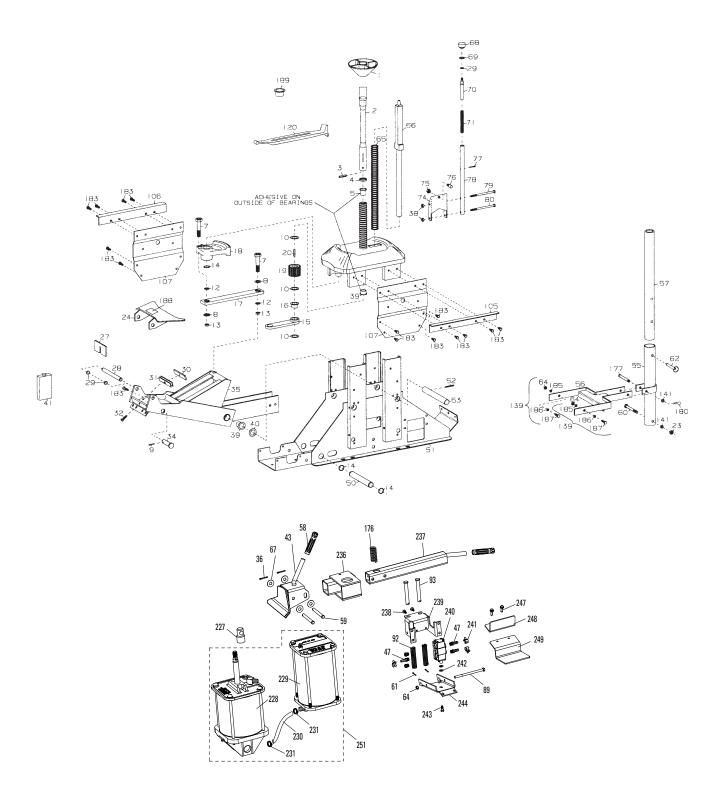
Parts Identification

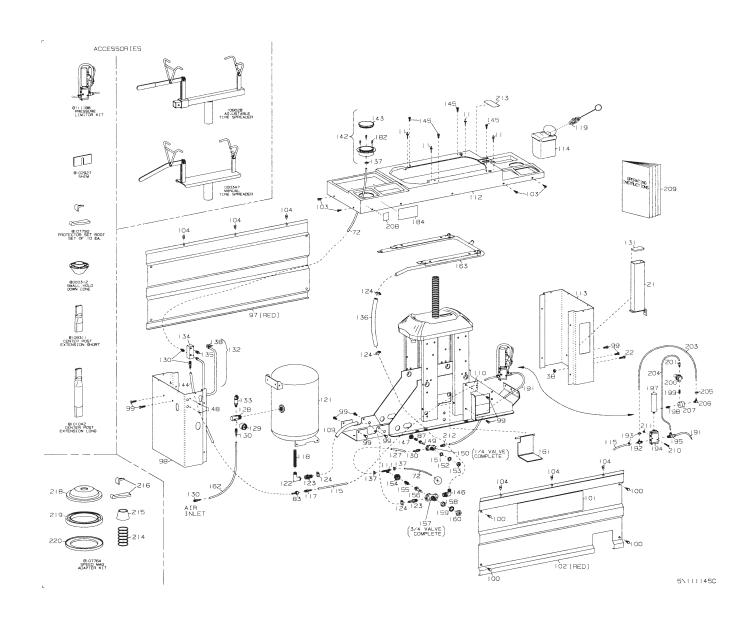
Manual Part No.: 85608977 04

Revision:

09/14

READ these instructions before placing unit in service. KEEP these and other materials delivered with the unit in a binder near the machine for ease of reference by supervisors and operators.





Item	Part No.	Description	ltem	Part No.	Description
1		Centering Cone	64		3/8" Lock Nut, Gr.5
2	8108289	Center Shaft	65	8108292	Positioning Pin Spring
3	8000304	3/8" x 1-3/4" Roll Pin	66	85608916	Positioning Pin
4	8108290	Center Post Washer	*	85608915	Shaft Stop
5	8000510	1-1/4" x 1-1/4" Nylon Bearing	*	8181674	Screws
7		3/4" Drive Gear Bolt, Gr.5	67	8108265	1/2" Machine Bushing
8	8100958	Self-Aligning Washer	68	8104155	Knob
9		3/16" x 1-1/4" Roll Pin	69	8103264	3/4" x 1-1/4" Machine Bushing
10	8101651	1-1/4" Machine Bushing (Ea.)	70	8104262	Push Handle
11		3/16" Dia. Rivet (Ea.)	71		Detent Spring
12		3/4" Machine Bushing (Ea.)	72		3/8" Hose 14" Long
13		3/4" Lock Nut N.C. (Ea.)	74		Support Bracket
14		1-1/4" Snap Ring (Ea.)	76	8104354	
15		Gear Tie Bar	77		5/32" x 1-1/4" Cotter Pin
16		Tie Bar Nylon Bearing	78		Arm Detent
17		Drive Gear Bar Assembly	79		3/8" x 6" Cap Screw, Gr.5
18		Drive Gear Complete	80		3/8" x 6" Cap Screw, Gr.5
19	8100951		83		Female Coupler Assembly
20		Shaft Key	87		Poppet String (Ea.)
21		Combo Tool Holder	89		3/8" x 6" Cap Screw, Gr.5
22		HHCS 3/8 - 16 x 1-1/4" Gr.5	92		Valve Spring
23		1/2" Lock Nut N.C., Gr.5	93		5/8" x 4-1/2" Clevis Pin (Ea.)
24		Large Lower Shoe	97		Side Panel Rear Complete
27		1/4" Shim	98		End Panel Left
28		Lower Shoe Shaft	99		3/8" Self-Tapping Screw, Gr.5
29		3/4" Snap Ring (Ea.)	100		3/8" Self-Tapping Screw, Gr.5
30		1/4" Shoe Adjusting Bar	101		Warning Decal
31		Shoe Adjusting Shim Kit	102		Side Panel Front Complete
32 34		3/8" x 1-1/4" Self Tapping Bolt, Gr.5 Upper Cylinder Clevis Pin	103	0100301	1/4" Hex Whiz Lock Self-Tapping Screw, Gr.5
35		Power Arm	104	910630 <i>4</i>	Skin Fastener Tinnerman
36		5/32" x 1-1/4" Cotter Pin	105		Angle Top Support
38		3/8" Lock Nut, Gr.5	106		Angle Top Support
39		Nylon Bearing (Ea.) w/Flange	107		Plate Chassis Stiffener
40		Machine Bushing (Ea.)	109		3/4" Hose 27-1/2"
41		Quart Special Hyd. Oil (Unit	110		Inflation Limiter Bracket
• •	0.01.11	Capacity – 5 Quarts)	111		Male Branch Tee
43	8108131	Shoe W/C	112		Plastic Top Cover
46		1/4" x 90° Street Elbow	113		End Panel Right
47		3/8" Hose Fitting	114		Bottle - Lube
49		3/8" Hose 23-1/2"	115		1/4" Hose 22"
50		Lower Cylinder Shaft	117		1/4" Push On Fitting
51		Chassis Weld Assembly	118		Strainer Screen
52	8101371	1/4" x 2-1/4" Roll Pin	119	8000491	Lube Applicator
53	8100970	Power Arm Axle	120	85609418	Combination Tool
55	8107655	Large Tube W/C	121	8107927	Surge Tank
56	85608928	Arm Weldment	122	8000572	3/4" x 90° Street Elbow
57	8107661	Tube Small	123	8104573	3/4" Straight Fitting (Ea.)
58	8100979	Top Bead Loosener Handle Grip	124		Hose Clamp (Ea.)
59	8111148	Clevis Pin	127	8099053	1/4" Hose 6"
60	8107663	HHCS 1/2" x 4-3/4", Gr.5	128	8183434	1/4" Tee with 1/8" Port
61		1/8" x 1 Cotter Pin (Ea.)	129		300 Lb. Gauge
62	8107665	Clevis Pin Detent	130	8000376	1/4" Hose Fitting

^{*} Not Shown

ltem	Part No.	Description	Item	Part No.	Description
131	8107768	Rubber Bumper Combo Tool Tube	201	8182035	St. Fitting 1/4" Tube x 1/8 NPT
132	8106871	Inflation Hose Assembly	202	8101428	1/4" Hose Clamp
133	8104968	Safety Valve 200 PSI	203	8103649	1/4" Hose 12"
134	8106270	Inflation Manifold	204	8182037	1/4" OD Nylon Tube 10"
135	8103737	Release Valve	205	8101428	1/4" Hose Clamp
136	8108589	3/4" Hose 31"	206	8110497	Fitting 90° Male Elbow
138	8410419	Air Chuck	207	8109468	Pressure Regulator
139	8107664	Bolt, Nut & Spacer Kit (Ea.)	208	8109769	Decal Tire Bead Valve
141	8010027	1/2" Washer	209	8111144	Operating Instructions
142	8107985	Air Guage Kit Flange Mounting	210	8120408	HHCS 1/4"-20 x 1-3/4", Gr. 5
143	8107517	Gauge Lens, Screw On	211	8143169	1/4"-20 Whiz Lock Nut, Gr. 5
144	8106289	1/4" Hose 22"	212	8181998	St. Fitting 3/8" Tube x 1/4 NPT
145	8106301	1/4" Hex Whiz Lock Self-Tapping	213	8108842	Detent Label
		Screw, Gr.5	214	8107637	Spring
146	85009959	3/4" Elbow	215	8107636	Positioning Cone
147	8105671	End Cap (1/4" Valve)	216	8107790	Protector Set Boot, Set of 10
148	8104596	10-32 Self-Tapping Screw	218	8107641	Adapter Plate
149	8104649	Poppet (1/4" Valve)	219	8107634	Cushion Thin
150	8104600	1/4" Valve Complete	220	8107734	Spacer Cushion
151	8104673	Bushing 1/4" Valve	223	8107662	HHCS 1/2" x 5"
152	8104613	5/8" External Lock Washer	227	85608906	Rod End Shaft
153	8104611	5/8" Jam Nut N.F.	228	85608715	8" Cylinder Assembly
154	8106350	End Cap 3/4" Valve	229	85608739	7" Cylinder Assembly
155	8104651	Spring 3/4" Valve	230	8108319	3/4 x 27-1/2" Hose
156	8104652	Poppet 3/4" Valve	231	8101346	1/2 x 1-1/4" Hose Clamp
157	8106298	3/4" Valve Ported 1/4-18 NPT	*	85606363	16mm Hose Clamp
158	8104674	Bushing 3/4" Valve	*	8099050	3/8" ID x 5/8" OD Black Hose, 54" L
159	8104612	3/4" Lock Washer	*	85608994	8" Cylinder Seal Kit
160	8104610	3/4" Jam Nut N.F.	*	85608995	7" Cylinder Seal Kit
161	85608918	Air Flate Pedal	236	85608922	Upper Bead Loosener Mount
162	8106281	1/4" Hose 20"	237	85608921	Upper Bead Loosener Tube
163	8109672	Air Tube Complete			Adjustment
176	8102840	. •	238	8143168	1/4-20 x 3/4 HHCS Whiz Lock
177		Clevis Pin			Screw
182		Plastic Fastener Gauge Mounting	239		Valve Bracket
183	8107413	Serrated Washer H.D. Bolt 3/8" x 1",	240		Pedal Valve
		Gr.5	241		16mm Hose Clamp
184		Inflation Warning Decal	242		Plain Washer
185	8101018		243		3/8 x 3/8 x 5/16-18 SHSS Screw
186		Spacer Bushing	244		Valve Plate
187		HHCS 3/8"-16 x 1-1/4", Gr.5 (Ea.)	*		3/8" Whiz Lock Nut
188		Lower Shoe Adjustment Decal	*		3/8-16 x 1 SHWH Screw, Zinc
189		Hold Down Tube	247		5/16-18 x 1 HWHTCS Screw, Typ 23
191		Nylon Tube 3/8" OD x 24"	248		Foot Pedal Guard
192		1/4" NPT Male Run Tee	249		Pedal Rotate
193		1/4" Hose Clamp	*		5/16-18 Hex Lock Nut
194	8109466		251	85609673	Cylinder Service Kit w/Oil
195		Spl. Tee, 1/4 NPT x 1/4 x 3/8			
197		Volumn Chamber	* Not S	Shown	
198		1/8" Close Nipple			
199		1/8" In-Line Filter			
200	8111083	Regulator			



Read and follow installation and maintenance instructions on this page and in the unit's Operation Instructions manual to help insure proper, safe operation and to obtain the best possible service life from the unit. Correct installation, regular inspections, and proper maintenance are essential to help prevent accidents and injures.

Installation Instructions

- **1.** As Hennessy can not be certain of the environment and conditions of the locations where the equipment will be installed, it is recommended that the safety manager review the shop floor conditions and local regulatory practices to determine if bolting of the equipment to the shop floor is necessary or advisable.
- **2.** The operating pressure range at the machine must be 100 to 175 PSI. DO NOT EXCEED 175 PSI at the machine. Sufficient air pressure is required for good performance. The 4070 is supplied with a 1/4" male pipe thread for easy connection. The connection is located at the lower left corner on the operators side. DO NOT HAVE AN UNATTACHED, UNRESTRICTED AIR LINE AVAILABLE AT OR NEAR THE MACHINE. ALL AIR/ SERVICE LINES AVAILABLE TO OPERATORS SHOULD BE THROUGH THE TIRE CHANGER.
- **3.** Read and follow additional instructions in the machines Operating Instructions manual.

General Maintenance

- **1.** The moving parts of the COATS 4070 are self-lubricating through the use of powdered metal and nylon bearings for extended trouble-free performance.
 - 2. Lower bead loosener shoe adjustment:
 - **A.** Mount a 15" or 16" steel wheel without a tire on the machine table top.
 - **B.** Cycle the machine and note the clearance between the flange of the wheel and the lower shoe (ref. 24). The proper shoe clearance is from 1/16" to 1/8" If clearance is not within these limits, the shoe must be adjusted.
 - **C.** To adjust the shoe, loosen 3/8" x 1-1/2" bolt (ref. 32) and add or remove shims (ref. 31) to bring shoe to the correct adjustment.
 - **D.** Tighten the bolt (ref. 32) and check adjustment again as described in steps A and B above. Bolt can be replaced with thumb screw 8110817 and washer 8000240 for quick shim change. Note 1/4" shim is recommended for 18" or custom wheels.
 - 3. Air gauge calibration.
 - **A.** Mount a large 15" tire/wheel assembly on themachine table top. Pressurize the tire to 32 PSI. Measure the pressure with a high quality stick-typetire gauge. Connect the machine"s air chuck to thetire valve.
 - **B.** If the gauge does not read 32 PSI, remove thescrew-on gauge lens and loosen the two screwslocated at the edge of the dial face. Do not loosenthe screws more than 3 turns.
 - **C.** Rotate the dial face until the 32 PSI graduation mark is aligned with the gauge pointer.
 - **D.** Tighten the dial face screws and clean and replace the screw-on lens.
 - **E.** If the gauge is inoperative or defective, replace it immediately. Order part number 8107985 from the COATS Company, phone (615) 641-7533. If your machine is equipped with the optional pressure limiter, the function of the limiter should be checked weekly.

8" Cylinder Maintenance (85608715)

Proper cylinder maintenance is necessary for safety and performance. The design of the hydraulically dampened 8" air cylinder (85608715) facilitates smooth, controlled bead loosening, mounting, and demounting. It is important that the cylinder be filled to the proper level at all times. If the oil becomes low, the machine will surge at the beginning of the stroke. If fast or jerky motion is noted, cease operation; then remove cylinder (85608715) and slave cylinder (85608739). Remove plug from slave cylinder and fill with oil until there is no air in either cylinder or connecting hose. A high quality hydraulic oil must be used (ref. 41). This can be ordered from COATS®, (615) 641-7533.



Read and follow all safety information on the machine. Always work carefully and safely.