

PARTS LIST AND INSTRUCTIONS

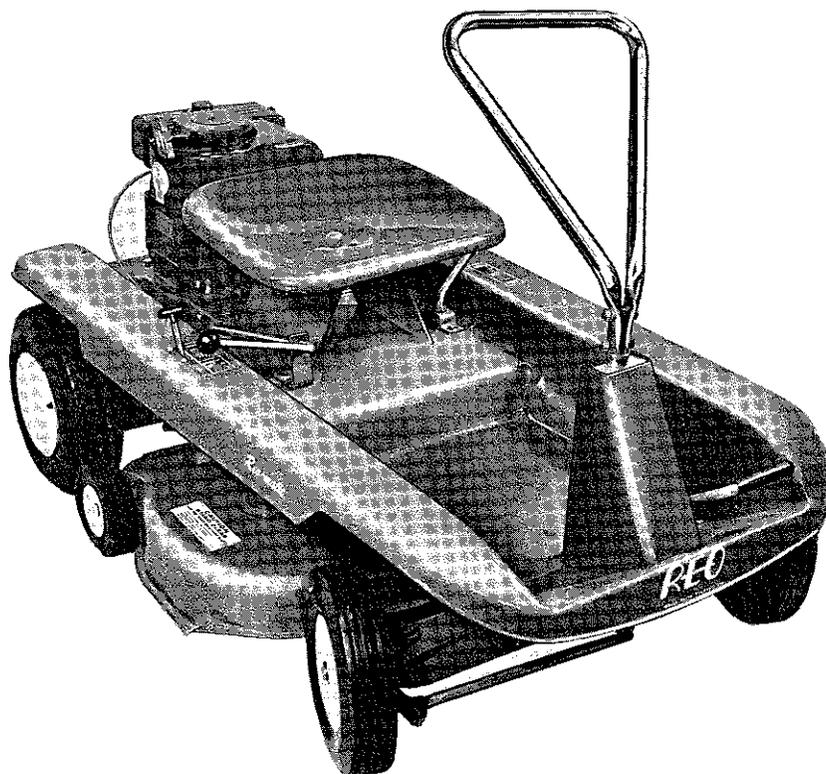
REO

WHEELHORSE PRODUCTS, INC. • SOUTH BEND, IND.

model

RR-47

Riding Rotary Mower



OWNER'S MANUAL

"Quality is Standard Equipment in Every Wheelhorse Product"



ASSEMBLY

Your new Reo RR-47 comes completely assembled except for installation of steering handle.

A. Remove unit from carton.

B. Place 2 washers, Part No. 920216-4, on steering shaft. Install steering handle and secure with 2 $\frac{5}{16}$ -18 x $1\frac{1}{2}$ bolts, Part No. 908021-4 and 2 $\frac{5}{16}$ -18 stop nuts, Part No. 915662-4.

WARRANTY

We warrant Wheel Horse Products for One Year from date of purchase against defective parts and workmanship. We will replace, free of charge, any defective part if returned to the factory Prepaid.* Wheel Horse Products, Inc., reserves the right to make changes or improvements upon its products without imposing any obligations upon itself to install the same upon its products that have been previously manufactured.

The engine and battery carry a separate warranty by the manufacturers. For engine or battery service, contact your local engine or battery service headquarters.

*All warranty claims, work, shipments must be handled through your authorized Wheel Horse Reo Dealer.

NOTE: 90 Days Warranty for Commercial Use.

BEFORE YOU START

There is **NO OIL** in the crankcase of the engine when shipped from the factory. Use a good grade of regular oil. The engine oil weights listed below are recommended by the engine manufacturer and must be followed for best performance and long life.

Above 32° Use S.A.E. 30W

Below 32° Use S.A.E. 10W

Check oil level every 5 hours of operating time or each time equipment is used.

Change oil every 25 operating hours or sooner if equipment is operated in extremely dusty or dirty conditions. Read engine manual and follow all instructions pertaining to proper maintenance specified. The engine is the heart of your riding mower and it is very important that you keep it in good condition.

Before draining oil from the engine push down on the clutch pedal. This will allow the clutch idler bar to extend through the slot in the rear of the unit. A bolt or screwdriver should be put through the hole in the bar to keep it from going back. This will allow oil to flow unrestricted into a can or pail.

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

Lubricate all grease fittings with a regular pressure gun lubricant every eight or ten hours of operation. Refer to Figure 1 for location of grease fittings.

A light machine oil should be used on all moving parts.

The transmission has been packed at the factory with special lubricant and should need no further attention.

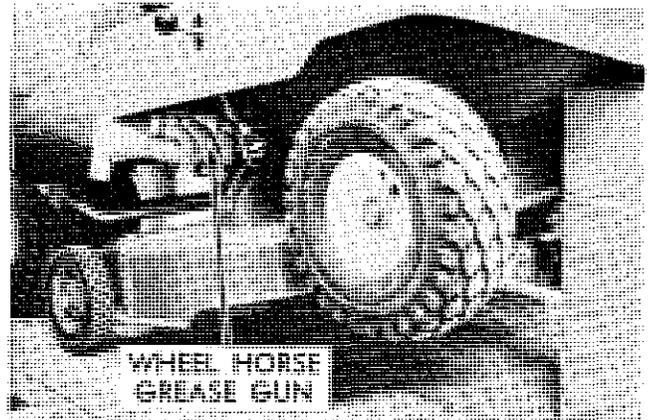


PHOTO A

The mower gear boxes have been lubricated at the factory. The spindles are mounted in precision needle bearings and will run for long periods, without relubrication. Under average conditions, seasonal lubrication at the beginning of the mowing season is all that is required. To relubricate, lower mower and place the front end of the rider on a box for greater clearance. See photo (A). Use a regular Wheel Horse grease gun to lubricate the grease fittings on the top of spindles after removing access plug. A small amount of grease should be added with the gun lifted off the spindle fitting to lubricate the gears. Regular pressure gun grease is used.

TIRES

The front tires are 10 x 2.75 semi-pneumatic. The rear tires are 4.10-3.50 x 6 and should be inflated to 8 to 10 pounds of air pressure.

STARTING ENGINE

1. Before starting the engine fill gas tank (located on the engine) with a good grade of regular gas. See Figure 1.

2. Place gear shift lever in neutral position.

3. Make sure mower clutch is disengaged.

4. Move throttle lever to choke position.

5. The Model RR-47 has a recoil starter with a choke position on the throttle control.

(NOTE: Keep feet clear of mower while pulling recoil starter.)

6. When engine starts move throttle control off choke and to the desired engine speed.

CLUTCHING AND REVERSING

The pedal at the left hand side of the steering column serves as both the clutch and reverse control. The transmission is disengaged from the engine by depressing the pedal slightly over halfway down. At this point the transmission can be shifted into the high or low range.

With the transmission in either range the direction of travel can be reversed when the pedal is firmly depressed.

The travel speed in reverse is **one-half** the travel speed forward in either range.

The clutch-reverse pedal can be used as a brake in operation by pressing it down to where it begins to engage reverse. To shift to reverse when travelling at full speed forward, firmly but slowly push the pedal down as far as it will go.

CARE OF THE RR-47

1. Keep RR-47 greased and oiled regularly. Refer to Figure 1 for location of grease fittings.
2. Keep engine air cleaner clean. This will add to engine life.
3. Keep tires properly inflated. See instructions on tires.
4. Keep RR-47 covered and in dry place when not in use.
5. Keep grass and dirt out of engine cowling as this will stop the flow of air and decrease engine life.
6. Clutch-Reverse Adjustment: If the clutch-reverse pedal bottoms out on the mower body before reverse is fully engaged an adjustment can be made at the trunnion located just inside the left front wheel. Remove the cotter pin from the trunnion and turn trunnion farther onto the rod extending to the rear. This adjustment should be such that the pedal cannot be depressed all the way down to the mower body. Reinstall trunnion and cotter pin when proper adjustment has been attained.
7. When replacing belts make sure all pulleys are in line.
8. Your RR-47 is only as good as the service you give it. See your Reo Dealer for a thorough check-up after each season of use.
9. When replacing belts be sure to purchase genuine Wheel Horse belts, as these belts are specifically designed for each application.
(NOTE: Make sure all pulleys are properly aligned.)
10. The seat has three (3) possible seat positions provided by the three holes in the seat support.

MOWER HEIGHT ADJUSTMENT

11. Different cutting heights can be obtained by threading the wheel bolt into any one of the four holes provided on the side of the mower deck.

MOWER BELT ADJUSTMENT

12. If mower blades slow down or stop and engine continues to run when mowing heavy grass check tension of long twisted belt. This belt tension is maintained by adjusting the nut at the front end of the bar adjacent and parallel to the belt. Do not put more tension on belt than necessary as excess tension will lead to premature belt and bearing failure.

13. Make sure that wire fingers retaining the belt on the engine reverse pulley are as close to the belt as permissible without rubbing with idler in the engaged position.

14. The mower will operate most efficiently when the front of the mower is tipped down slightly. The tips of the blades at the front should be about $\frac{1}{8}$ " below the tips of the blades at the rear. The height can be adjusted by first removing the hairpin cotter Part No. 933505-4 and clevis pin, Part No. 932965-4 (See Mower Exploded View Items No. 43 and 46) then turning the yoke with the bolt enclosed in or out of the threaded trunnion.

FOR SAFE OPERATION

With proper care and adjustment, your new Reo RR-47, has been designed to give many years of satisfactory performance.

Preparation for operation and operating hints listed below are recommended for all mowers and approved by the Outdoor Power Institute for safe operation of your mower.

1. Before mowing, clear the entire lawn area to be mowed of all debris that could catch on or be thrown by the blades.
2. When you mow on rough terrain or in high grass or weeds, the mower should be set at the highest cutting point. In tall grass or weeds, a second cutting may be made to bring the grass down to the desired height. Adjust cutting height by raising and lowering wheels on mower.
3. Mowers do not operate well in wet grass. Wet grass has a tendency to build up on mower housing and give non-uniform discharge.
4. Fill gas tank outdoors. Avoid spilling gasoline and **Do Not fill the tank** while engine is running or while you are smoking.
5. While mowing, give undivided attention to the job at hand, keep the cutting path in area of operation clear of all persons, particularly small children.
6. Never leave engine running unattended, children could get hurt.
7. Don't overspeed the engine. Excessive cutting speed or tampering with governor can be dangerous.
8. Exercise special care when mowing around objects to prevent the blades from striking them, and never deliberately mow over any object.
9. **Stop mowing when another person approaches** — prohibit others from riding with you on your Riding Mower.
10. Riding mowers can be tipped to either back or side. Exercise extreme caution when mowing on slopes or inclines. Engage clutch slowly and smoothly. Never abuse your mower by improper handling.
11. Never adjust mower until engine has been turned off.
12. If your RR-47 is to be used for purposes other than mowing place mower clutch in disengaged position, stop engine, and remove the belt in the bottom groove of the engine pulley.

Never allow child to operate this unit.

SPECIFICATIONS

MODEL RR-47 . . . recoil starter

(Specifications subject to change without notice.)

Fuel Capacity	. . . . . 2 quarts	
Speeds	Low Range	High Range
Forward	1 to 2 m.p.h.	2 to 4 m.p.h.
Reverse	$\frac{1}{2}$ to 1 m.p.h.	1 to 2 m.p.h.
Length	. . . . . 52 $\frac{3}{8}$ inches	
Wheel Base	. . . . . 35 inches	
Height	. . . . . 29 inches	
Cutting Heights	. . . . . 1 $\frac{3}{8}$ inches to 3 $\frac{1}{4}$ inches	
Cutting Width	. . . . . 32 inches	
Tires		
Front	. . . . . 10 x 2.75 Semi-Pneumatic	
Rear	. . . . . 4.10-3.50 x 6 (Tube Type)	
Outside Turning Radius	. . . . . 5 feet	
Shipping Weight	. . . . . Approx. 272 lbs	

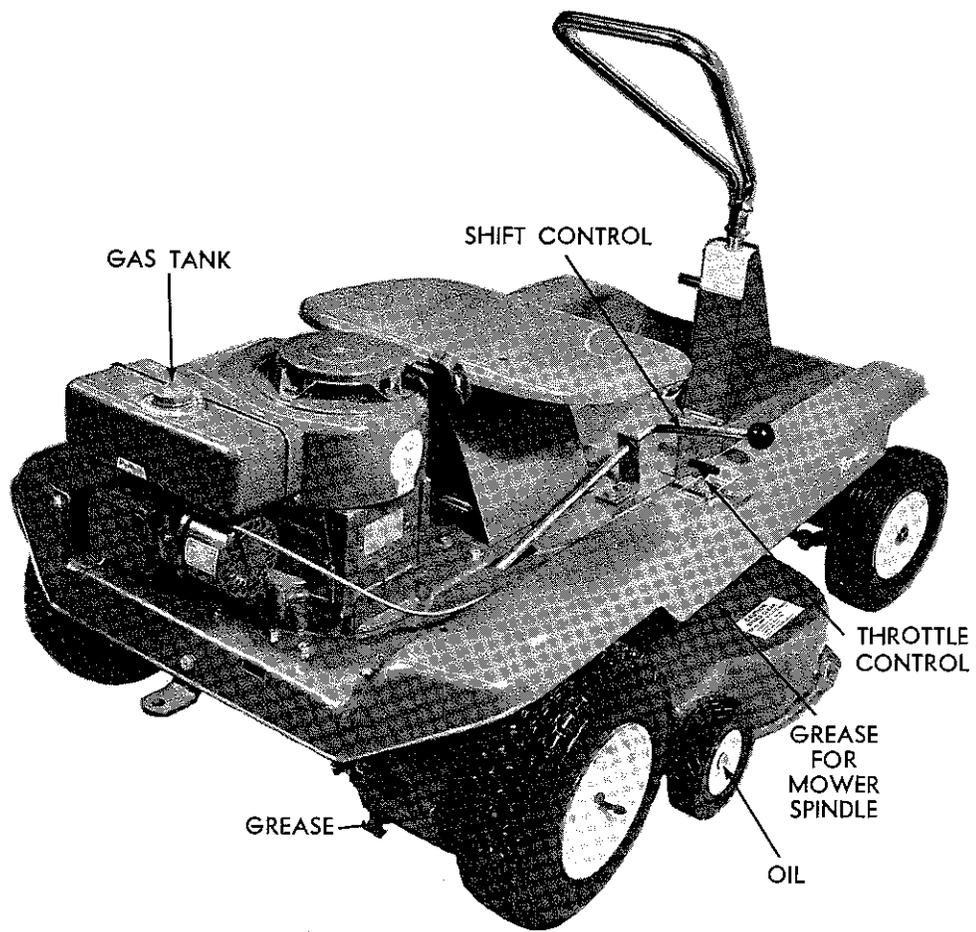
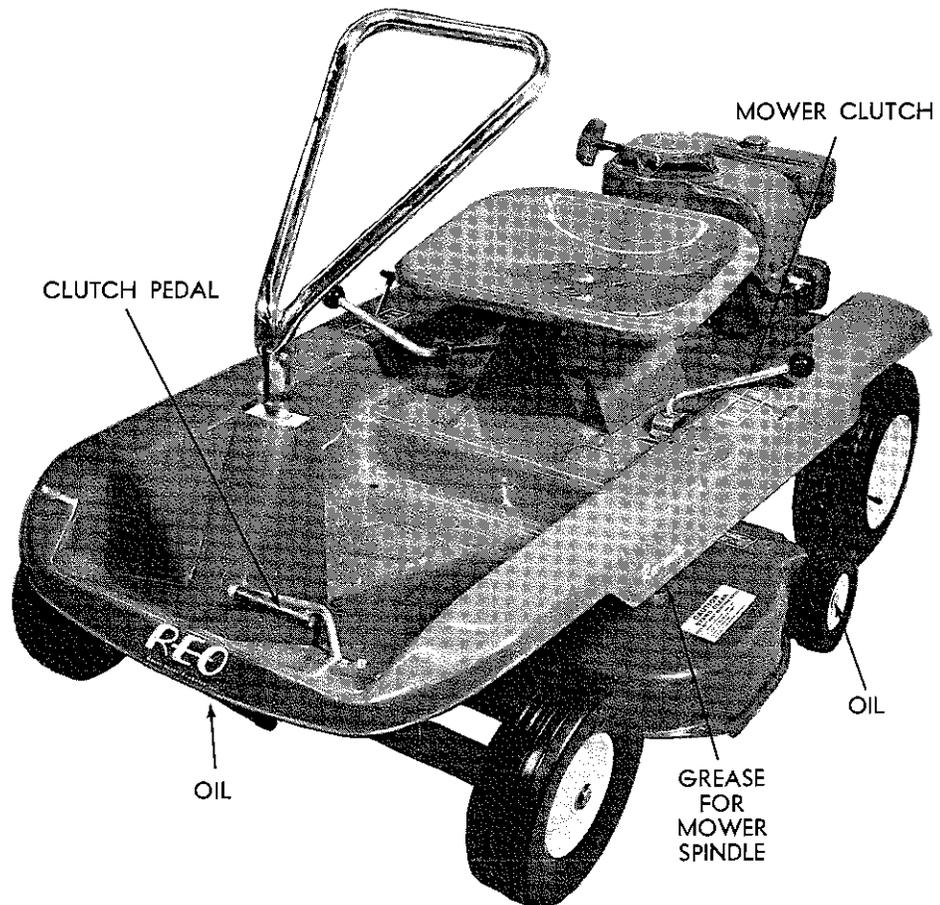
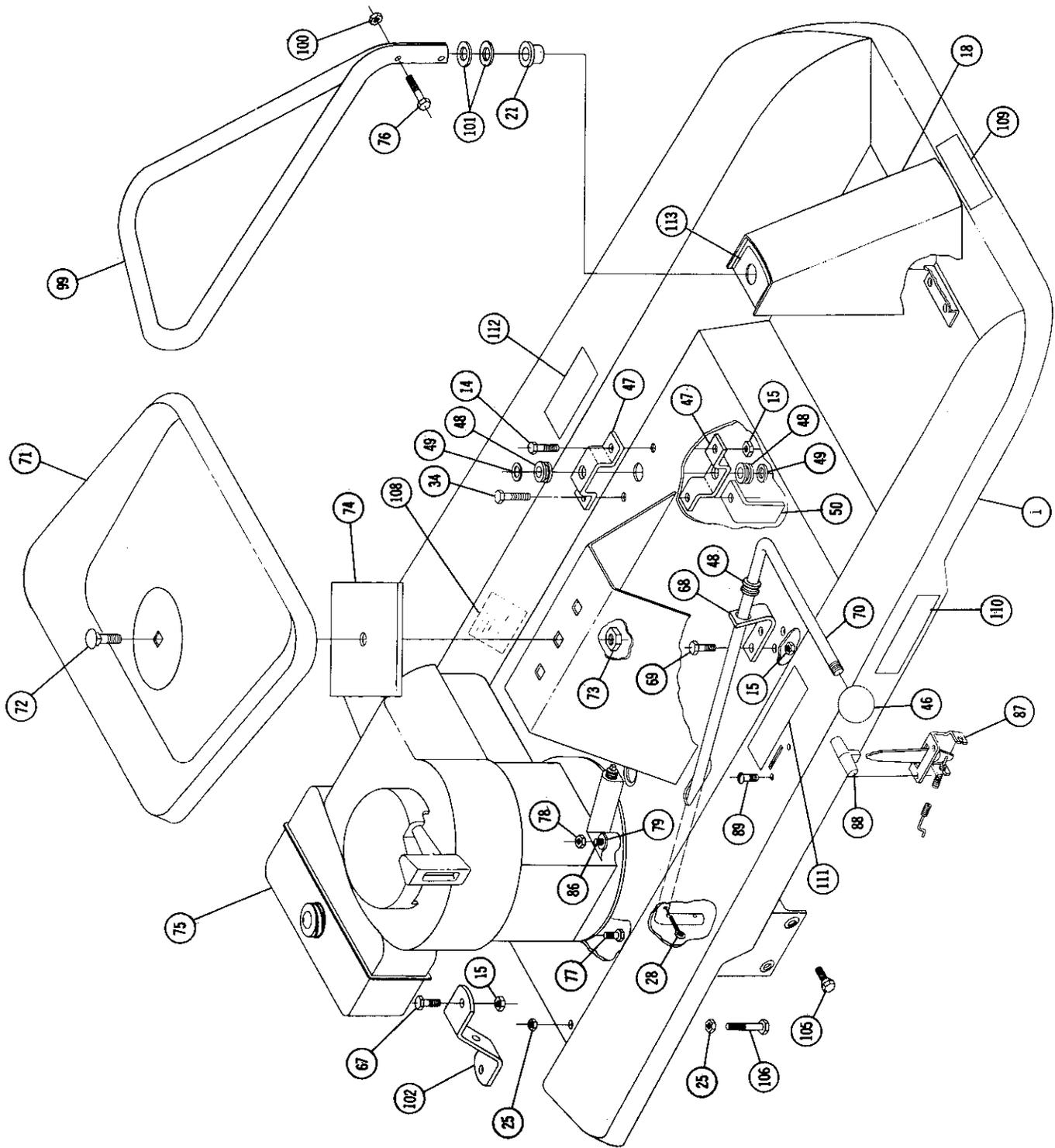
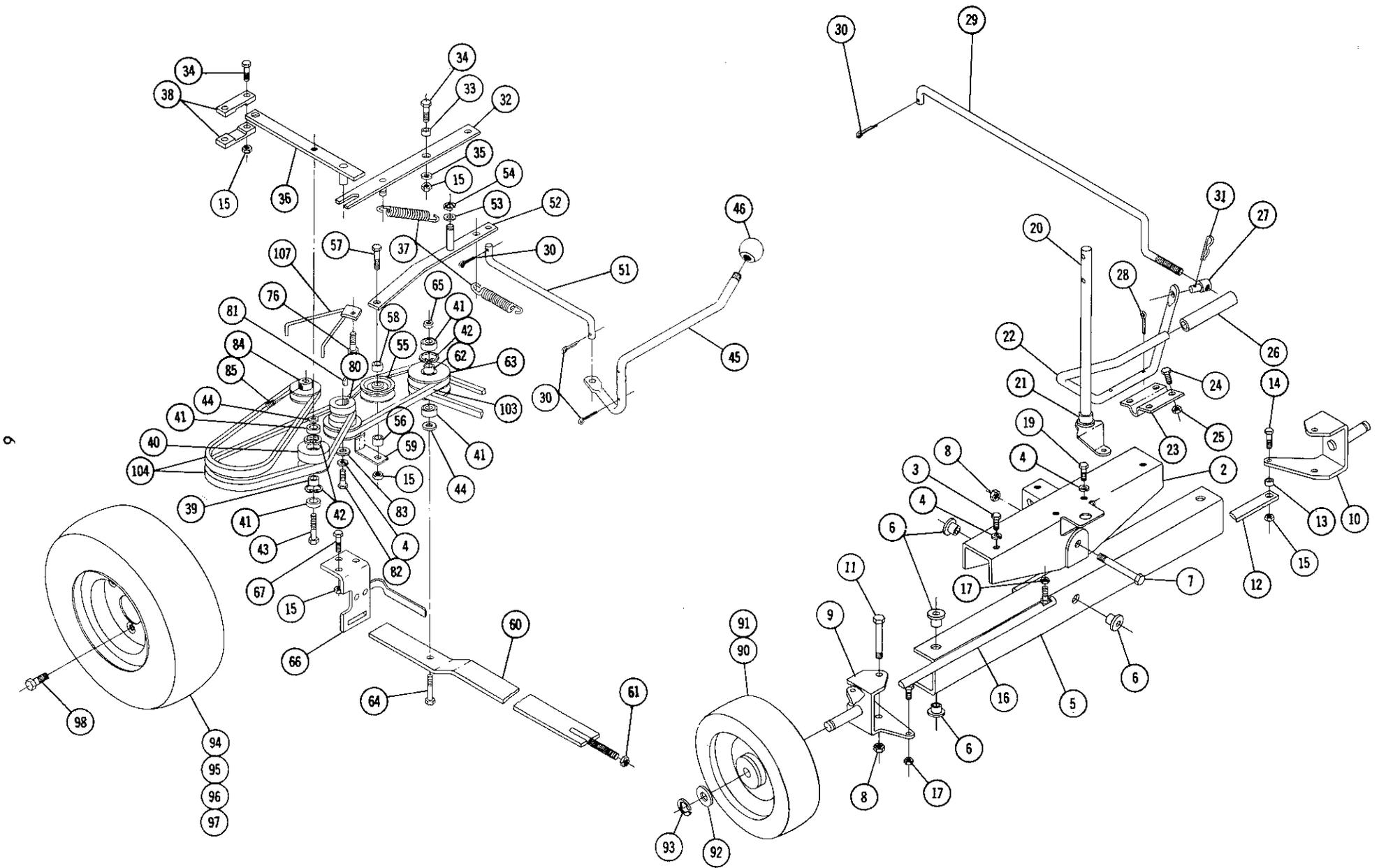


Figure 1





Main Body Ass'y.

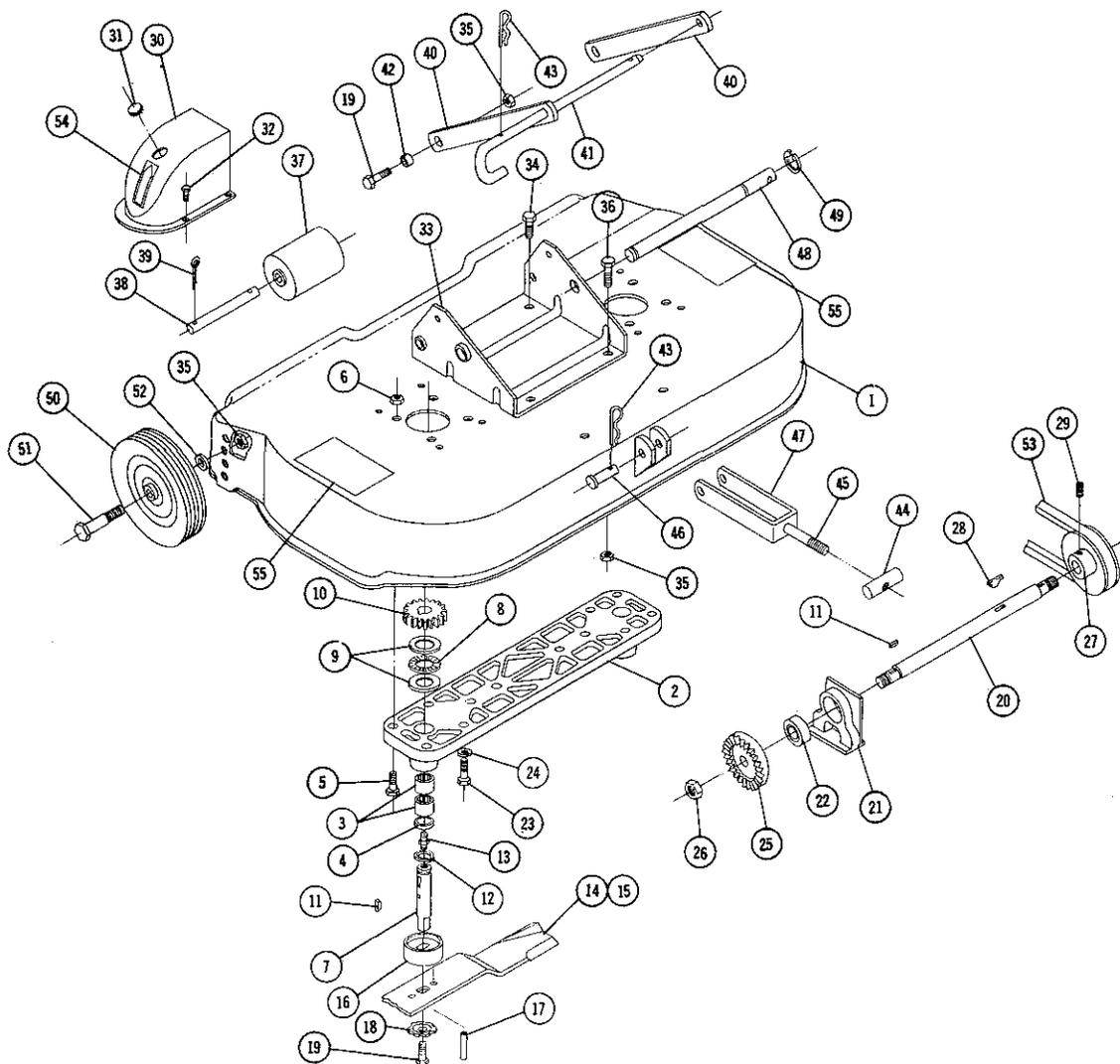


Steering & Wheel Ass'y.

RR-47 RIDING MOWER 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	6367	Ass'y. Body	1	58	6814	Spacer	1
2	6370	Ass'y Axle Support	1	59	6360	Bracket — Belt Guide	1
3	908030-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{1}{2}$	3	60	6778	Ass'y. Arm — Belt Adj.	1
4	920083-4	Lackwasher $\frac{3}{8}$ Dio	6	61	915113-6	Nut $\frac{3}{8}$ -16 Nylok	1
5	5775	Ass'y. Axle — Front	1	62	6595	Spacer — Double Idler Pulley	1
6	5840	Bushing	6	63	6776	Pulley — Double Idler	1
7	5795	Bolt Hex $\frac{1}{2}$ -13 x 3 (Special)	1	64	908051-4	Bolt — Hex $\frac{1}{4}$ -14 x $2\frac{1}{4}$	1
8	915751-4	Nut Hex $\frac{1}{2}$ -13	3	65	915114-6	Nut $\frac{1}{4}$ -14 Nylok	1
9	5782	Ass'y. Arm & Spindle R.H.	1	66	7047	Ass'y. Bracket — Guide	1
10	5783	Ass'y Arm & Spindle L.H.	1	67	908033-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{1}{8}$	5
11	5794	Bolt Hex Special $\frac{1}{2}$ -13	2	68	5821	Bracket — Shift	1
12	5796	Drag Link	1	69	908032-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	2
13	4937	Spacer	2	70	6667	Rod — Shift	1
14	908034-4	Bolt Hex $\frac{3}{8}$ -16 x 1	3	71	3973	Seat	1
15	915663-4	Nut $\frac{3}{8}$ -16 Elastic Stop	17	72	900112-4	Bolt — Carriage $\frac{1}{2}$ -13 x 1	1
16	5797	Ass'y. Boll Joint	1	73	915115-6	Nut $\frac{1}{2}$ -13 Nylok	1
17	915001-6	Nut $\frac{5}{16}$ -24 Nylok	2	74	6432	Plate — Seat Reinforcement	1
18	6372	Ass'y. Steering Support	1	75	6380	Ass'y Engine 4 H.P. Recoil	1
19	908031-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{5}{8}$	2	76	908021-4	Bolt Hex $\frac{5}{16}$ -18 x $1\frac{1}{2}$	3
20	6375	Ass'y Shaft — Steering	1	77	908016-6	Bolt Hex $\frac{5}{16}$ -18 x $\frac{5}{8}$ Nylok	2
21	5409	Bushing — Nylon	2	78	915112-6	Nut Hex $\frac{5}{16}$ -18 Nylok	2
22	6665	Pedal — Reverse Clutch	1	79	920008-4	Washer $\frac{5}{16}$ Dia.	2
23	5842	Bracket	1	80	5835	Pulley — Engine	1
24	908001-4	Bolt Hex $\frac{1}{4}$ -20 x $\frac{1}{2}$	4	81	937010	Key #6 Woodruff	1
25	915111-6	Nut Hex $\frac{1}{4}$ -20 Nylok	8	82	908182-4	Bolt Hex $\frac{3}{8}$ -24 x $\frac{3}{8}$	1
26	4569	Tube — Rubber (Pedal)	1	83	2844	Washer — Special	1
27	5791	Stud — Trunion	1	84	5836	Pulley — Camshaft	1
28	932017-4	Cotter Pin $\frac{1}{8}$ x 1	3	85	909850-6	Set Screw Hex Soc $\frac{1}{4}$ -20 x $\frac{3}{8}$	1
29	6666	Rod — Clutch	1	86	908020-4	Bolt Hex $\frac{5}{16}$ -18 x $1\frac{1}{4}$	1
30	932016-4	Cotter Pin $\frac{1}{8}$ x $\frac{3}{4}$	5	87	6160	Ass'y Control — Throttle	1
31	933505-4	Hairpin	5	88	6161	Knob	1
32	6194	Ass'y. Arm — Clutch	1	89	908996-4	Screw Round Head #8-32 x $\frac{1}{2}$	2
33	6331	Spacer	1	90	6381	Ass'y Wheel 10 x 2.75	2
34	908035-4	Bolt Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	6	91	6385	Bearing	2
35	920009-4	Washer $\frac{3}{8}$ SAE	1	92	1278	Washer	2
36	6777	Ass'y Bar — Clutch Idler	1	93	5618	"E" Ring $\frac{3}{4}$ Shaft	2
37	1129	Spring	2	94	6383	Ass'y Wheel & Tire	2
38	5802	Block — Nylon	4	95	5837	Wheel	2
39	4763	Spacer	1	96	MW-10493	Tire	2
40	6775	Pulley — Idler — Forward & Reverse	1	97	MW-10494	Tube	2
41	6593	Bearing — Ball $\frac{1}{4}$ I.D.	4	98	1004	Lug Bolt — Wheel $\frac{3}{16}$ -20	6
42	936020	Snap Ring $1\frac{1}{8}$ Nom Int	4	99	6378	Handle — Steering	1
43	908048-4	Bolt Hex $\frac{1}{4}$ -14 x $1\frac{1}{2}$	1	100	915662-4	Nut $\frac{5}{16}$ -18 Elastic Stop	2
44	920201-4	Washer	2	101	920216-4	Washer	2
45	6815	Lever — Mower Clutch	1	102	5838	Bor Hitch	1
46	5852	Knob	2	103	6993	"V" Belt	1
47	5806	Bracket	2	104	1597	"V" Belt	2
48	5807	Grommet — Rubber	3	105	6352	Bolt Lug $\frac{3}{8}$ -16 x $\frac{5}{8}$	2
49	920011-4	Washer $\frac{1}{2}$ SAE	2	106	908010-4	Bolt Hex $\frac{1}{4}$ -20 x $2\frac{1}{4}$	2
50	7046	Stop Mower Clutch	1	107	6363	Ass'y Belt Retainer	1
51	6813	Rod — Mower Clutch	1	108	6163	Decal — Belt Diagram	1
52	6809	Ass'y Arm — Mower Clutch	1	109	6151	Decal — Reo Logo	1
53	3765	Washer $\frac{1}{2}$ I.D.	1	110	6202	Decal — Reomatic	2
54	5701	"E" Ring 500 Dio	1	111	6386	Decal — Throttle & Shift	1
55	1623	Pulley — Idler $\frac{3}{8}$ Bare	1	112	6387	Decal — Mower Clutch	1
56	1536	Spacer $\frac{3}{8}$ Bare	1	113	6388	Decal — Foot Pedal Instruction	1
57	908039-4	Bolt Hex $\frac{3}{8}$ -16 x $2\frac{1}{4}$	1				

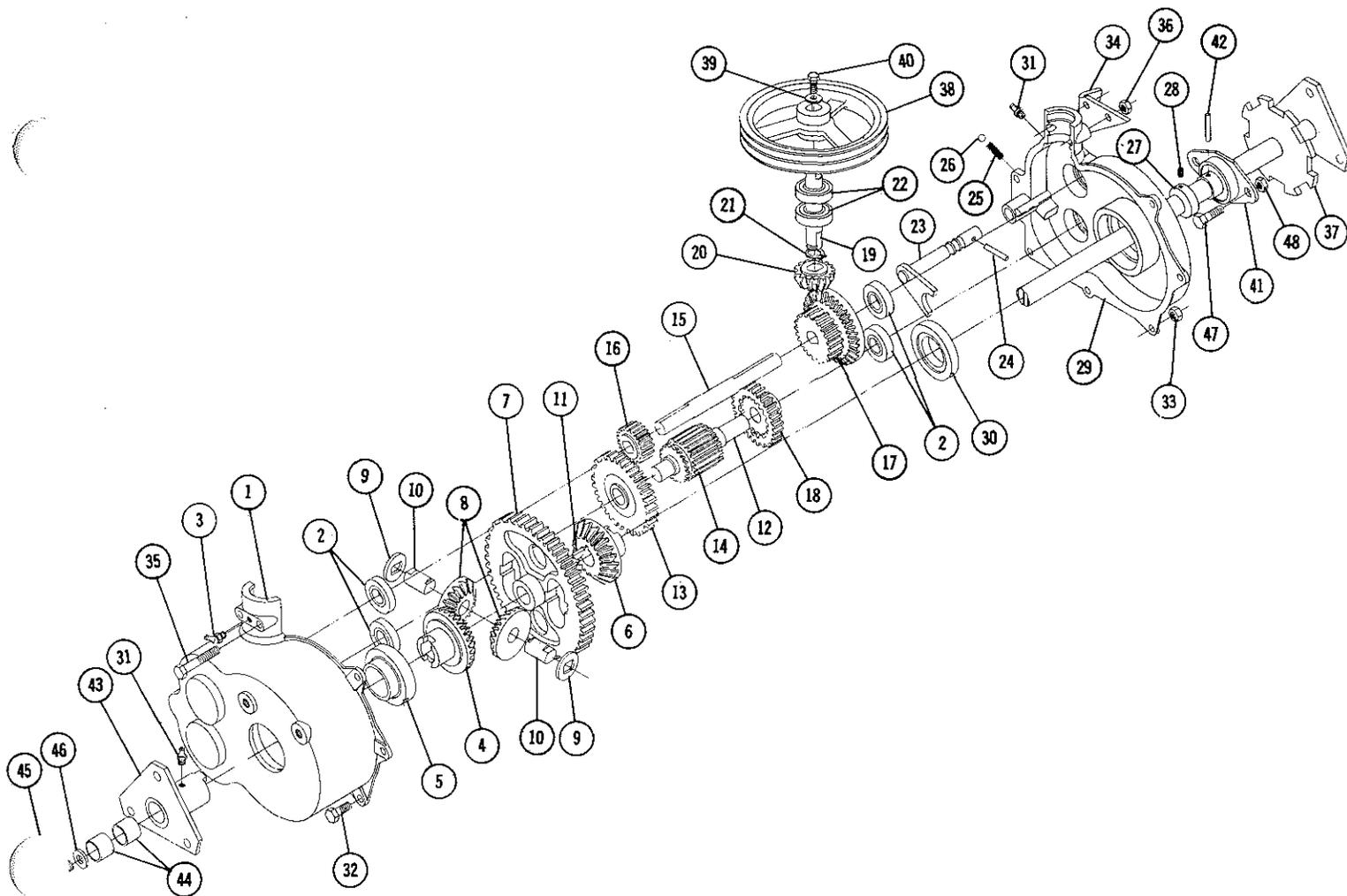


RR-47 MOWER PARTS LIST

(For Complete Mower Order No RM-146)

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	5726	Ass'y Deck	1	29	909862-5	Set Srew $\frac{5}{16}$ -18 x $\frac{5}{16}$ Nylok	1
2	5233	Housing	1	30	3141	Cover — Gear	2
3	1508	Bearing	4	31	3757	Plug Button	2
4	1303	Seal	2	32	1304	Screw Hex #8-32 Self Top	8
5	908018-4	Bolt Hex $\frac{5}{16}$ -18 x $\frac{1}{8}$	4	33	5736	Hanger	1
6	915112-6	Nut — Nylok $\frac{5}{16}$ -18	4	34	908032-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	2
7	3724	Shaft — Spindle	2	35	915663-4	Nut Elastic Stop $\frac{3}{8}$ -16	8
8	1534	Bearing — Thrust	2	36	908034-4	Bolt Hex $\frac{3}{8}$ -16 x 1	2
9	1535	Washer — Thrust	4	37	5240	Ass'y. Roller	1
10	3131	Gear — Spur	2	38	5241	Shaft	1
11	937084	Key #5 Woodruff	4	39	932017-4	Cotter Pin $\frac{1}{8}$ x 1	2
12	936125	Snap Ring $\frac{3}{4}$ Shaft	2	40	6676	Link — Rear Parallel	2
13	1030	Fitting Grease	2	41	6677	Pin — Rear Link	1
14	3718	Blade R.H. 16"	1	42	4937	Spacer	2
15	3719	Blade L.H. 16"	1	43	933505-4	Hairpin	3
16	3716	Cup	2	44	6830	Trunion — Front Link	1
17	933211	Roll Pin $\frac{1}{4}$ x $\frac{3}{4}$	4	45	900885-4	Bolt Square Head $\frac{1}{2}$ -13 x $2\frac{3}{4}$	1
18	1336	Washer Dome	2	46	932965-4	Pin — Clevis	1
19	908033-5	Bolt $\frac{3}{8}$ -16 x $\frac{7}{8}$ Nylok	4	47	6831	Clevis	1
20	3715	Shaft — Cross	1	48	5735	Shaft — Belt Tightener	1
21	3138	Housing	2	49	5618	"E" Ring	2
22	1515	Bearing — Ball	2	50	2877	Wheel	2
23	908034-4	Bolt Hex $\frac{3}{8}$ -16 x 1	4	51	5188	Bolt — Shoulder	2
24	920083-4	Lackwasher $\frac{3}{8}$ Dia	4	52	920009-4	Washer $\frac{3}{8}$ SAE	2
25	3130	Gear	2	53	1596	"V" Belt	1
26	915639	Nut $\frac{5}{8}$ -18 Elastic Stop	2	54	3710	Decol — Grease	2
27	1613	Pulley	1	55	4570	Decol — Caution	2
28	937159	Key #9 HI PRO	1				



RR-47 TRANSMISSION No. 5056 PARTS LIST

(For Complete Transmission Order No 5056)

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	5738	Case R.H.	1	25	6188	Spring	1
2	7060	Bearing — Ball $\frac{5}{8}$ I.D.	4	26	3517	Ball	1
3	1481	Fitting — Grease 45°	1	27	1085	Collar — Axle	1
4	5746	Gear	1	28	909848-5	Set Screw $\frac{1}{4}$ -20 — $\frac{1}{4}$ Nylok	1
5	6639	Bearing — Ball $1\frac{1}{4}$ I.D.	1	29	5739	Case L.H.	1
6	5747	Gear — Axle L.H.	1	30	5741	Bearing — Ball $1\frac{1}{4}$ I.D.	1
7	5745	Gear — Final Drive	1	31	1030	Fitting — Grease	2
8	5748	Gear — Differential Pinion	2	32	908018-4	Bolt Hex $\frac{5}{16}$ -18 x $\frac{7}{8}$	6
9	5749	Washer — Thrust	2	33	915662-4	Nut — Elastic Stop $\frac{3}{16}$ -18	6
10	5750	Pin — Differential	2	34	6668	Bracket — Shift Rod	1
11	937017	Key #11 Woodruff	1	35	908025-4	Bolt Hex $\frac{5}{16}$ -18 x $2\frac{1}{2}$	2
12	5751	Shaft — Sliding Gear	1	36	915112-6	Nut $\frac{3}{16}$ -18 Nylok	2
13	5755	Low Gear	1	37	5742	Ass'y. Axle	1
14	5758	Gear — Sliding	1	38	6671	Pulley	1
15	6678	Shaft — Hi — Low Pinion	1	39	920008-4	Washer $\frac{5}{16}$ SAE	1
16	6679	Pinion — Low	1	40	908016-5	Screw Hex Nylok $\frac{5}{16}$ -18 x $\frac{5}{8}$	1
17	6680	Gear — Combination	1	41	5770	Ass'y. Bearing — Flanged Ball	1
18	5752	High Gear	1	42	933171	Roll Pin $\frac{3}{32}$ x 1	1
19	6681	Shaft — Input	1	43	5771	Ass'y. Hub & Flange	1
20	6682	Gear — Pinion — Input	1	44	1504	Bushing	2
21	936121	Snapring $\frac{5}{8}$ Ext. Truarc	1	45	908032-6	Bolt Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$ Nylok	1
22	6192	Bearing — Ball $\frac{5}{8}$ I.D.	2	46	2844	Washer	1
23	5767	Ass'y. Fork — Shift	1	47	908031-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{5}{8}$	2
24	933190	Roll Pin $\frac{3}{16}$ x $1\frac{1}{4}$	1	48	915113-6	Nut $\frac{3}{8}$ -16 Nylok	2

OWNERS MAINTENANCE RECORD

OIL CHANGES

DATE _____

TYPE & KIND OF OIL _____

DATE _____

GREASE JOBS _____

TUNE UPS

DATE _____

PARTS REPLACED _____

BATTERY SERVICE

DATE _____

SERVICE REQUIRED _____

MISCELLANEOUS

DATE _____

OWNERS MAINTENANCE RECORD

OIL CHANGES

DATE _____

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DATE _____

