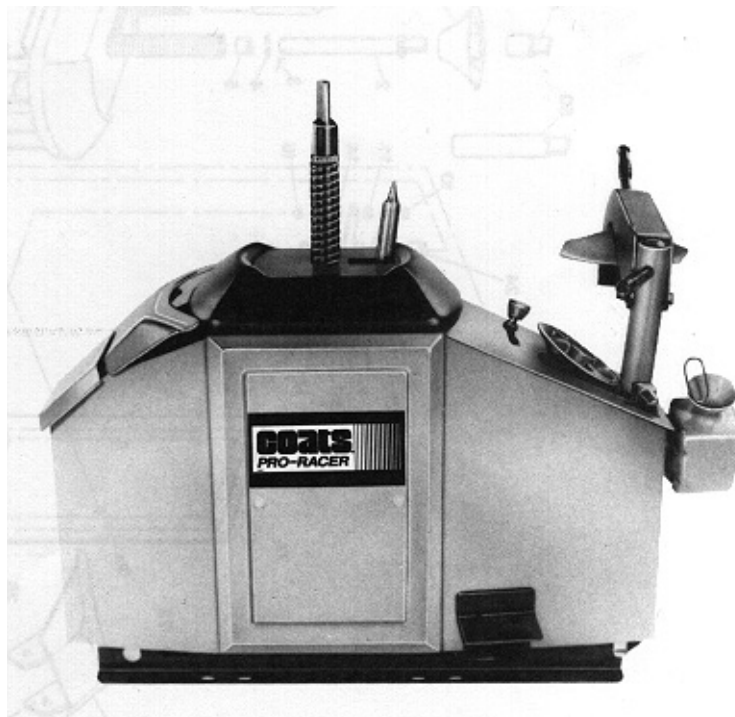


COATS®

10-10

Pro-Racer Tire Changer

*For servicing single piece
automotive tire/wheel assemblies*



Parts Identification

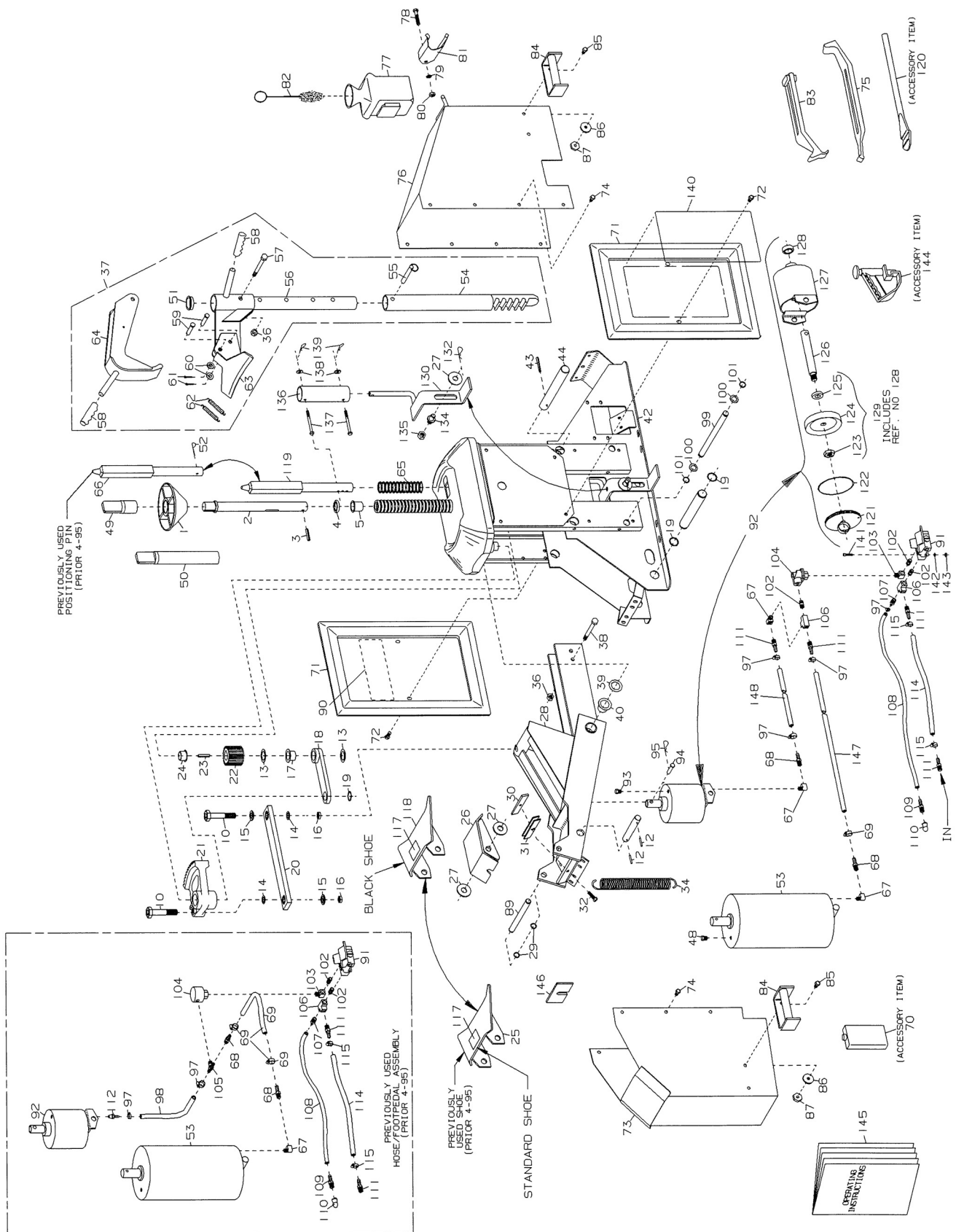
READ these instructions before placing unit in service KEEP these and other materials delivered with the unit in a binder near the machine for ease of reference by supervisors and operators.

HENNESSY INDUSTRIES, INC.

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HENNESSY INDUSTRIES INC. Manufacturer of AMMCO®, COATS® and BADA® Automotive Service Equipment and Tools.

Manual Part No.: 8108935 06
Revision: 11/08

| REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION |
|---------|----------|---------------------------------------|---------|----------|------------------------------------|---------|----------|---------------------------------|
| 1 | 000433 | Hold Down Cone | 54 | 104026 | Extension Tube | 101 | 101001 | 3/4" Snap Ring |
| 2 | 107526 | Racing Center Shaft | 55 | 104267 | Clevis Pin | 102 | 000580 | 1/4" Close Nipple |
| 3 | 000304 | 3/8" X 1-3/4" Roll Pin | 56 | 104024 | Adjustable Upper Bead Loosener Arm | 103 | 000372 | Brass Street Elbow |
| 4 | 104253 | Machine Bushing | 57 | 102376 | 1/2" X 3-1/2" Cap Screw NC | 104 | 181191 | Quick Damp Valve |
| 5 | 000510 | 1-1/4" x 1-1/4" Nylon Bearing | 58 | 100979 | Top Bead Breaker Handle-Grip (ea.) | 105 | 107234 | 1/4"-3/8" Brass Tee |
| 10 | 101296 | 3/4"-Drive Gear Bolt (ea.) | 59 | 102276 | Clevis Pin | 106 | 000643 | 1/4" Tee |
| 11 | 100958 | Self-Aligning Washer | 60 | 010027 | 1/2" Washer (ea.) | 107 | 000378 | 1/4" Street Fitting |
| 12 | 101181 | 3/16" X 1" Roll Pin | 61 | 102278 | 1/8" x 1" Cotter Pin | 108 | 109582 | 1/4" Hose x 66" Long |
| 13 | 101156 | 1-1/4" Machine Bushing (ea.) | 62 | 101106 | Top Bead Breaker Shoe Spring | 109 | 102390 | 1/4" Push-on Fitting |
| 14 | 100960 | Self-Aligning Bushing (ea.) | 63 | 100988 | Top Bead Breaker Shoe Complete | 110 | 101394 | Air Chuck, Closed |
| 15 | 101253 | 3/4" Machine Bushing | 64 | 101163 | Top Bead Breaker Nose | 111 | 101898 | 3/8" Hose Fitting |
| 16 | 100957 | 3/4" Lock Nut (ea.) | 65 | 103671 | Positioning Pin Spring | 112 | 000378 | 1/4" Straight Fitting |
| 17 | 101352 | Tie Bar Nylon Bearing | 66 | 103670 | Positioning Pin | 114 | 107240 | 3/8" x 23-1/2" Hose |
| 18 | 101298 | Gear Tie Bar | 67 | 000372 | 1/4 x 90" Street Elbow | 115 | 101427 | 3/8" Hose Clamp |
| 19 | 100964 | 1-1/4" Snap Ring (ea.) | 68 | 101898 | 3/8" Hose Fitting (ea.) | 116 | 000729 | Foot Valve |
| 20 | 101089 | Drive Gear Bar Assembly | 69 | 101404 | Hose & Clamp Assembly | 117 | 108109 | Lower Shoe Adjustment Decal |
| 21 | 104247 | Drive Gear Complete | 70 | 101411 | 1 Qt. Special Hydr. Oil (ea.) | 118 | 1010422 | Large Lower Shoe (BLACK) |
| 22 | 100951 | Pinion | 71 | 108940 | Center Panel R.H. | 119 | 111630 | Positioning Pin |
| 23 | 101091 | Shaft Key | 72 | 102459 | 3/8" Self-Tapping Bolt (ea.) | 120 | 109344 | Tire Tool |
| 24 | 101369 | Lower Shaft Bearing | 73 | 107546 | Rear Panel | 121 | 066552 | 5" Cylinder Bottom Cap Weldment |
| 25 | 101042 | Large Lower Shoe | 74 | 101110 | 3/8" Self-Tapping Screw (ea.) | 122 | 000465 | Cap O-Ring |
| 26 | 101251 | Small Lower Shoe | 75 | 107530 | Demount Tool Racing Machine | 123 | 107510 | 3/4" Jam Nut, Gr.5 |
| 27 | 100994 | Shoe Spacer | 76 | 107544 | Front Panel | 124 | 107576 | Piston Cup |
| 28 | 107195 | Power Arm | 77 | 106259 | Lube Bottle | 125 | 107511 | Spacer |
| 29 | 101001 | 3/4" Snap Ring (ea.) | 78 | 000598 | 7/16 x 3/4" Cap Screw NC | 126 | 107205 | Piston Rod |
| 30 | 105133 | 1/4" Shoe Adjusting Bar | 79 | 000534 | 7/16" LOCK WASHER | 127 | 107200 | Cylinder Barrel Complete |
| 31 | 101506 | Shoe Adjusting Shim Kit | 80 | 000755 | 7/16"-14 SQUARE NUT | 128 | 066557 | Wiper Seal |
| 32 | 105131 | 3/8" X 1-1/4" Self Tapping Bolt, Gr.5 | 81 | 000490 | Lube Bracket | 129 | 107587 | 5" Piston Replacement Kit |
| 33 | 105668 | Center Panel L.H. | 82 | 000491 | Lube Applicator | 130 | 111629 | Pedal Assembly Weldment |
| 34 | 100999 | Return Spring | 83 | 107529 | Mounting End | 132 | 000799 | Cotter Hairpin |
| 35 | 101002 | Upper Cylinder Clevis Pin | 84 | 107549 | Handle | 134 | 111626 | Stud |
| 36 | 101039 | 1/2" Lock Nut NC (ea.) | 85 | 000524 | 3/8" x 1" Hex Head Cap Screw | 135 | 120055 | 5/8" Nut |
| 37 | 104025 | Bead Loosener Assy. Comp. | 86 | 182027 | Washer | 136 | 111608 | Joint Tube |
| 38 | 101040 | 1/2" x 3-3/4" Cap Screw NC | 87 | 000516 | 3/8" Locknut | 137 | 111607 | 5/16-18 Machined Bolt |
| 39 | 101651 | Machine Bushing (ea.) | 89 | 101003 | Lower Shoe Shaft | 138 | 107635 | Plain Washer |
| 40 | 101351 | Nylon Bearing (Ea.) | 90 | 108937 | Decal 10-10 Pro Racer | 139 | 111609 | Cotter Hairpin |
| 41 | 101000 | Lower Cylinder Shaft | 91 | 000729 | Valve | 140 | 111642 | Warning Decal |
| 42 | 108929 | Chassis | 92 | 107199 | 5" Cylinder Power Boost | 141 | 107551 | SHCS 1/4-20 x 1" |
| 43 | 101371 | 1/4" x 1-3/4" Roll Pin (ea.) | 93 | 105678 | Plastic Breather Plug | 142 | 301142 | Washer 1/4" Split |
| 44 | 100970 | Power Arm Axle | 94 | 107238 | 7/16 x 2" Clevis Pin | 143 | 107440 | Nut 1/4-20 Hex |
| 48 | 105678 | Plastic Breather Plug | 95 | 107419 | Hitch Pin | 144 | 435685 | Drop Center Tool |
| 49 | 104246 | Center Post Adaptor | 96 | 000378 | 1/4" Street Fitting | 145 | 108232 | Operating Instructions |
| 50 | 104245 | Center Post Extension | 97 | 101428 | Hose Clamp | 146 | 102927 | Shim 1/4" |
| 51 | 105824 | Cap Plug | 98 | 106281 | 1/4 x 20" Long Hose | 147 | 183382 | 3/8" x 19" HOSE |
| 52 | 107139 | Hitch Pin | 99 | 107207 | Lower Pivot Axle | 148 | 183383 | 3/8" x 12" HOSE |
| 53 | 107242 | 7" Cylinder | 100 | 108280 | 3/4" Machine Bushing | | | |



INSTALLATION INSTRUCTIONS AND LUBE DISPENSER INSTALLATION

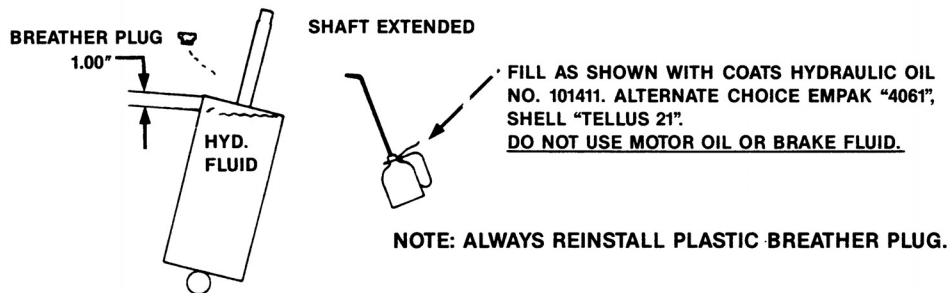
1. The Coats 10-10 Pro-Racer can be bolted to the floor with sufficient anchors through the holes on each side of the base. Two diagonal anchors are sufficient.
2. The best operating air pressure is 150 psi at the machine. Do not exceed 175 psi at the machine. The 10-10 is furnished with a ¼" NPT male fitting for easy connection. A ¼" I.D. hose, or pipe, for connection to the machine is satisfactory. Sufficient air pressure will assure good performance.
3. For installing the lube dispenser, refer to the parts list on page 3. Remove the upper bead loosener assembly from the machine. Insert the cap screw, ref. no. 78, through the mounting hole of the lube bracket, ref. no. 81. Insert the cap screw through the hole of the front panel, ref. no. 76. Reach through the oblong hole on the front panel, and place ⅞" lock washer, ref. no. 79, on cap screw. Thread the ⅞" square nut, ref. no. 80, on cap screw hand tight. Place the lube bottle, ref. no. 77, on the lube bracket, ref. no. 81. Pivot the lube bottle and bracket to an approximate angle as shown on photo on the cover. Using a ¾" wrench on the nut and ⅝" wrench on the bolt, secure the nut. Replace the upper bead loosener assembly.

MAINTENANCE

1. The moving parts of the Coats 10-10 Pro-Racer are self-lubricating through the use of powdered metal or nylon bearings for a lifetime of performance.
2. Lower bead breaker shoe adjustment:
 - A. Remove side panels, ref. nos. 71 and 33.
 - B. Remove end panels adjacent shoe, ref. no. 73.
 - C. Loosen ⅝ × 1¼ self-tapping bolt, ref. no. 32.
 - D. Add or remove shims to bring shoe into adjustment. Small lower shoe, ref. no. 26, should clear a 13", 14" or 15" rim by ⅛" to ⅜".
 - E. Replace end and side panels.

CYLINDER MAINTENANCE

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 its stroke. A special hydraulic oil must be used. To fill, remove the (2) center panels by removing (4) ⅝" self-tapping bolts. Remove the rear panel by removing (8) ⅝" self-tapping screws. Disconnect (4) return springs. Depress foot pedal and run cylinder to the top of its stroke. Remove plastic breather plug. Fill cylinder to within 1" from the top of access hole. REPLACE PLASTIC BREATHER PLUG. Push downward on power arm to retract cylinder. Replace springs, rear panel, and center panels.



TROUBLESHOOTING

LOSS OF POWER

If machine appears to have a loss of power, the following items should be checked:

1. Low input air pressure to machine.
2. Clogged inlet line or valve.
3. Pinched or kinked hose.
4. Excessive air leaks.
5. Foot pedal may be bent and doesn't actuate valve fully.
6. Dirty filter—filter is located in the street ell on the bottom of the surge tank.
7. Breather plug vent in the top of the power cylinder may be clogged.

8. Debris in the cylinder oil—due to leaving plastic plug out of cylinder top.

MACHINE FAILS TO RETURN

If bead looseners and center shaft fail to return, the following items should be checked:

1. Foot valve poppet stuck.
2. Pinched or kinked hose.
3. Breather plug vent clogged.
4. Broken return springs.
5. Unlubricated drive gears (under table top).