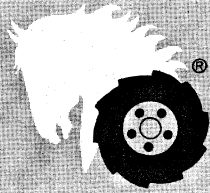


PARTS LIST AND INSTRUCTIONS



Wheel Horse

WHEELHORSE PRODUCTS, INC. • SOUTH BEND, IND.

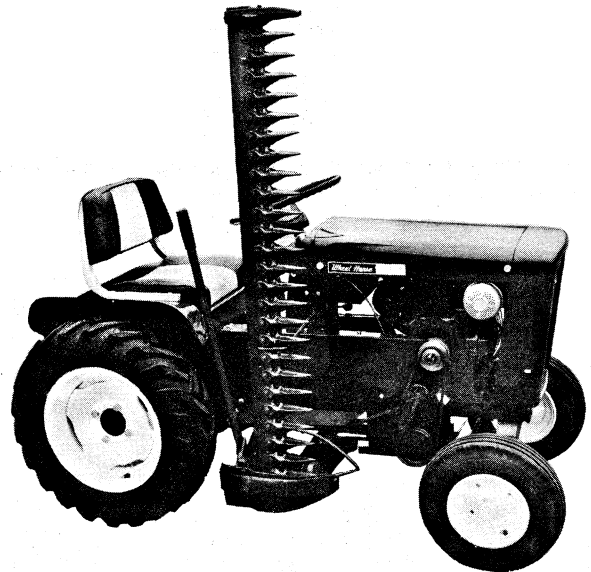


ASSEMBLY

Place the tractor on which the mower is to be mounted on a clean smooth floor or other surface, making sure that there is adequate clear space for the mounted mower. Remove the mower parts from the box and arrange in a convenient manner along side the tractor.

- A. Attach engine pulley, Part No. 5590 to engine shaft, secure with set screw.
- B. Attach mounting plate, Part No. 3391 to transmission mounting plate on tractor using screws, Part No. 908036-4 and lock washers.
- C. Slide shaft of frame, Part No. 3384 in hole of mounting plate and in hole of shaft support, Part No. 3388.
- D. Mount shaft support to frame of tractor using the fifth and sixth holes from front, secure with bolts, Part No. 908034-4 and nuts, Part No. 915663-4.
- E. Attach pivot bar, Part No. 4739 to mounting plate with $\frac{1}{2}$ "-13 x $1\frac{1}{4}$ " bolt, Part No. 908059-4 and nylock nut, Part No. 915115-6.
- F. Attach lift bar, Part No. 3390 to pivot bar with hairpin, Part No. S-52-12.
- G. Attach lift bar to lift arm of tractor with hairpin, Part No. 933512-4.
- H. Attach cutter bar to frame with link, Part No. 1966 using bolts, Part No. 908034-4.
- I. Thread belt, Part No. 1558 over idler pulleys, Part No. 1623 and over sickle drive pulley, Part No. 2659.
- J. Adjust tightness of belt by adjusting bolt, Part No. 5595 lock with nut, Part No. 915115-6. Slide set collar, Part No. 3374 against mounting plate and secure with set screw, Part No. 909540.

SIDE MOUNTED SICKLE SMS-505



- K. Put belt, Part No. 1552 on engine drive pulley.
- L. Attach clutch spring, Part No. 5185 to hole in frame.
- M. Attach handle, Part No. 2678 to sickle drive housing. Secure with cotter pin, Part No. 932017-4 and spring, Part No. 1014.
- N. Attach travel hook, Part No. 2700 in holes provided on the mast of the tractor. Use bolts, Part No. 908017-4 and Lockwashers, Part No. 920082-4.
- O. Fill the sickle drive housing with #30 motor oil to the level of the large filler plug in the side of the housing with the cutter bar on a level surface.
- P. Turn the fly wheel pulley by hand. If noticeable tightness is apparent inspect the guards and hold down clips. Tightness can often be eliminated by loosening the guard bolts then turning the unit several times by hand and retightening the bolts. When the unit turns relatively easily by hand start the tractor engine and run mower slowly for a few minutes. A light grade of machine oil or motor oil should be used to lubricate any hot spots that develop on the knife until it is properly worn in. Gradually increase speed until it is operating under full throttle.

OPERATION

1. The height of the cut is controlled by the position of the cutter bar skid, Part No. 2234, at the outer end of the bar and the lower shoe, Part No. 2677. The cutter bar skid is adjusted by the addition or removal of skid spacers, Part No. 2233. Four holes are provided in the rear end of the lower shoe for adjustment.
2. The short belt tension is maintained automatically by the tension spring on the tractor. The long belt is adjusted as explained in the assembly instructions.
3. The position of the grass rod at the end of the cutter bar may be adjusted to suit the various con-

ditions under which the mower may operate. Correct positioning prevents plugging at the lower shoe.

4. The knife assembly may be removed for sharpening or replacement by loosening the jam nut, Part No. 915089-4. **NOTE: It is very important that this pin and jam nut be kept tight. Looseness can destroy the threads in the drive arm.**

5. For transporting, the cutter bar may be raised to a vertical position. Insert the cutter bar hooks into the hole in the cutter bar and secure with the wing nut provided. The placement of this hook between two guards prevents accidental operation of the knife when in transport position.

6. Safety First: Caution should be exercised in the operation of this machine. Children and pets should

be kept away from the mowing area. Never attempt to remove obstructions from the cutter bar without first shutting off the tractor engine.

LUBRICATION

The sickle drive housing should be kept filled to the level of the large filler plug with #30 motor oil. This oil level should be checked periodically. The knife head should be lubricated with a good grade of gun grease after every four hours of operation. All other high speed bearings are sealed and need no further attention. Machine oil or motor oil may be used at hinge points to insure freedom of operation and prevent rust.

PARTS LIST

When ordering parts always list Part No. and name of part.

| Ref. No. | Part No. | Description | No. Req'd. | Ref. No. | Part No. | Description | No. Req'd. |
|----------|----------|--|------------|----------|----------|---------------------------------------|------------|
| 1 | 5041 | Ass'y. Housing Complete — Sickle Drive | 1 | 59 | 5598 | Cover — Belt | 1 |
| 2 | 2701 | Ass'y. Housing & Bearings | 1 | 60 | 926452-4 | Screw — Hex #8-32 x 3/8 Self Tap | 4 |
| 3 | 2644 | Housing | 1 | 61 | 3384 | Ass'y. Frame | 1 |
| 4 | 2694 | Bearing — Bronze Sleeve | 1 | 62 | 3374 | Collar | 1 |
| 5 | 2692 | Bearing — Bronze Sleeve | 1 | 63 | 909540 | Set Screw 5/16-18 x 1 1/2 Square Head | 1 |
| 6 | 2695 | Bearing — Bronze Sleeve | 1 | 64 | 915115-6 | Nut — Nylok 1/2-13 | 2 |
| 7 | 2655 | Pin | 1 | 65 | 5595 | Bolt — Hex 1/2 x 13 x 2 1/4 (Special) | 1 |
| 8 | 915090-4 | Nut 3/4-16 Jam | 1 | 66 | 3388 | Ass'y. Shaft Support | 1 |
| 9 | 2683 | Ass'y. Shaft — Weldment | 1 | 67 | 908034-4 | Bolt — Hex 3/8-16 x 1 | 4 |
| 10 | 2687 | Ass'y. Yoke | 1 | 68 | 915663-4 | Nut 3/8-16 Elastic Stop | 10 |
| 11 | 2690 | Yoke | 1 | 69 | 5269 | Ass'y. Bearing — Ball — Flanged | 2 |
| 12 | 2686 | Bearing — Bronze Sleeve | 2 | 70 | 900037-4 | Bolt — Carriage 3/8-18 x 3/4 | 4 |
| 13 | 2702 | Ass'y. Shaft — Wobble Drive | 1 | 71 | 915112-6 | Nut — Nylok 3/8-18 | 6 |
| 14 | 2693 | Bearing — Bronze Sleeve | 1 | 72 | 900038-4 | Bolt — Carriage 3/8-18 x 1 | 2 |
| 15 | 2691 | Pin — Yoke | 1 | 73 | 909862-6 | Set Screw 3/16-18 x 3/16 Hex | 6 |
| 16 | 936121 | Snap Ring — Truarc .625 Shaft | 2 | 74 | 3391 | Ass'y. Plate Mounting | 1 |
| 17 | 936122 | Snap Ring — Truarc .669 Shaft | 1 | 75 | 3390 | Ass'y. Bar — Lift | 1 |
| 18 | 936028 | Snap Ring — Truarc 1.562 Bore | 1 | 76 | 4739 | Ass'y. Bar & Pin | 1 |
| 19 | 5596 | Bearing — Ball .687 Shaft | 1 | 77 | 908059-4 | Bolt — Hex 1/2-13 x 1 1/2 | 1 |
| 20 | 1482 | Seal 1 1/4 Shaft | 1 | 78 | 933503-4 | Hairpin Cotter | 1 |
| 21 | 1232 | Seal 1" Shaft | 1 | 79 | 933512-4 | Hairpin Cotter | 1 |
| 22 | 943428 | Plug 1 x 11-1/2 Pipe Square Head | 1 | 80 | 3380 | Ass'y. Lever — Attachment | 1 |
| 23 | 2657 | Cover — Plate | 1 | 81 | 932017-4 | Cotter Pin 1/8 x 1 | 3 |
| 24 | 2656 | Gasket | 1 | 82 | 933188 | Roll Pin 3/8 x 1 | 2 |
| 25 | 909017-4 | Screw — Round Head #10-24 x 3/8 | 6 | 83 | 3381 | Pedal — Attachment — Clutch | 1 |
| 26 | 920079-4 | Lock Washer #10 | 6 | 84 | 5185 | Spring | 1 |
| 27 | 935135-4 | Plug — Button | 1 | 85 | 6360 | Clip — Belt | 1 |
| 28 | 2659 | Pulley 4" Dia. | 1 | 86 | 2678 | Ass'y. Lever — Lift | 1 |
| 29 | 1005 | Key Square 3/16 x 3/16 x 1 | 1 | 87 | 1000 | Grip | 1 |
| 30 | 908033-5 | Bolt — Nylok 3/8-16 x 7/8 | 1 | 88 | 1014 | Spring | 1 |
| 31 | 2680 | Pin — Sickle Drive | 1 | 89 | 932034-4 | Cotter Pin 3/8 x 1 | 1 |
| 32 | 915089-4 | Nut — Hex 3/8-18 Jam | 1 | 90 | 920015-4 | Washer 3/4 S.A.E. | 1 |
| 33 | 1336 | Washer — Dome | 1 | 91 | 932019-4 | Cotter Pin 1/8 x 1 1/2 | 1 |
| 34 | 2643 | Ass'y. Shoe — Upper | 1 | 92 | 2700 | Bracket — Travel Hook | 1 |
| 35 | 2677 | Shoe — Lower | 1 | 93 | 908017-4 | Bolt Hex 3/8-18 x 3/4 | 2 |
| 36 | 2685 | Rod — Grass | 1 | 94 | 920082-4 | Lock Washer 3/8 Dia. | 2 |
| 37 | 908034-4 | Bolt — Hex 3/8-16 x 1 | 5 | 95 | 3378 | Hook — Travel Support | 1 |
| 38 | 915113-4 | Nut — Hex 3/8-16 | 9 | 96 | 915586-4 | Nut Wing 3/8-16 | 1 |
| 39 | 920083-4 | Lockwasher 3/8 Dia. | 9 | 97 | 1608 | Pulley 2 1/2 Dia. | 1 |
| 40 | 908036-4 | Bolt — Hex 3/8-16 x 1 1/2 | 4 | 98 | 1969 | Pulley | 1 |
| 41 | 900064-4 | Bolt — Carriage 3/8-16 x 1 1/4 | 11 | 99 | 937014 | Key #9 Woodruff | 2 |
| 42 | 920039-4 | Washer 3/8 Dia. U.S. | 1 | 100 | 909848-6 | Set Screw 1/4-20 x 1/4 Hex | 2 |
| 43 | 5043 | Ass'y. Cutter Bar Complete 50" | 1 | 101 | 3376 | Shaft | 1 |
| 44 | 2704 | Ass'y. Bar — Guard | 1 | 102 | 3389 | Shield Pulley | 1 |
| 45 | 2697 | Ass'y. Knife Bar & Sections | 1 | 103 | 1623 | Ass'y. Idler Pulley | 3 |
| 46 | 2236 | Section | 25 | 104 | 2233 | Spacer | 1 |
| 47 | 1498 | Bushing | 1 | 105 | 1967 | Spacer | 2 |
| 48 | 1071 | Rivet | 50 | 106 | 1966 | Link | 1 |
| 49 | 1291 | Fitting — Grease 90° | 1 | 107 | 5590 | Pulley — Engine Drive | 1 |
| 50 | 2230 | Guard — Cutter Bar | 10 | 108 | 909849-6 | Set Screw 1/4-20 x 5/16 Hex | 1 |
| 51 | 2684 | Guard — Cutter Bar | 1 | 109 | 1349 | Key 1/4 x 1/4 x 1 1/2 | 1 |
| 52 | 900063-4 | Bolt — Carriage 3/8-16 x 1 | 15 | 110 | 908047-4 | Bolt Hex 3/8-14 x 1 1/4 | 1 |
| 53 | 908038-4 | Bolt — Hex 3/8-16 x 2 | 1 | 111 | 5591 | Stop — Belt | 1 |
| 54 | 2231 | Plate — Cutter Bar | 4 | 112 | 1552 | Belt 37" | 1 |
| 55 | 2232 | Clip — Cutter Bar | 4 | 113 | 1588 | Belt 59" | 1 |
| 56 | 2234 | Skid — Cutter Bar | 1 | 114 | 4498 | Decal — Gen. Caution | 1 |
| 57 | 2233 | Spacer — Skid | 2 | 115 | 4410 | Decal — Square Emblem | 1 |
| 58 | 908035-4 | Bolt — Hex 3/8-16 x 1 1/4 | 1 | 116 | 5604 | Decal — Attachment Emblem | 1 |
| | | | | 117 | 3710 | Decal — Grease | 1 |

