



INSTALLATION INSTRUCTIONS

Electric Start Kit No. 902102 & 902108

Rockwell 400 & 440

1. Check parts list and take inventory of parts to familiarize yourself with entire kit.
2. Open hood and lay back the dash console.
3. Remove engine console cover.
4. Remove clutch guard cover.
5. Remove bolts from clutch.
6. Install clutch removal tool (See Fig. No. 1) and remove clutch. (See Fig. No. 2)
7. Mount front bracket to the mounting pad nearest the clutch end of the engine (See Fig. No. 3) using M6x20MM Socket Head Cap Screws and 6MM Lockwashers.



Fig. 1



Fig. 2



Fig. 3

8. Attach rear mounting bracket to starter motor using No. 10 hex nuts and lockwashers. Do not tighten.
9. Mount starter to front bracket using 5/16x1-3/4 hex head screws, 5/16 hex nuts and 5/16 lockwashers. Screw heads must be at clutch side of bracket. (Fig. No. 4).
10. Attach rear mounting bracket to engine using M6 hex head cap screws and lockwashers. Tighten nuts from Step No. 8.



Fig. 4



Fig. 5



Fig. 6

11. Remove crankcase seal from engine and install new seal from kit (See Fig. No. 5) for Kit No. 902102 per instructions in Rockwell Manual. See supplement sheet for Kit No. 902108.
12. Install ring gear with lock and pressure flange and tighten securely (Fig. No. 6) for Kit No. 902102 per instructions in Rockwell Manual. See supplement sheet for Kit No. 902108.



Fig. 7



Fig. 8

13. Remount inner half of clutch and belt. (Fig. No. 7). Remount outerhalf of clutch (Fig. No. 8), clutch cover, nut and bolt. (Fig. No. 9). See Rockwell Manual for proper torque on nut and bolt.
14. Install clutch guard.



Fig. 9



Fig. 10



Fig. 11

15. Remove baffle shield from pull start side of machine (Fig. No. 10), muffler, (Fig. No. 11).

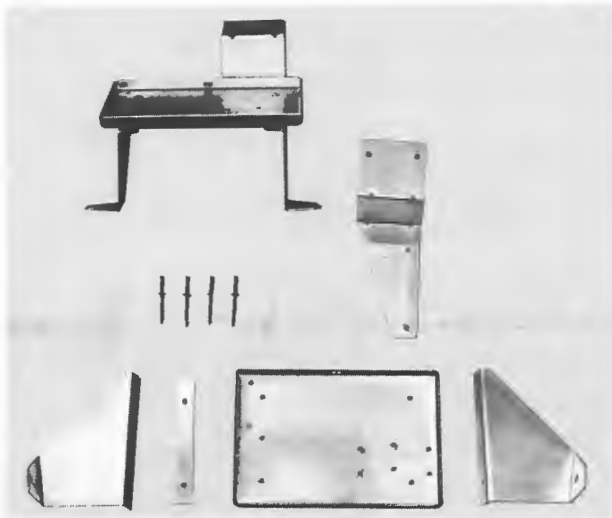


Fig. 12

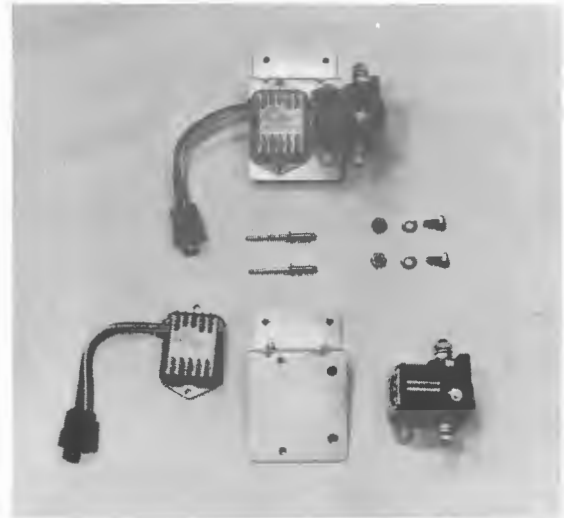


Fig. 13

16. Assemble battery pan and supports as illustrated using 3/16 dia. pop rivets. (Fig. No. 12).

17. Assemble solenoid, voltage regulator and bracket, as illustrated. (Fig. No. 13).

18. Locate battery pan assembly, as illustrated (Fig. No. 14), 1 1/4" from edge of tunnel and 1/2" from behind steering arm to front of pan and mark 4 holes. Remove assembly and drill two 9/32 dia. holes in bottom of machine and two No. 10 (.1935) dia. holes in track tunnel.

Fig. 14



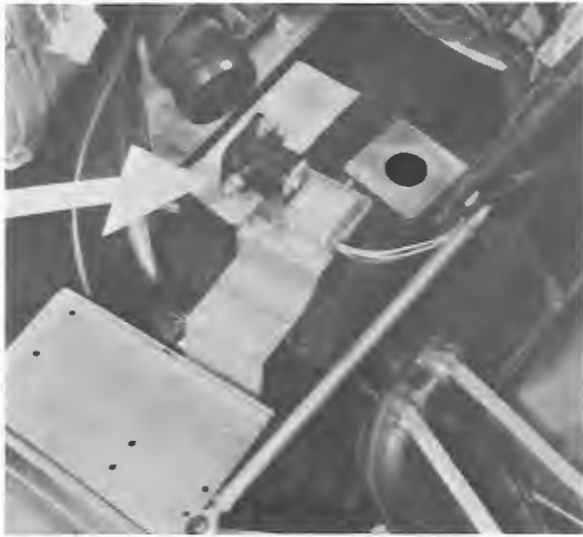


Fig. 15



Fig. 16

19. Mount battery pan assembly and voltage regulator and solenoid assembly as illustrated (Fig. No. 15), using $\frac{1}{4} \times \frac{1}{2}$ hex head screws, lockwashers, nuts and $\frac{3}{16}$ dia. pop rivets.
20. Connect 8" cable from terminal on starter motor to solenoid terminal nearest to starter motor.
21. Connect wiring harness from kit to wiring harness on machine (Fig. No. 16).
22. Connect kit harness to voltage regulator (Fig. No. 17).

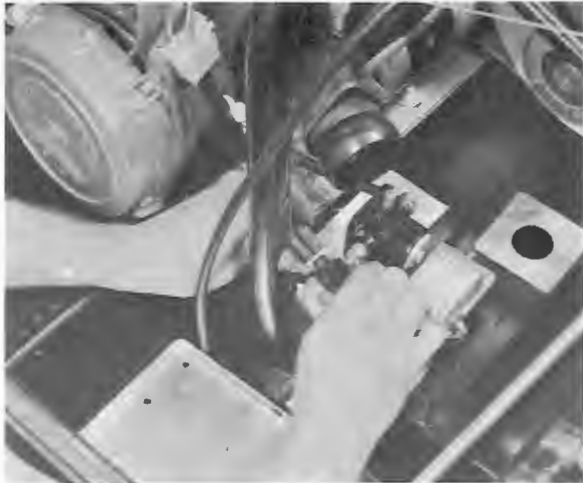


Fig. 17

23. Connect green wire from harness to small activator terminal on solenoid.
 24. Connect fused wire from harness to large terminal on solenoid opposite from terminal in Step No. 20. Connect 12" cable to same terminal.
25. Place pad in battery pan. Set battery on pad and secure with "J" bolts, clips, tie bar, washers and wing nuts. **Note:** positive terminal of battery to be toward front of machine.
 26. Connect cable from Step No. 24 and red wire from harness to positive battery terminal, using $\frac{1}{4} \times \frac{3}{4}$ hex head cap screw, lock washer and nut.
 27. Connect 12" black cable from negative battery terminal, using $\frac{1}{4} \times \frac{3}{4}$ hex head cap screw, lockwasher and nut, to bottom screw of rear starter mounting bracket.

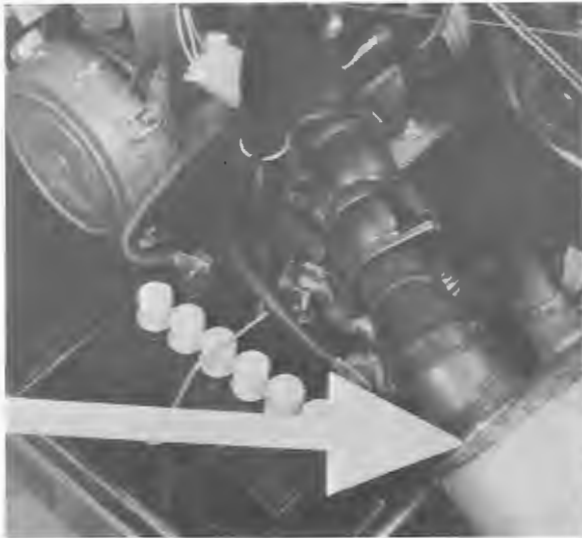


Fig. 18

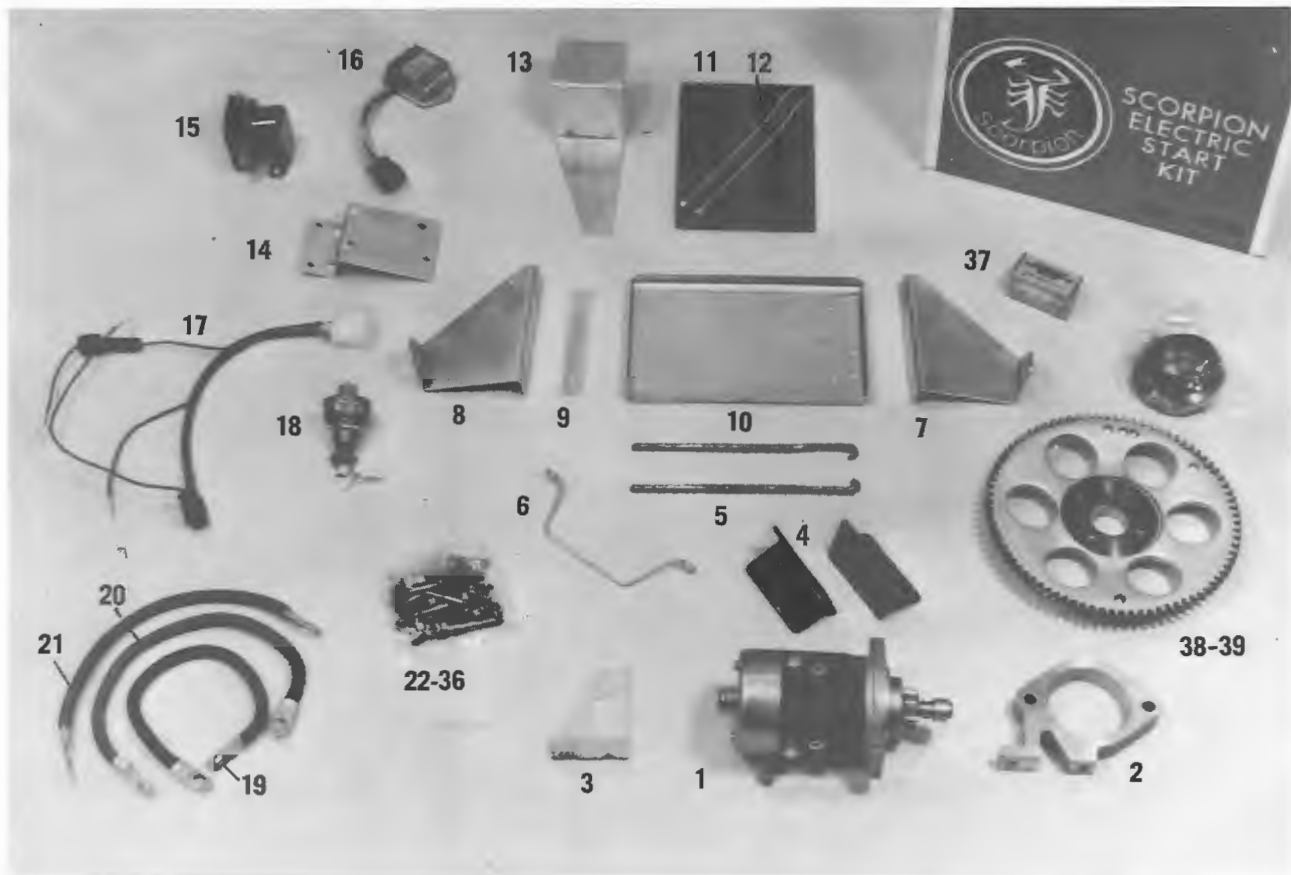


Fig. 19

28. Install muffler (Fig. No. 18), and baffle shield (Fig. No. 19), and engine cover.
29. Disconnect wiring harness from ignition switch (Fig. No. 20), remove switch from console and replace with switch from kit. Connect wiring harness.
30. Using cable ties, secure harness to round support bar immediately in front of engine.
31. Replace headlight bulb with 45 watt bulb from kit. (NOTE: By law, persons in Canada making the electric start conversion are required to leave the 60/60 watt bulb in the machine.)
32. Install "Caution" decal above ignition switch (Fig. No. 20.)



Fig. 20



PARTS LIST

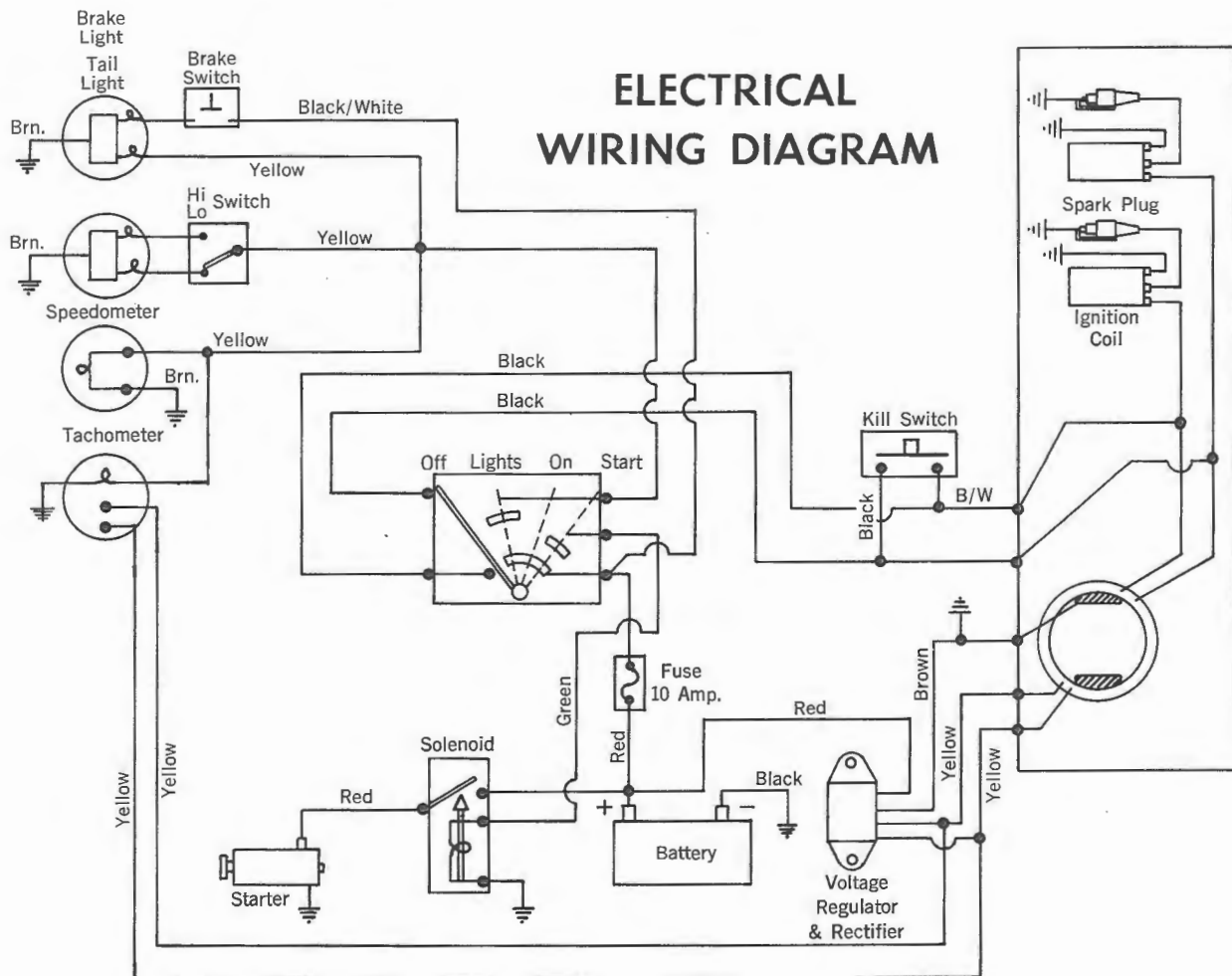
ELECTRIC START KIT # 902102 — Rockwell

ELECTRIC START KIT # 902108 — Rockwell

Item No.	Description	Quantity	Part Number
1	Starter Motor Assembly	1	979144
2	Front Mounting Bracket	1	979145
3	Rear Mounting Bracket	1	979146
4	Clip — Battery Hold Down	2	979123
5	"J" Bolts	2	979124
6	Tie Bar	1	979125
7	Support — Leg — Right	1	979126
8	Support — Leg — Left	1	979127
9	Shim — Battery Pan	1	979128
10	Battery Pan	1	979129
11	Battery Pad	1	979130
12	Cable Ties	2	979132
13	Rear Mounting Bracket — Battery	1	979131
14	Mounting Bracket — Voltage Regulator and Solenoid	1	979135
15	Solenoid	1	979134
16	Voltage Regulator and Rectifier	1	979133
17	Wiring Harness	1	979136
18	Ignition Switch	1	979137
19	Cable Assembly — 8" Red	1	979147

PARTS LIST (CONTINUED)

Item No.	Description	Quantity	Part Number
20	Cable Assembly — 12" Red	1	979138
21	Cable Assembly — 12" Black	1	979139
22	# 10 Lock Washer	2	105103
23	M6x20 MM Socket Head Screw	2	979148
24	M6x16 MM Hex Head Screw	2	979149
25	5/16-18x1¾ Hex Head Screw	2	979150
26	5/16-18 Hex Nut	2	979151
27	5/16 Lock Washer	2	105105
28	6 MM Lock Washer	2	979152
29	¼" Flat Washer	2	979141
30	¼-20 Wing Nut	2	979142
31	¼-20x½ Hex Head Screw	4	100408
32	¼-20 Hex Nut	6	103404
33	¼" Lock Washer	8	105104
34	Pop Rivet ADS68	8	979143
35	¼-20x¾ Hex Head Screw	2	100412
36	# 10-32 Hex Nut	2	102015
37	Light Bulb 45/45W	1	979153
38	Ring Gear Kit — #902102 Only	1	979154
39	Ring Gear Kit — #902108 Only	1	979155



Form 75-0007