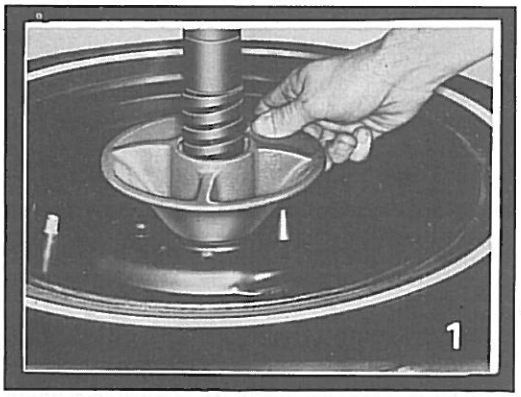
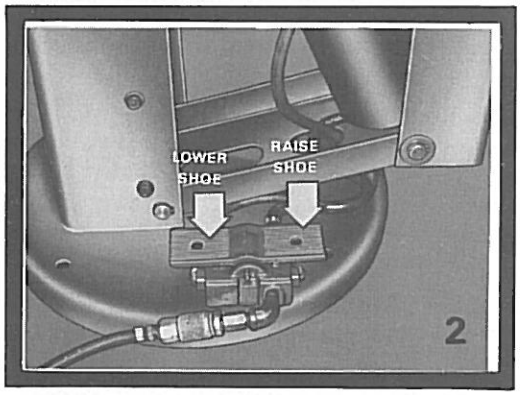
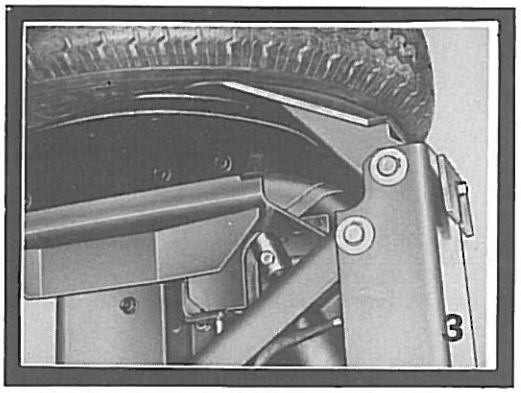
COATS® 510

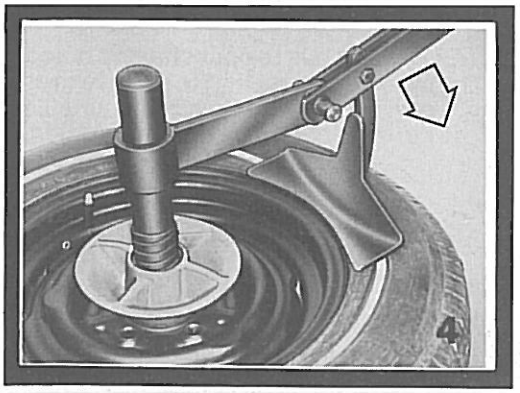
OPERATING INSTRUCTIONS

READ INSTRUCTIONS THOROUGHLY BEFORE USING MACHINE









BEAD LOOSENING OPERATION
LOOSEN BOTTOM BEAD FIRST

Step 1.

Remove the core from the tire valve and allow the pressurized air to escape.

Step 2.

Place the tire and wheel assembly on the contoured table top with the narrow side of bead seat up. Be sure the positioning pin is through one of the lug holes of the wheel. Thread the hold down cone clockwise on the center post. See Fig. 1.

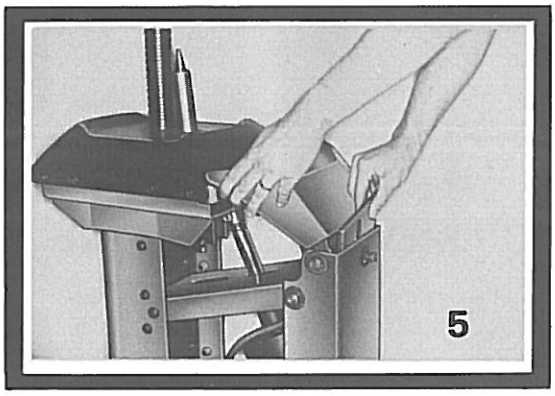
Step 3.

A foot pedal valve is provided to operate the lower bead loosener. Depress the right pedal to raise the bottom bead loosener and loosen the tire bead from the rim. Depress the left pedal to lower the bead loosener. See Fig. 2 and 3.

LOOSENING TOP BEAD

Step 4.

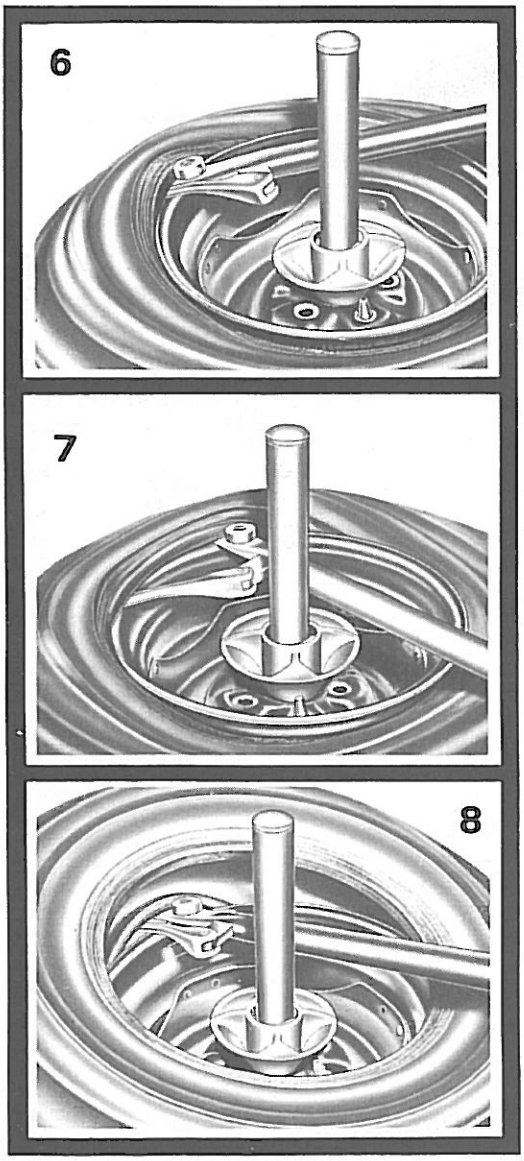
Place the bead loosener assembly tube end over the center post. Exert pressure downward on the handle, then let up on handle to allow loosener arm to lower on center post to obtain greater leverage. After initial attempt on stubborn tires, move to left or right and repeat until bead is loosened. See Fig. 4.



CUSTOM WHEELS

The 1/4" shim is used on some aluminum and magnesium wheels with a wide flange to prevent the bottom bead loosener from catching and damaging the rim. To install, raise the bottom bead loosener and place the 1/4" shim between the shoe and the support channel. See Fig. 5.

TIRE REMOVING OPERATION



1. Always apply lubricant to both top and bottom beads.

2. Push top bead down into drop center of the rim and reach across wheel and insert take-off end of the combination tool under top bead.

3. Lower handle as shown in Fig. 6. Take-off end of combination tool operates as follows:
   a. Small horizontal roller picks up the bead as tool is pulled in clockwise direction.
   b. The roller disk acts as a stop, limiting the extension of the Take-Off end inside the casing, allowing no chance to pinch the tube.

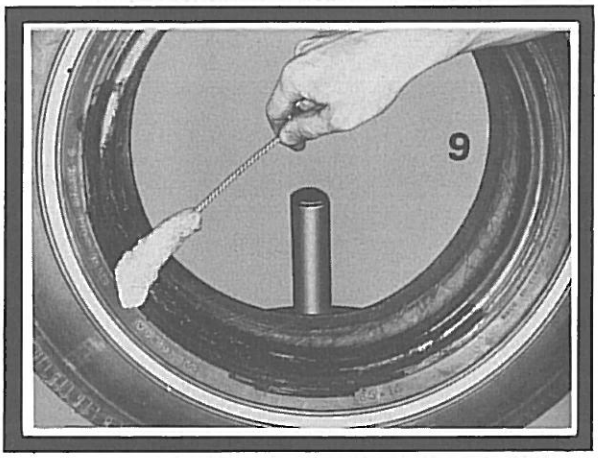
4. Move hands to opposite end of tool and pull tool in clockwise direction until the entire upper bead is above rim. The trailing arm prevents the tire from slipping back over the rim during the demounting operation. (See Fig. 7).
   Note: If tire contains a tube, take out the tube before removing the bottom bead.

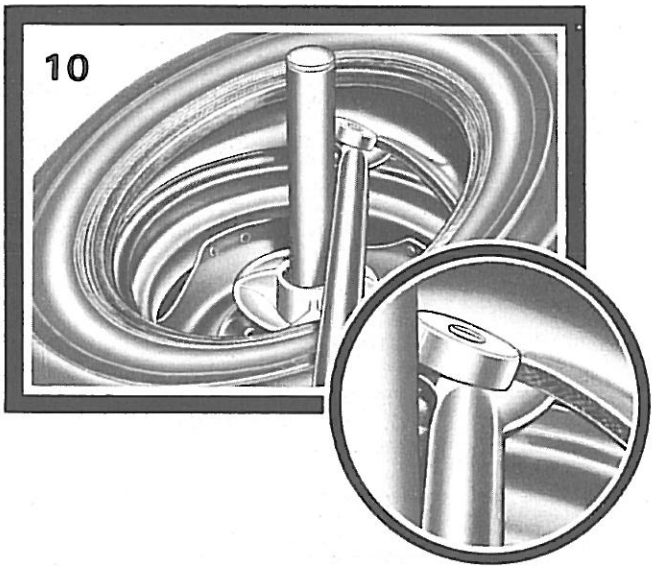
5. With top bead above the rim,lift and push bottom bead into drop center of rim. Reach across wheel and insert Take-Off end of Tool under bottom bead.

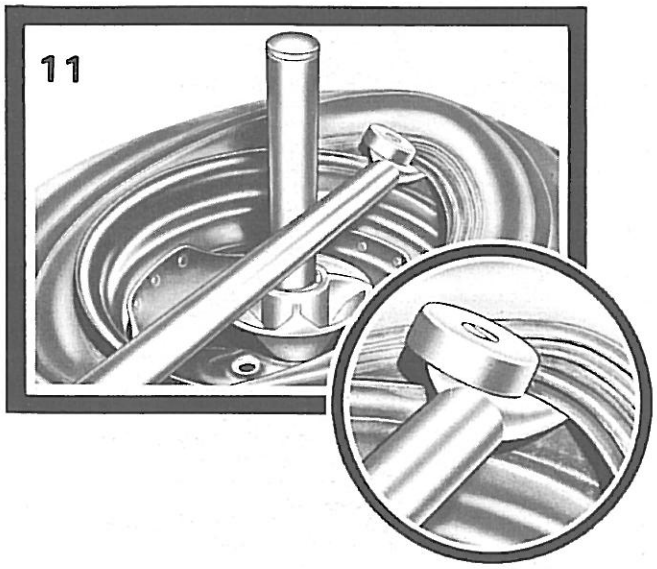
6. Lower handle extension as shown in Fig. 8.

7. Move hands to opposite end of tool and pull tool in clockwise direction to remove tire. The trailing arm prevents the tire from slipping back over the rim during the demounting operation.

TIRE MOUNTING OPERATION







BOTTOM BEAD

1. Always use a rubber lubrication on both top and bottom beads. See Fig. 9.
   Note: If tube is used, insert tube in casing, apply air to round out tube. Apply rubber lubricant to exposed tube surface.
2. Place tire loosely on rim,but do not force bottom bead into rim well before placing hook end of combination tool.
3. Place the hook end of the combination tool between the lower bead and top of the rim with the hook over the wheel rim flange as shown in Fig. 10. Move hands to opposite end of tool and pull tool in clockwise direction. If tire rotates with tool, hold tire with left hand while pulling on tool.

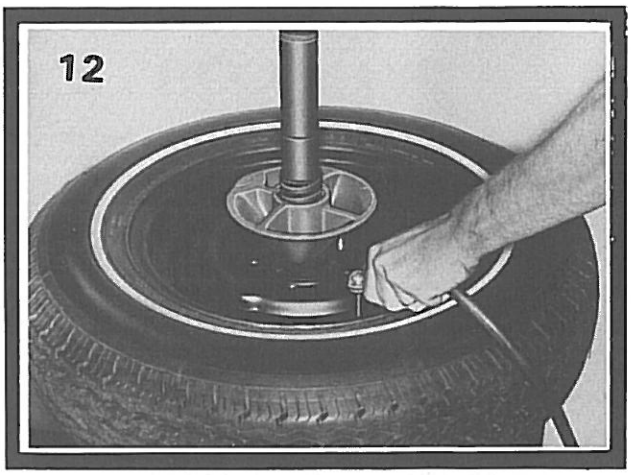
TOP BEAD

The top bead is mounted in a similar manner to the bottom bead as described above. See Fig. 11.

INFLATION

Loosen hold down cone and inflate tire. See Fig. 12.

KEEP YOUR ENTIRE BODY BACK AWAY FROM THE TIRE WHILE INFLATING.



Play It Safe

TIRE FAILURE UNDER PRESSURE CAN BE HAZARDOUS. INSPECT TIRE CAREFULLY FOR WEAR OR DEFECTS BEFORE SEATING OR INFLATING. NEVER USE AIR PRESSURE BEYOND THE TIRE INDUSTRY RECOMMENDATION OF 40 P.S.I. ALWAYS LUBRICATE WITH APPROVED LUBRICANT AND NEVER DAMAGE TIRE BEADS. KEEP HANDS AND ENTIRE BODY BACK FROM INFLATING OR INFLATED TIRE.

SPECIAL SAFETY INSTRUCTIONS

1. Never stand with any part of body over tire during inflation process.
2. Before starting, release all air from tire.
3. Place rim with NARROWEST bead seat or flange up.
4. Position tire so that the valve is directly in front of operator, and so that bead breakers will not damage the valve.
5. Hand tighten hold-down cone, or adapter, before breaking beads, mounting or demounting.
6. Use approved lubricant on ALL beads before seating beads, mounting or demounting.
7. Loosen hold down cone one full turn before inflation.
8. To seat beads use a SMALL amount of air INTERMITTENTLY NEVER exceed tire industry recommendation of 40 P.S.I.
9. During inflation, observe pressure frequently and avoid distraction to prevent overinflation.

INSTALLATION INSTRUCTIONS

1. Stand must be bolted solidly to floor for efficient operation. This may be done by several methods. Two are suggested here.
   A. Mark and drill two 1" holes in concrete floor 3½" deep. Set two ½ x 5" mach. bolts, heads down, in holes. Melt powdered sulphur and pour around bolts. Liquid sulphur will solidify in about five minutes. Place Stand in position and mark remaining two holes and follow above procedure.
   B. Use ½" lag screws 4" long and suitable anchors.
2. This machine should be used with an air supply which does not exceed 175 p.s.i. The recommended operating pressure is 150 p.s.i.
3. Keep your tire machine and tools clean and oiled. They work easier and last longer.
4. The addition of a filter and lubricator to the air supply line will prolong the life of the air cylinder seals.

MANUFACTURED BY

THE COATS COMPANY, INC.

La Vergne, Tennessee 37086

106800

Hennessy Industries Inc. **The Coats Company Inc.**
La Vergne, Tennessee 37086

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MIDWEST OFFICE: Jack P. Hennessy Co., Inc., 520 Lively Blvd., Elk Grove, Illinois, P. O. Box 66389
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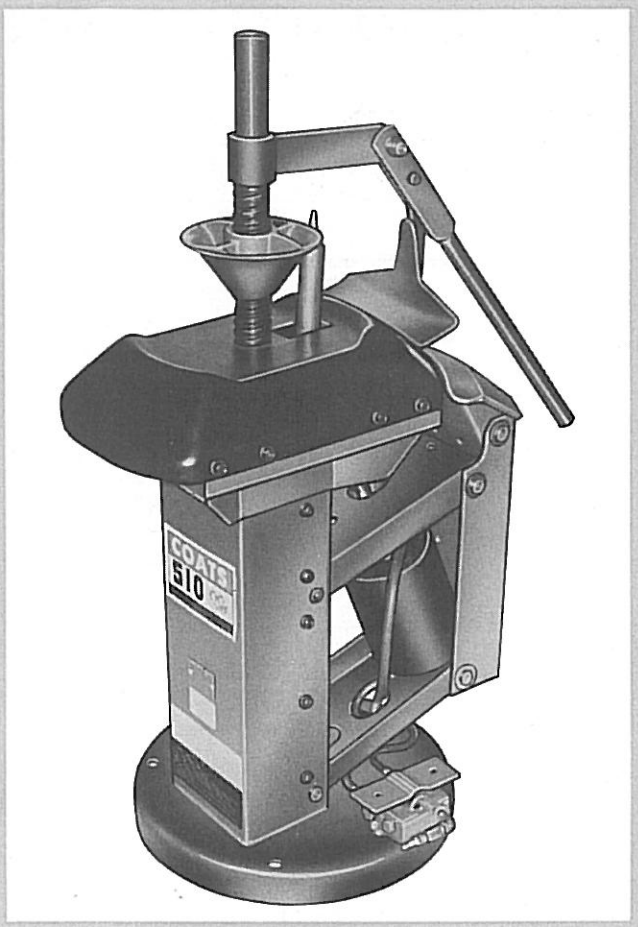

COATS®

510

This Parts List is for
units with
Serial No. 00001 and up

Manufactured by The Coats Co., Inc.
1601 J. P. Hennessy Drive
La Vergne, Tenn. 37086
PHONE: 615-793-7533
TELEX: 810-380-4372

ORDER PARTS FROM YOUR DISTRIBUTOR OR JOBBER

REF NO.	PART NO.	DESCRIPTION
1	000433	Hold Down Cone
2	106602	Table Top Weldment
3	101343	Positioning Pin
4	102928	Cotter Pin
5	100952	Positioning Pin Spring
6	010027	Washer
7	106620	Pivot Pin (Short)
8	101181	3/16 x 1 Roll Pin
9	106659	Hair Pin
10	106300	3/8" Self Tapping Bolt (Ea.)
11	105684	Warning Decal
12	106601	Chassis Weldment
13	101001	Snap Ring (Ea.)
14	106619	Center Post Bolt 3/4 x 1 3/4
15	100994	Washer
16	106618	Nest Channel
17	000516	3/8" Lock Nut (Ea.)
18	104945	1/4 x 3/4 Self Tapping Screw
19	101428	Hose Clamp
20	000378	Straight Fitting
21	106621	Pivot Pin (Long)
22	105615	Small Muffler
23	106815	Foot Pedal Kit
24	106816	Poppet Kit (Ea.)
25	106656	4-Way Foot Valve Comp.
26	106661	1/4" Hose (Long)
27	106660	1/4" Hose (Short)
28	105635	90° Short Fitting
29	000376	1/4 x 90° Fitting
30	106642	Parallel Linkage (Ea.)
31	106644	7/16 x 1 3/4 Cylinder Bolt
32	106643	Cylinder Shaft Extension
33	000554	7/16 Lock Nut N.F.
34	101253	3/4 Machine Bushing (Ea.)
35	106641	Lower Shoe Support Channel
36	106638	Lower Shoe Weldment
37	102927	1/4" Shim
38	106645	5" Cylinder Assembly
39	000465	Cap O-Ring
40	106652	5" Cylinder Bottom Cap Weldment
41	000357	O-Ring
42	100957	Piston Nut
43	000355	Piston
44	000356	Piston Seal
45	106779	Piston Rod
46	106646	Barrel Weldment
47	106835	Rod Seal
48	106657	Wiper Seal
49	106634	Locking Bar
50	106631	Shoe Weldment
51	106637	Pivot Shaft
52	103814	3/8 x 1 1/2 Cap Screw
53	102937	3/8" Lock Nut
54	106628	Handle Weldment
55	106627	Manual Bead Loosener Assembly
56	000469	Combination Tool Comp.
57	000330	Combination Tool Mounting Bead Roller
58	000331	Combination Tool Mounting Bead Roller Screw
59	000432	3/8 x 1 Roll Pin
60	000431	Finger
61	000327	Combination Tool Demounting Bead Roller
62	000328	Combination Tool Demounting Bead Roller Screw
63	000325	Combination Tool Under Bead Roller Shafts (2)
64	000326	Combination Tool Under Bead Roller Shaft Spring
65	000324	Combination Tool Under Bead Roller
66	105131	3/8 x 1 1/4 Self Tapping Screw
67	106840	Spacer Shim Holder
68	100653	3/8-16 Wing Nut