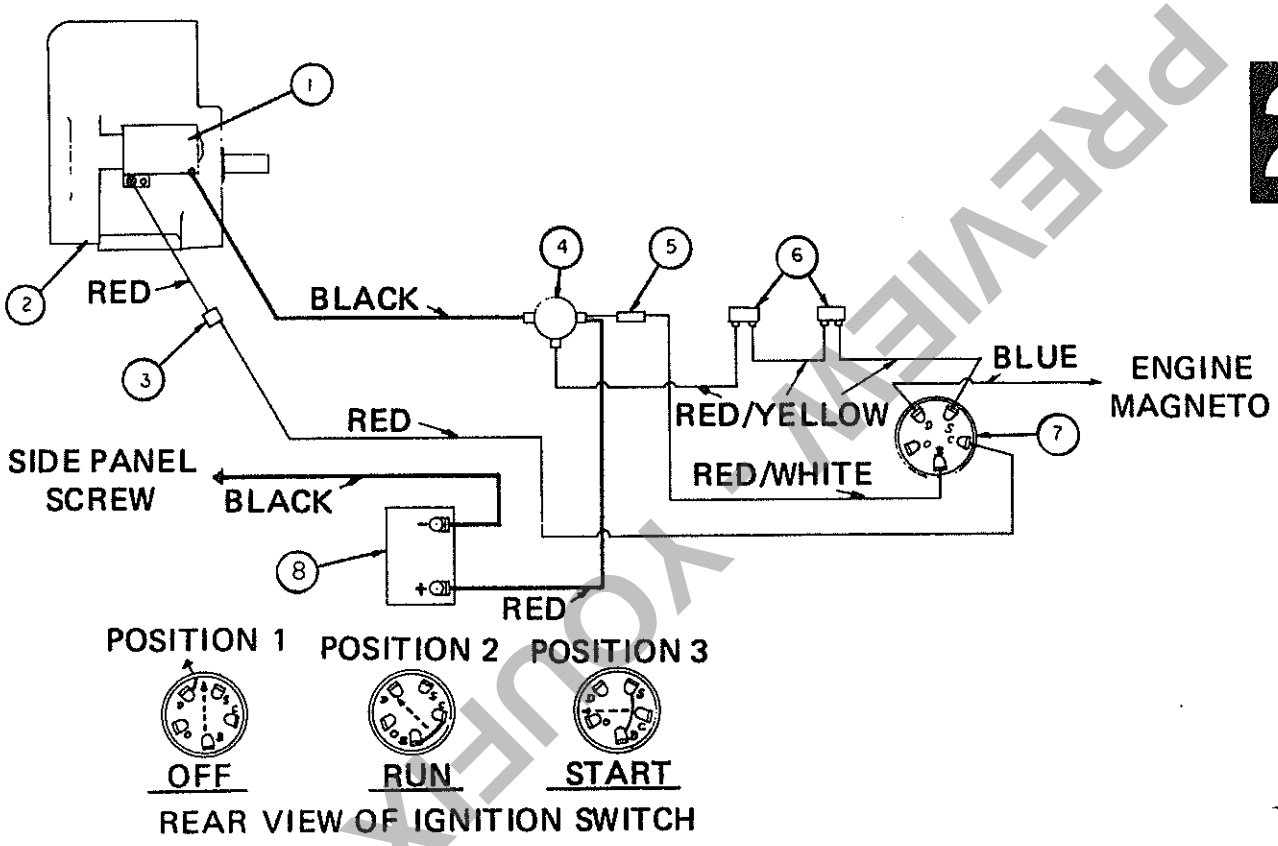
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WIRING DIAGRAM
G9 (855)
MAGNETO IGNITION



1. STARTER
2. ENGINE
3. CONNECTOR
4. SOLENOID
5. FUSE AND FUSE HOLDER
6. INTERLOCK SWITCHES
7. IGNITION SWITCH
8. BATTERY

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TRANSMISSION ASSEMBLY (3 SPEED)

EXPLODED VIEW

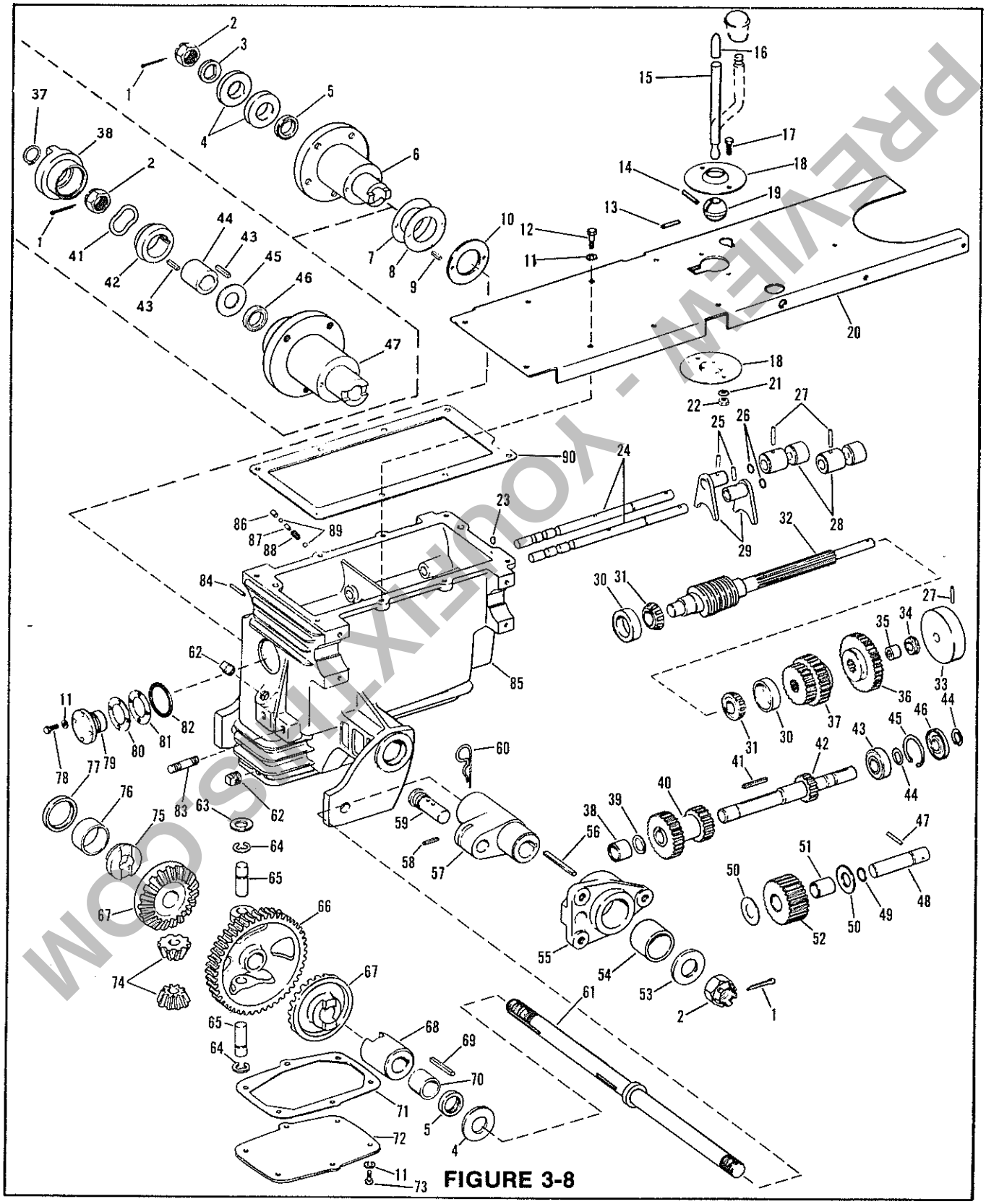


FIGURE 3-8

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TRANSMISSION ASSEMBLY PROCEDURE
(3 SPEED)

1. **REVERSE IDLER:** Liberally grease, then install O-Ring (1) into groove on Shaft (2). Insert Bronze Bearing (3) into Idler Gear (4). Position Idler Gear (4) (CHAMFERED TOOTH SECTION TOWARD FRONT) with a Thrust Washer (5) on each side, into cavity of Gear Case. Insert end of Shaft (2) through outer bore of Gear Case. Slide Shaft through Idler Gear (4) and into rear bore. Index exposed cross hole in Shaft (2) with pin hole in front end boss of Gear Case. Install Roll Pin (6).

2. **INPUT SHAFT:** Install Needle Bearing (7) into rear bore of Gear Case. Position Cluster Gear(8) into cavity of Gear Case. Install Key (9) into keyway on Input Shaft (10) and insert long end of Shaft through front bore of Gear Case, through Cluster Gear. Position complete assembly, so that Retaining Ring (11) may be installed to Shaft. Install Ball Bearing (12) over Shaft and into front bore of Gear Case. Install Retaining Ring (13), Retaining Ring (14), Oil Seal (15) and Retaining Ring (16) in that order.

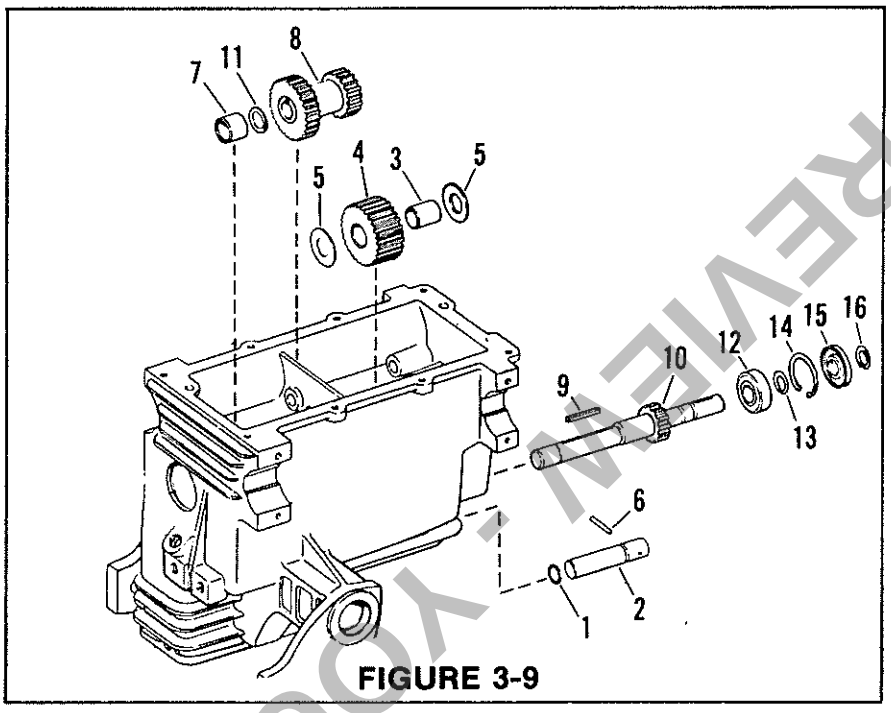


FIGURE 3-9

3. **AXLE SHAFT:** Install Timken Bearing Cup (17) into Gear Case divider wall (THIS STEP IS MORE DIFFICULT AFTER WORM WHEEL HAS BEEN INSTALLED). Install Bronze Bearing (18) into **left hand** Axle casting bore. Slide left hand end of Axle Shaft (19) through **right hand** Axle bore (ONLY PARTIALLY INTO CASE). Assemble differential with Bevel Pinions (20), Pinion Shafts (21), Worm Wheel (22), Washer (23) and Retaining Rings (24). Insert Drive Hub (25), Bevel Gear (26), Differential Assembly (22), Bevel Gear (27) and Coupling (28) into rear Gear Case cavity while threading Axle through the Assemblies to the left hand Bronze Bearing. Install Key (29) to Axle keyway and continue to slide Axle to the left to approximate fianl position. Slide Oil Seal (30) over Axle and install in **Left Hand** Axle bore. Install Oil Seal (31) into Axle bore.

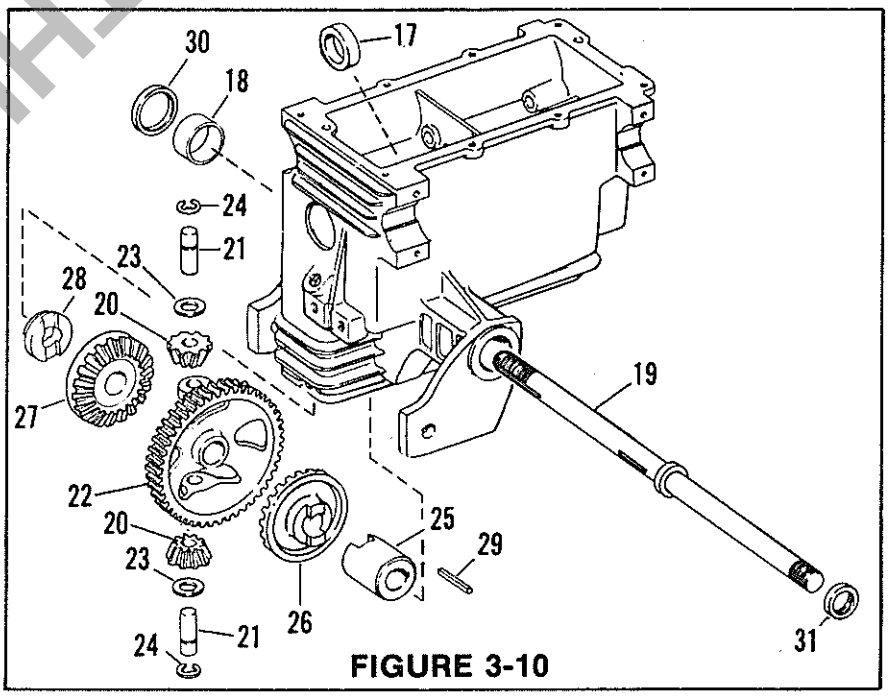


FIGURE 3-10

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TROUBLE SHOOTING GUIDE

ELECTRIC START MODELS

PROBLEM	PROBABLE CAUSE	REMEDY
Starter Motor does not energize	1. P.T.O. engaged	1. Disengage P.T.O.
	2. Brake pedal not depressed or on 1225 transmission, not locked.	2. Depress brake pedal and lock, or lock transmission.
	3. Corroded or loose electrical connections	3. Clean and tighten
	4. Discharged battery	4. Locate problem and recharge
	5. P.T.O. interlock, brake interlock, seat interlock. Transmission interlock, ignition switch, not functioning.	5. Check and replace if necessary
	6. Solenoid not operating.	6. Check and replace if necessary
Starter Motor turns engine too slow	1. Weak or partially discharged battery.	1. Check battery charge or replace if necessary.
	2. Corroded or loose electrical connections.	2. Clean and tighten
	3. Starter sheave spins in belt.	3. Check belt tension. Adjust per manual.
Battery discharges rapidly	1. Low water level	1. Check and refill
	2. Low or no output from alternator	2. Check output and repair if necessary
	3. Short in electrical system	3. Check out and repair
Battery will not charge	1. Dirt and moisture on case	1. Clean case
	2. Corroded or loose battery terminals	2. Clean and tighten
	3. Battery not functioning properly.	3. Replace battery
	4. No alternator output	4. Check out alternator and repair or replace
	5. Regulator not functioning.	5. Check out regulator, replace if necessary
Lights not operating	1. Bulbs burned out	1. Replace bulbs
	2. Loose or poorly connected wire	2. Install properly and tighten
	3. Circuit breaker not functioning.	3. Check out circuit breaker, replace if necessary.

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SPECIFICATIONS

ENGINE

Manufacturer	BRIGGS & STRATTON	
Model/Spec	142302-019801	Model 600 (180)
	142301-019701	Model 600 (181)
	146402-014801	Model 650 (184)
	146401-014701	Model 650 (185)
	170402-013001	Model 750 (171)
	170401-013101	Model 750 (172)
	190401-013901	Model 853
	190417-090201	Model 855 (G-9)
	251417-015501	Model 1055 (G-10)
	252417-013201	Model 1155 (G-11)
Type	All Models	Horz. shaft, air cooled, 1 cyl., 4 cycle
Bore and Stroke	142302, 142301, 146402 & 146401	2-3/4 × 2-3/8
	170402 & 170401	3 × 2-3/8
	190401	3 × 2-3/4
Piston Displacement	142302, 142301, 146402, & 146401	14.1 Cu. In.
	170402 & 170401	16.79 Cu. In.
	190401	19.44 Cu. In.
Mfr's H.P. Rating	142302, 142301, 146402 & 146401	6 H.P. @ 3600 RPM
	170402 & 170401	7 H.P. @ 3600 RPM
	190401 & 190417	8 H.P. @ 3600 RPM
	251417	10 H.P. @ 3600 RPM
	252417	11 H.P. @ 3600 RPM
Crankshaft Extension	All Models	1.000/.9995 Dia × 2-29/32
Air Cleaner	All Models	Oil Bath or Oil Foam
Oil Capacity	All Models	2-3/4 pints
Gasoline Capacity	All Models	4 quarts
Governor	142302 & 142301	Air Vane
	146402, 146401, 170402, 170401, 190401, 190417, 251417 & 252417	Mechanical
Speed Control	All Models	Remote, cable operated
Spark Plug	All Models	Champion RCJ-8 or equivalent
Spark Plug Gap	All Models	.030
Point Gap	All Models	.020

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MAINTENANCE CHART

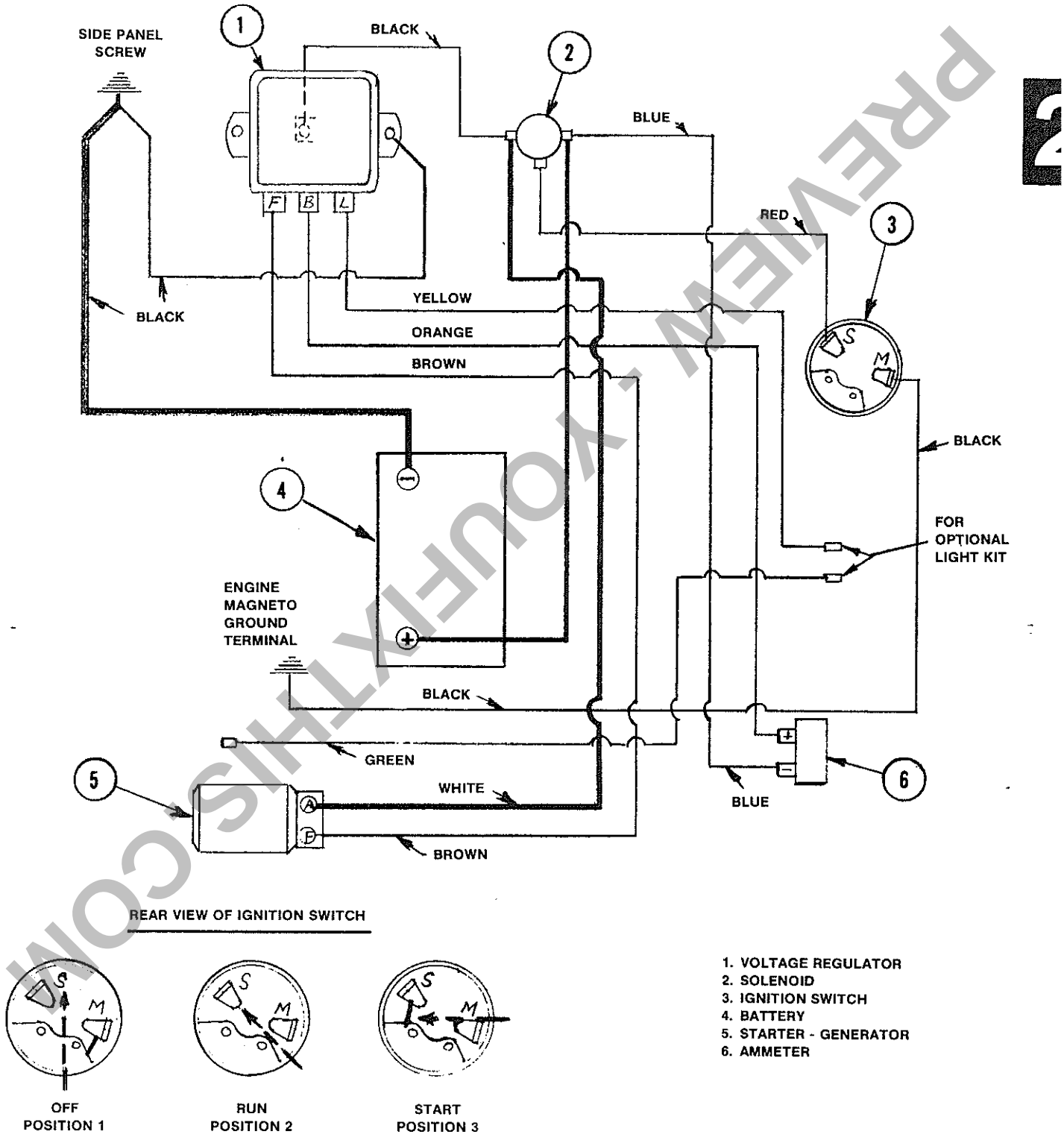
MAINTENANCE REQUIRED	Length of Operation	Type of Maintenance
Engine Cooling Air Screen —	Daily or 8 Hrs.*	Brush Clean
Engine Air Cleaner —	Daily or 8 Hrs.*	Shake out dirt-dry type
		Wash — "OIL FOAM"®
	When no longer serviceable	Replace
Cooling Fins — (Engine) —	Daily or 8 Hrs.	Clean — Use Air Hose if Available
Spark Plugs —	100 Hrs.	Service or Replace
Breaker Points — (Battery Ignition) —	100 Hrs.*	Service or Replace
Ignition Timing — (Battery Ignition) —	100 Hrs.*	Adjust
Fuel Filter —	100 Hrs.*	Clean
Battery —	Daily	Check Water Level — Add As Necessary
Hydrostatic and Rear Axle Fins — (Hydrostatic Models)	Daily or 8 Hrs.*	Clean — Use Air Hose if Available
Belts —	50 Hrs.*	Check for Wear and Adjust
Tires —	25 Hrs.	Check for Damage and Air Pressure
Transmission Filter — (Hydrostatic) —	After First 10 Hours then After Every 200 Hours or with oil change	Change and Add Oil to Bring to Operating Level
Brake —	50 Hrs.*	Adjust Linkage
Rear Axle —	50 Hrs.*	Adjust End Play

*More often under extreme conditions.

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WIRING DIAGRAM - 750 (172)
MAGNETO IGNITION



1. VOLTAGE REGULATOR
2. SOLENOID
3. IGNITION SWITCH
4. BATTERY
5. STARTER - GENERATOR
6. AMMETER

FIGURE 2-2

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TRANSMISSION ASSEMBLY (6 SPEED)

EXPLODED VIEW

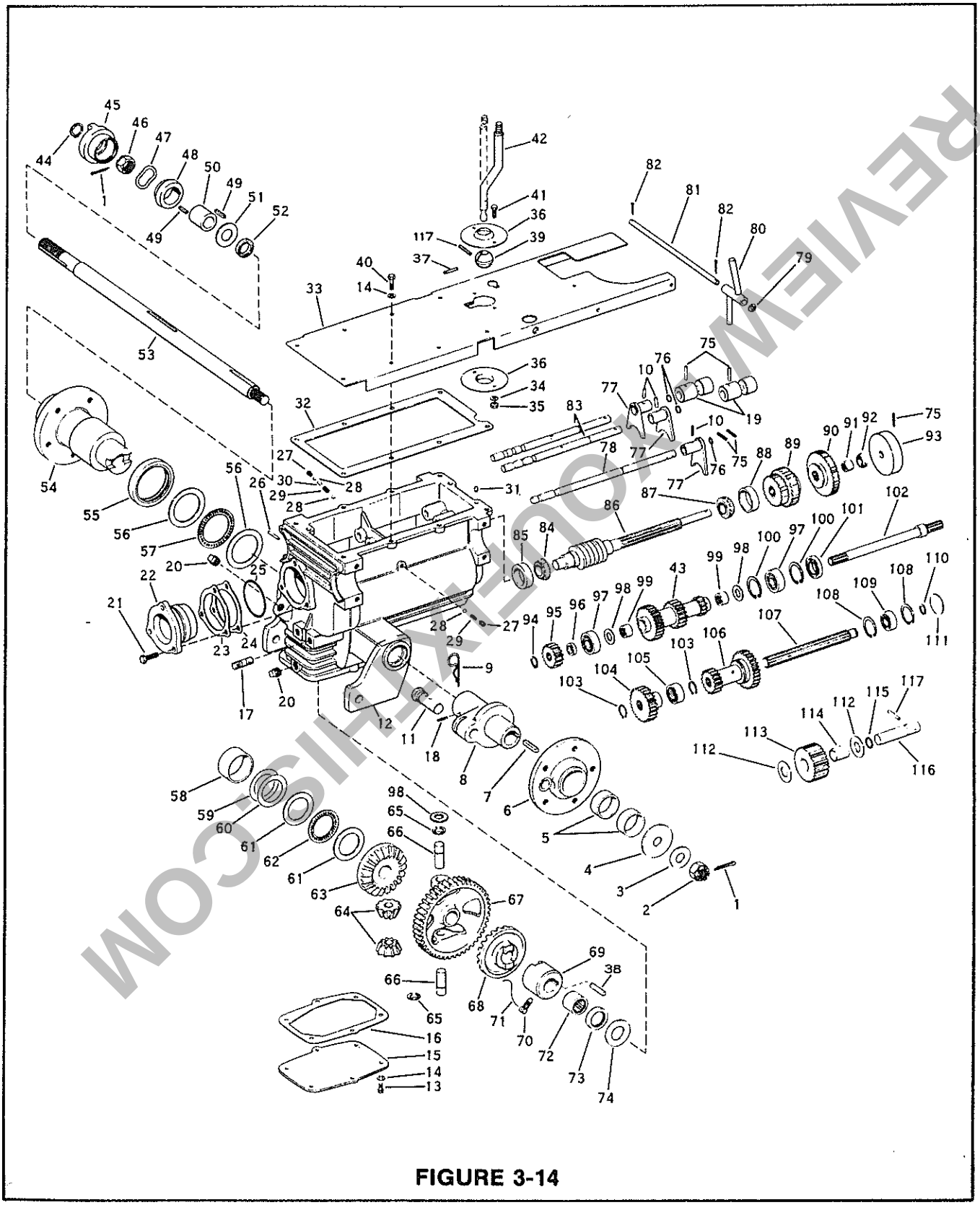


FIGURE 3-14

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