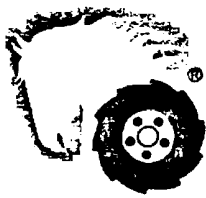


## PARTS LIST AND INSTRUCTIONS



*Wheel Horse*

WHEEL HORSE PRODUCTS, INC. • SOUTH BEND, IND.

## ROTARY MOWER

# RM-323

# RM-363

### ASSEMBLY

A. Remove mower from box and mount the two wheels in the desired hole using shoulder bolt, part number 4177. It will be necessary to move wheels up or down depending on the height of cut desired.

B. Slide mower under tractor and mount the two mounting brackets to the second and fourth hole of the tractor frame.

C. Move tractor lift lever forward and hook lift link to the outer hole of lift arm, locking with hair pin cotter. Raise mower and adjust the lock nut on the lift link so mower is tight against tractor frame when locked in the up position.

D. Mount the idler arm assembly to the right hand mounting bracket using hair pin cotter. Hook clutch foot pedal to idler arm and push clutch forward. Slide belt over engine pulley and mower pulley, checking to make sure pulleys are perfectly in line. Release clutch foot pedal and check belt alignment. Tightness of belt is automatically adjusted through the tension spring.

E. Adjusting bolt (1394) can now be adjusted for proper cutting angle at the front of mower. (Adjust so front of mower is approximately  $\frac{1}{4}$ " lower than back.)

### OPERATION

1. The height of cut is adjusted by moving the wheels up or down and by adjusting the single front adjusting bolt, part number 1394. The front of the mower should be tilted forward slightly (approximately  $\frac{1}{4}$ " ) so the blades will not double cut.

2. The single belt is automatically tightened to the proper tension with the tension spring. However, the double belts may be taken up, when necessary, by loosening the two nuts on the hangers (4114) and turning them out to take up the belts. It is not necessary to make these belts very tight. It is very important that both hangers be taken up the same. If they are not, one belt will be over-loaded and not run true on the pulley. Tighten nuts after adjustment.

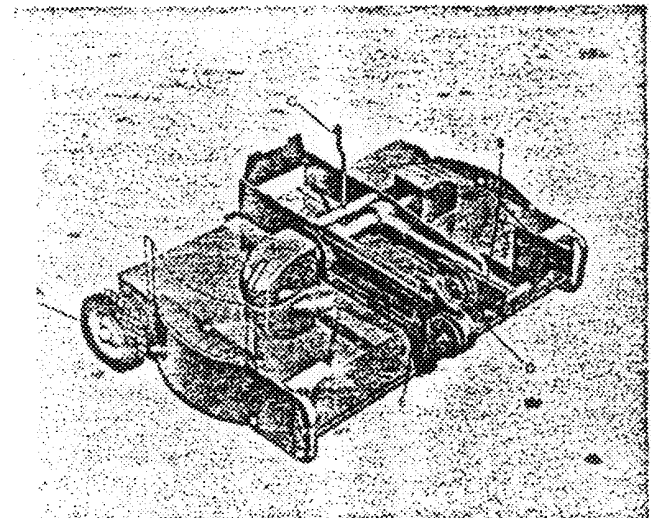
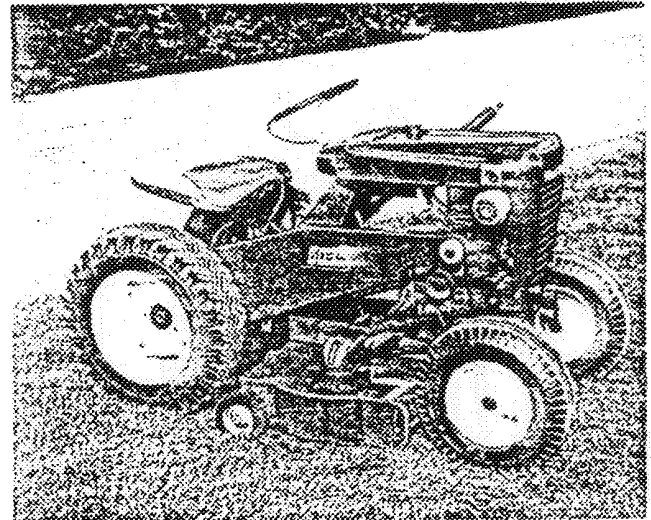
3. Never stand on mower when it is in the up position (the extra weight could result in damage to the hangers).

4. When blades become dull, remove and regrind. **CAUTION:** Sharpen evenly on both sides so blade does not become out of balance.

5. The mower has side plates which may be removed when cutting heavy grass or weeds. The sideplates may be reinstalled in an inverted position, as shown in the illustration, thus acting as an additional foot guard. **EXTREME CAUTION** should be exercised when the sideplates are removed, because of the danger of flying debris.

6. The mower is also equipped with a front guard which is adjustable up and down. The guard must be adjusted to the highest position when cutting heavy grass or weeds.

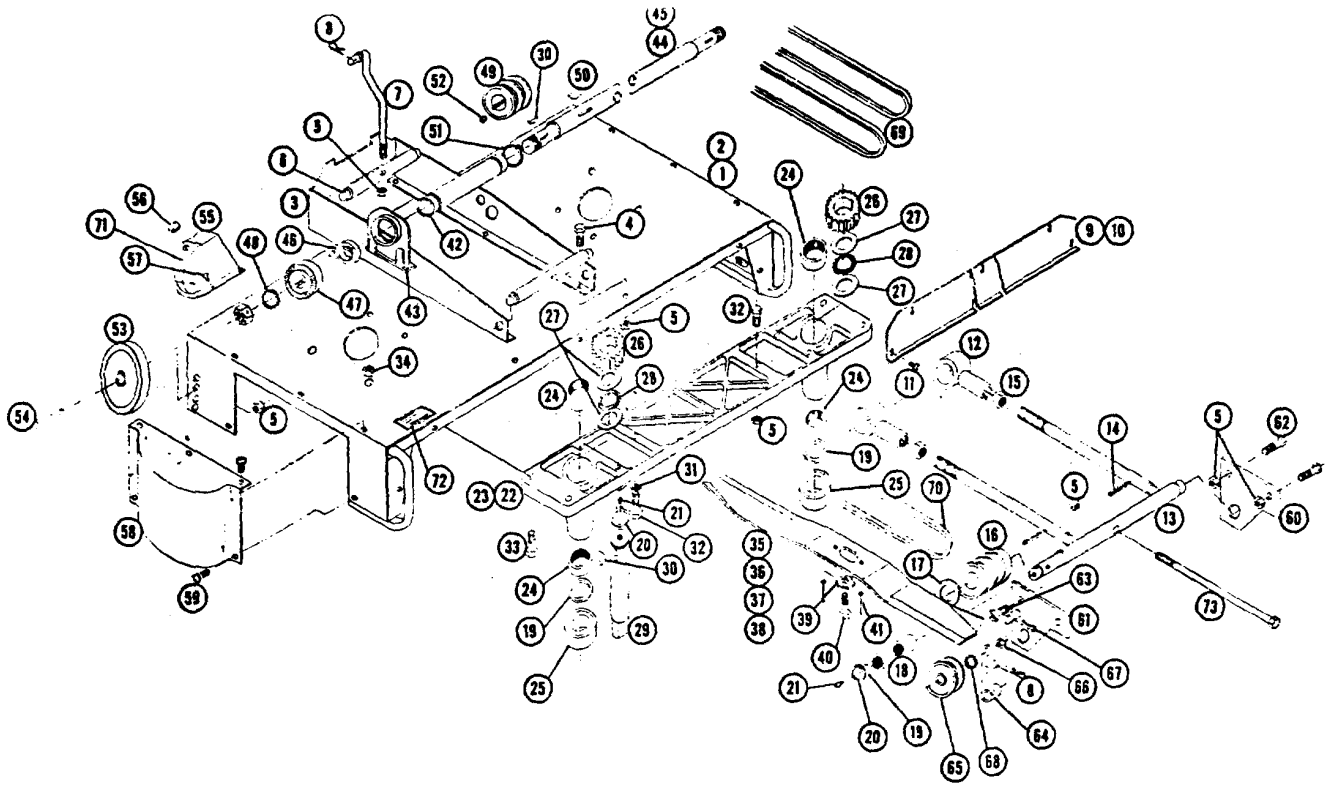
**CAUTION:** If this guard is removed, be sure and keep engine air screen clean to prevent overheating of engine.



### LUBRICATION

The mower was greased at the factory but should be greased again before operating, and after every 10 hours of use. There are 3 fittings: one under each gear cover, which may be reached through the holes provided (**Caution:** Excessive pressure will force grease seals from the bottom of the shafts), and one on the end of the hanger shaft. All other bearings and moving parts should be oiled frequently with a light grade of machine oil.

Before mowing, the mower should be operated at a slow speed to check all moving parts for any damage or looseness caused in transporting.



**PARTS LIST**

| Ref. No. | Part No. | Description                                       | No. Req'd. | Ref. No. | Part No. | Description   | No. Req'd. |
|----------|----------|---|------------|----------|----------|---|------------|
| 1        | 4185     | Ass'y. Deck 32" (323)                             | 1          | 38       | 4117     | Blade L.H. 18" (363)                                  | 1          |
| 2        | 4186     | Ass'y. Deck 36" (363)                             | 1          | 39       | 1336     | Washer - Dome   | 2          |
| 3        | 4124     | Ass'y. Bracket - Mtg.                             | 1          | 40       | 908033-6 | Bolt - Nylack $\frac{3}{8}$ - 16 x $\frac{7}{8}$ Hex. | 2          |
| 4        | 908032-4 | Bolt - Hex. $\frac{3}{8}$ - 16 x $\frac{3}{4}$    | 4          | 41       | 933211   | Roll Pin $\frac{1}{4}$ x $\frac{3}{4}$                | 4          |
| 5        | 915113-6 | Nut - Nylack $\frac{3}{8}$ - 16                   | 14         | 42       | 4113     | Tube - Pivot  | 1          |
| 6        | 4118     | Shaft - Lift Pivot                                | 2          | 43       | 3138     | Housing - Bearing                                     | 2          |
| 7        | 4119     | Rod - Lift  | 1          | 44       | 4112     | Shaft 36" (363)                                       | 1          |
| 8        | 1372     | Hair Pin  | 2          | 45       | 3155     | Shaft 32" (323)                                       | 1          |
| 9        | 2631     | Guard - Grass Shield (323)                        | 1          | 46       | 1515     | Bearing - Ball  | 2          |
| 10       | 2632     | Guard - Grass Shield (363)                        | 1          | 47       | 3130     | Gear - Face   | 2          |
| 11       | 1385     | Screw - Sems - $\frac{1}{4}$ - 20 x $\frac{1}{2}$ | 5          | 48       | 920128-4 | Lockwasher $\frac{5}{8}$ Dia. Ext. Tooth              | 2          |
| 12       | 4115     | Rod End   | 2          | 49       | 1624     | Pulley  | 1          |
| 13       | 4114     | Ass'y. Hanger                                     | 1          | 50       | 937014   | Key #9 Woodruff                                       | 1          |
| 14       | 933160   | Roll Pin $\frac{1}{8}$ x $1\frac{1}{2}$           | 2          | 51       | 50-112   | Snap Ring $1\frac{1}{8}$ Shaft                        | 2          |
| 15       | 915089-4 | Nut - Hex. - Jam $\frac{3}{8}$ - 18               | 4          | 52       | 909862   | Set Screw $\frac{5}{16}$ - 18 x $\frac{3}{16}$        | 1          |
| 16       | 1625     | Pulley  | 1          | 53       | 2877     | Wheel   | 2          |
| 17       | 1278     | Washer $\frac{3}{4}$ x $1\frac{1}{4}$ x .050      | 1          | 54       | 4177     | Bolt - Shoulder                                       | 2          |
| 18       | 1540     | Bearing - Needle                                  | 2          | 55       | 3141     | Cover - Gear  | 2          |
| 19       | 1303     | Seal - Oil $\frac{3}{4}$ Shaft                    | 4          | 56       | 3757     | Plug - Button   | 2          |
| 20       | 50-75    | Snap Ring $\frac{3}{4}$ Shaft                     | 3          | 57       | 1304     | Screw #8-32 Self Tap                                  | 8          |
| 21       | 1030     | Fitting - Grease                                  | 3          | 58       | 4176     | Cover - End Plate                                     | 2          |
| 22       | 4102     | Housing - Twin (363)                              | 1          | 59       | 1391     | Screw - Sems $\frac{1}{4}$ - 20 x $\frac{3}{8}$       | 10         |
| 23       | 4175     | Housing - Twin (323)                              | 1          | 60       | 4123     | Plate - Mt'g. Bracket L.H.                            | 1          |
| 24       | 1508     | Bearing - Needle                                  | 4          | 61       | 4127     | Ass'y. Plate & Pin R.H.                               | 1          |
| 25       | 3716     | Cup - Spindle                                     | 2          | 62       | 908034-4 | Bolt - Hex. $\frac{3}{8}$ - 16 x 1                    | 3          |
| 26       | 3131     | Gear - Spur                                       | 2          | 63       | 909086-4 | Bolt - Rd. Hd. $\frac{3}{8}$ - 16 x 1                 | 1          |
| 27       | 1535     | Race - Thrust Bearing                             | 4          | 64       | 4110     | Ass'y. Idler Arm                                      | 1          |
| 28       | 1534     | Bearing - Thrust                                  | 2          | 65       | 1618     | Ass'y. Idler Pulley & Shaft                           | 1          |
| 29       | 4120     | Spindle - Blade                                   | 2          | 66       | 915004-6 | Nut - Nylack $\frac{1}{2}$ - 20                       | 1          |
| 30       | 937009   | Key #5 Woodruff                                   | 4          | 67       | 1386     | Hair Pin  | 1          |
| 31       | 920083-4 | Lockwasher $\frac{3}{8}$ Dia.                     | 4          | 68       | 920126-4 | Washer $\frac{1}{2}$ Dia. Ext. Tooth                  | 1          |
| 32       | 908035-4 | Bolt - Hex. $\frac{3}{8}$ - 16 x $1\frac{1}{4}$   | 6          | 69       | 1578     | "V" Belt 37"  | 2          |
| 33       | 908019-4 | Bolt - Hex. $\frac{3}{8}$ - 18 x 1                | 4          | 70       | 1577     | "V" Belt 28"  | 1          |
| 34       | 915112-6 | Nut - Nylack $\frac{3}{8}$ - 18                   | 4          | 71       | 3710     | Decal - Grease  | 2          |
| 35       | 3718     | Blade R.H. 16" (323)                              | 1          | 72       | 4148     | Decal - Caution                                       | 2          |
| 36       | 3719     | Blade L.H. 16" (323)                              | 1          | 73       | 1394     | Bolt - Hex. $\frac{3}{8}$ - 16 x 8                    | 1          |
| 37       | 4116     | Blade R.H. 18" (363)                              | 1          |          |          |   |            |

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Wheel Horse Service Bulletins 1961 - 1990: **#99a** Issued: April 1980

## **Blade Kits for 1961-68 36" Mowers**

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THIS BULLETIN SUPERCEDES SERVICE BULLETIN 99 ISSUED MAY, 1968

To All Dealers:

1. Topic:

1.1 One of two blade kits must be selected when replacing P/N 4116 and 4117 mower blades, used as original equipment on 1961 through 1968 36" mowers.

2. Service Action:

2.1 Order Mower Blade Kit P/N 101522 for the 1961 model RMR-3661 mower.\*

2.2 Order Mower Blade Kit P/N 8014 for the following 1962-68 36" mower models:

RMR-3662

RM- 363

RM- 364

RM- 366

RL- 366

RM- 367

RL- 367

5-1361

5-2361

\* When present stock of P/N 101522 is exhausted, P/N 8014 blade kit will be substituted. This kit contains P/N 7906 & 7907 mower blades. To use these longer blades on the RMR-3661, grind 1/8" from each end of each blade and balance them before installation.