

COATS® 510



OPERATING INSTRUCTIONS

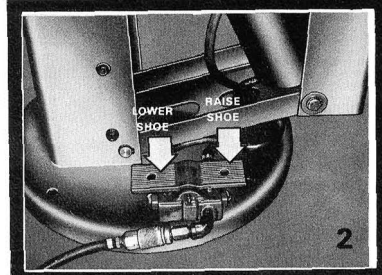
READ INSTRUCTIONS THOROUGHLY BEFORE USING MACHINE



BEAD LOOSENING OPERATION LOOSEN BOTTOM BEAD FIRST

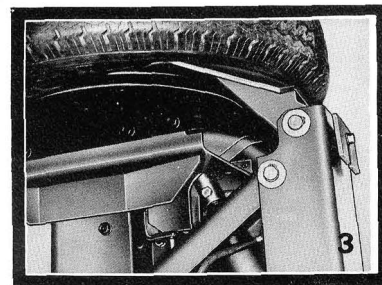
Step 1.

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



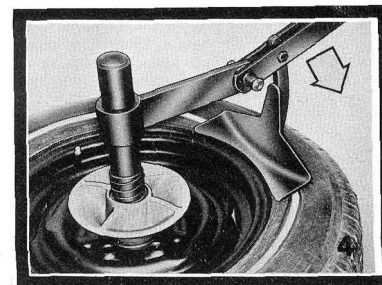
Step 2.

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.

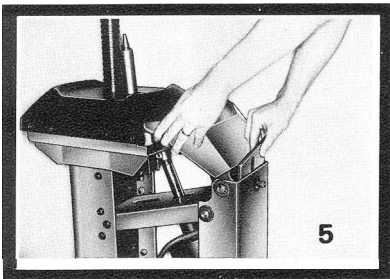
A foot pedal valve is provided to operate the lower bead loosener. Depress the right pedal to raise the bottom bead loosener and loosen the tire bead from the rim. Depress the left pedal to lower the bead loosener. See Fig. 2 and 3.



LOOSENING TOP BEAD

Step 4.

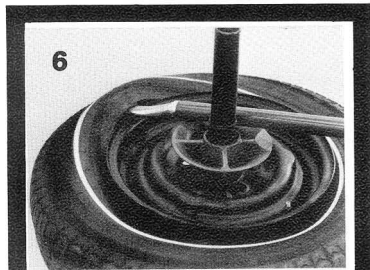
Place the bead loosener assembly tube end over the center post. Exert pressure downward on the handle, then let up on handle to allow loosener arm to lower on center post to obtain greater leverage. After initial attempt on stubborn tires, move to left or right and repeat until bead is loosened. See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



CUSTOM WHEELS

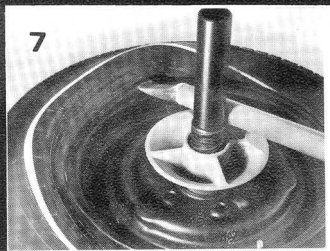
The 1/4" shim is used on some aluminum and magnesium wheels with a wide flange to prevent the bottom bead loosener from catching and damaging the rim. To install, raise the bottom bead loosener and place the 1/4" shim between the shoe and the support channel. See Fig. 5.

TIRE REMOVING OPERATION



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

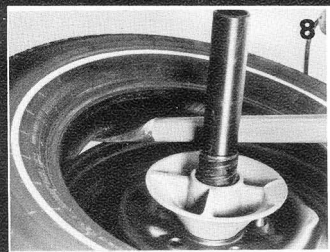
2. Push top bead down into drop center of the rim and reach across wheel and insert take-off end of the combination tool under top bead. Lower handle as shown in Fig. 6.



3. Move hands to opposite end of tool and pull tool in clockwise direction until the entire upper bead is above rim. (See fig. 7).

Note: If tire contains a tube, take out the tube before removing the bottom bead.

4. 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.



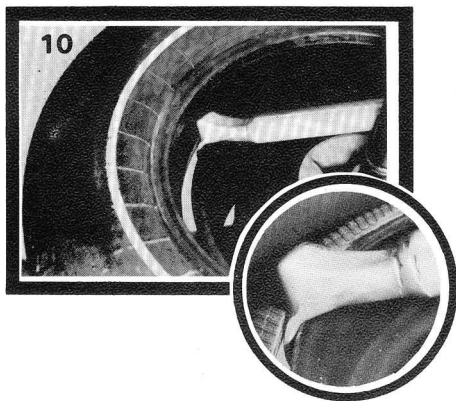
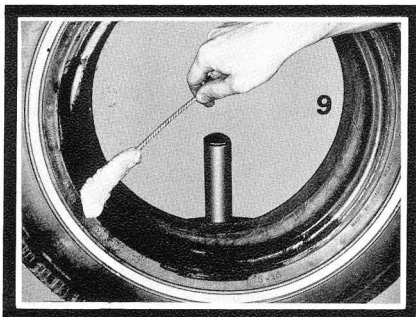
5. Lower handle extension as shown in Fig. 8

6. Move hands to opposite end of tool and pull tool in clockwise direction to remove tire.

TIRE MOUNTING OPERATION

BOTTOM BEAD

1. Always use a rubber lubricant 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

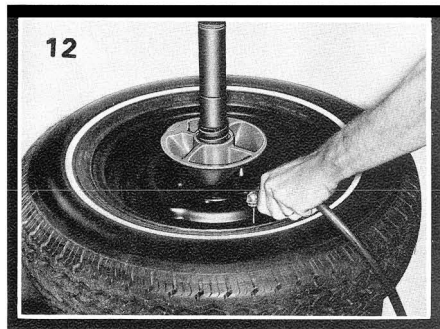
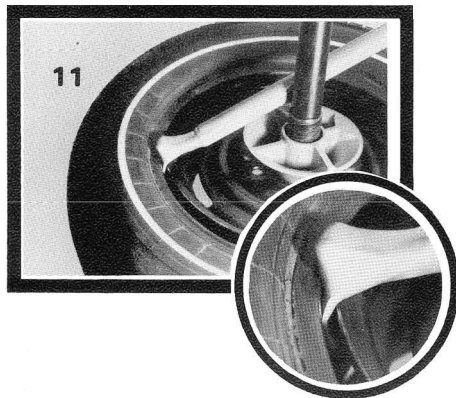
The top bead is mounted in a similar manner to the bottom bead as described above. See Fig. 11.

INFLATION

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

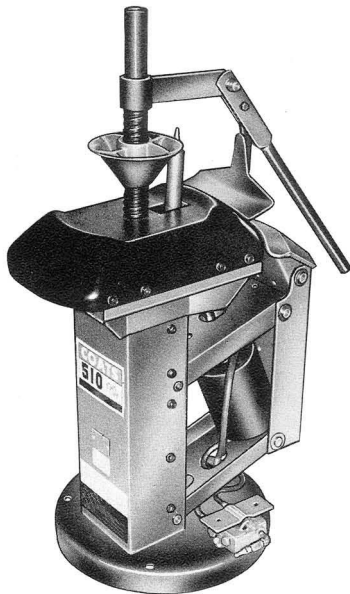
! DANGER

Never exceed 40 psi when seating beads. Excessive pressure can cause tires to explode causing serious injury and death.



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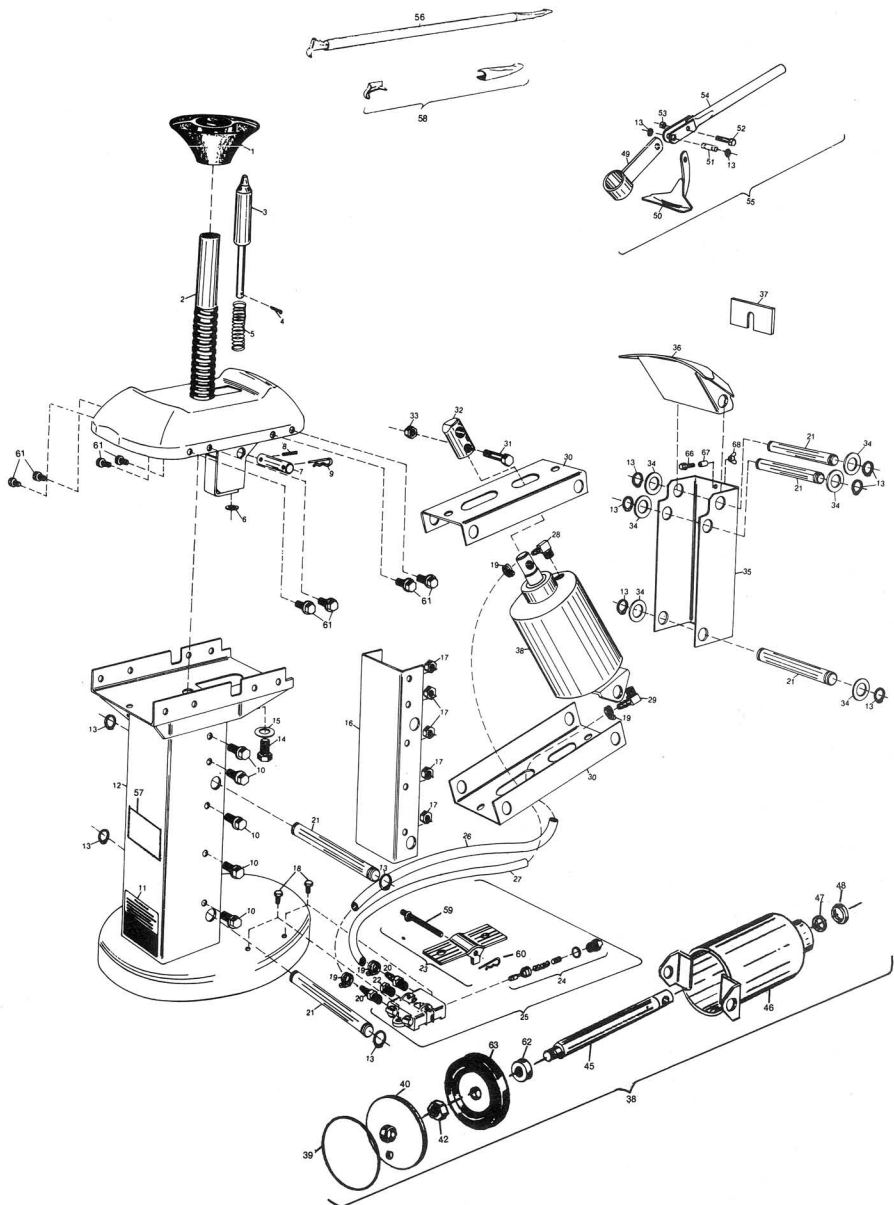
510



This Parts List is for
units with
Serial No. 00939 and up

ORDER PARTS FROM YOUR DISTRIBUTOR OR JOBBER

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	000433	Hold Down Cone	33	000554	7116" Lock Nut NF.
2	106602	Table Top Weldment	34	101253	3/4" Machine Bushing (ea.)
3	101343	Positioning Pin	35	106641	Lower Shoe Support Channel
4	102928	Cotter Pin	36	106638	Lower Shoe Weldment
5	100952	Positioning Pin Spring	37	102927	1/4" Shim
6	010027	Washer	38	106645	5" Cylinder Assembly
7	106620	Pivot Pin (short)	39	000465	Cap O-ring
8	101181	3/16" x 1" Roll Pin	40	106652	5" Cylinder Bottom Cap Weldment
9	107139	Hitch Pin	42	120463	3/4- 10 Jam Nut
10	106300	3/8" Self Tapping Bolt (ea.)	45	106779	Piston Rod
11	108017	Warning Decal	46	106646	Barrel Weldment
12	106601	Chassis Weldment	47	106835	Rod Seal
13	101001	Snap Ring (ea.)	48	106657	Wiper Seal
14	106619	Center Post Bolt 3/4" x 1 1/2"	49	106634	Locking Bar
15	100994	Washer	50	106631	Shoe Weldment
16	106618	Nest Channel	51	107406	Pivot Shaft
17	106303	3 Lock Nut (ea.)	52	103814	3/8" x 1 1/4" Cap Screw
18	107728	Self Tapping Screw. (ea.)	53	102937	3/8" Lock Nut
19	101428	Hose Clamp (ea.)	54	106628	Handle Weldment
20	000378	Straight Fitting (ea.)	55	106627	Manual Bead Loosener Assembly
21	106621	Pivot Pin (long)	56	107156	Combo Tool
22	105615	Small Muffler	57	108059	Inflation Warning Decal
23	106815	Foot Pedal Kit	58	107423	Combo Tool Protector Set (6 mount & demount)
24	106816	Poppet Kit (ea.)	59	106818	Treadle Clevis Pin
25	106656	4-Way Foot Valve Comp.	60	106819	Treadle Cotter Pin
26	106661	1/4" x 90" Hose (long)	61	106953	3/8- 12 Hex Head Bolt (black)
27	106660	1/4" Hose (short)	62	107511	Spacer
28	105635	90° Short Fitting	63	107576	Piston Cup
29	000376	1/2" x 90" Fitting	66	105131	3/8" x 1 1/4" Self Tapping Screw
30	106642	Parallel Linkage (ea.)	67	107738	Spacer Bushing
31	106644	7/16" x 1 3/4" Cylinder Bolt	68	107008	Wing Nut
32	106643	Cylinder Shaft Extension			





NEVER EXCEED 40 PSI WHEN SEATING BEADS. EXCESSIVE PRESSURE CAN CAUSE TIRES TO EXPLODE, CAUSING SERIOUS INJURY AND DEATH. ALWAYS LUBRICATE WITH APPROVED LUBRICANT AND NEVER DAMAGE TIRE BEADS. KEEP HANDS AND ENTIRE BODY BACK FROM INFLATING 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 PSI.
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 **3 1/2"** deep. Set two 1/2 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 1/2" lag screws 4" long and suitable anchors.
2. This machine should be used with an air supply which does not exceed 175 psi. The recommended operating pressure is 150 psi.
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.

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