

**TROY-BILT®/Boiens.**

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**Service and Repair  
Manual**

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**Suburban Tractor  
Series**

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**ENGINE SPECIFICATIONS**

<b>ENGINE</b>	<b>13023</b>	<b>13024</b>	<b>13025</b>
<b>MANUFACTURER</b>	Kohler	Kohler	Kohler
<b>MODEL/SPEC. NUMBER</b>	CV12.5S/PSS1259	CV12.5S/PSS1259	CV12.5S/PSS1259
<b>TYPE</b>	OHV	OHV	OHV
<b>BORE X STROKE</b>	3.43 x 2.64 (87 x 67 mm)	3.43 x 2.64 (87 x 67 mm)	3.43 x 2.64 (87 x 67 mm)
<b>DISPLACEMENT</b>	24.3 cu. in. (398 cu. cm.)	24.3 cu. in. (398 cu. cm.)	24.3 cu. in. (398 cu. cm.)
<b>MANUFACTOR'S H.P RATING</b>	12.5 HP @ 3600 RPM	12.5 HP @ 3600 RPM	12.5 HP @ 3600 RPM
<b>IGNITION</b>	Electronic	Electronic	Electronic
<b>AIR CLEANER</b>	Installed dual element	Installed dual element	Installed dual element
<b>OIL CAPACITY w/filter</b>	4 Pts. (1.9 L)	4 Pts. (1.9 L)	4 Pts. (1.9 L)
<b>OIL FILTER</b>	Yes	Yes	Yes
<b>GOVERNOR SETTING</b>	Mechanical	Mechanical	Mechanical
<b>SPEED CONTROL</b>	Remote, cable operated	Remote, cable operated	Remote, cable operated
<b>SPARK PLUG</b>	Resistor type	Resistor type	Resistor type
<b>SPARK PLUG GAP</b>	0.03" (.76 mm)	0.03" (.76 mm)	0.03" (.76 mm)

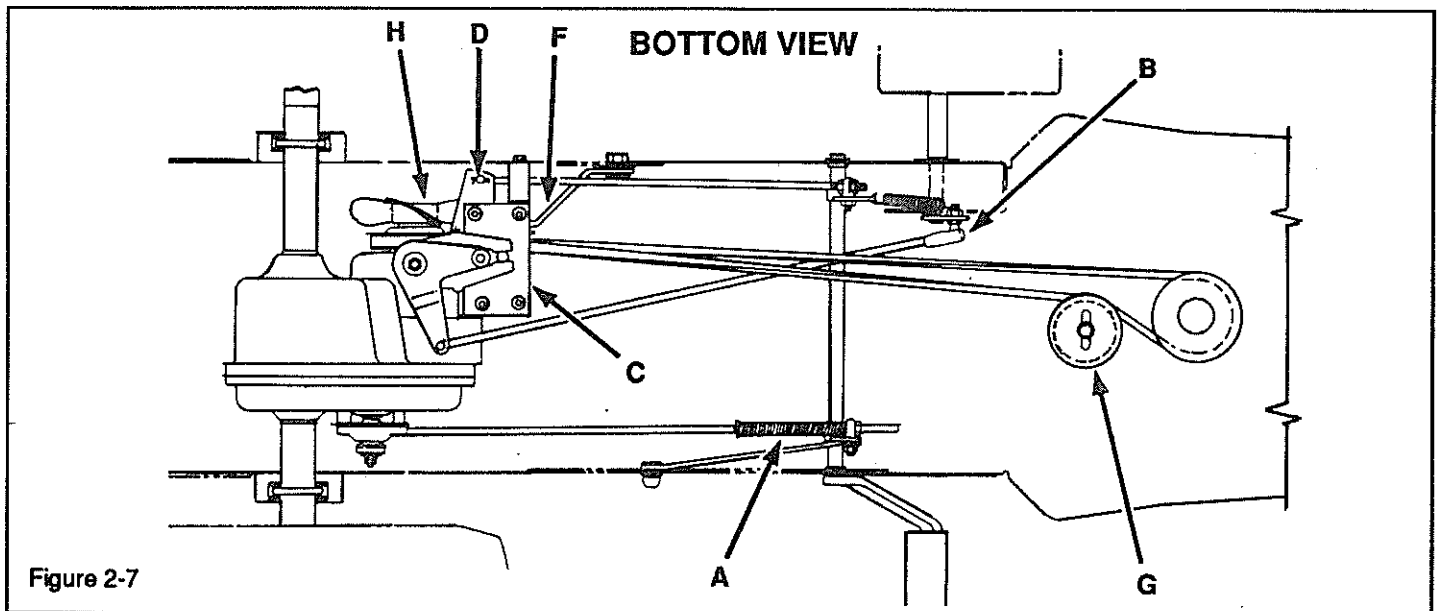


Figure 2-7

**c. Hydrostatic Neutral Adjustment**

1. If a tractor creeps when foot pedal is in neutral position, adjust as follows:
  - a. Securely block up rear of tractor so that the rear wheels clear the ground.
  - b. Adjust support plate (C, Figure 2-7) side to side until wheels do not rotate.
  - c. Re-tighten the plate.

**d. Neutral Return Adjustment**

Every time the brake pedal is pressed the transmission should return to neutral. If not, adjust as follows:

1. Lock brake pedal in park position.
2. Adjust rod (D, Figure 2-7 and 2-8) until control pin (E) of neutral plate (D) is in slot. Make sure plate is free of all binding.

**e. Hydrostatic Belt Adjustment**

Idler arm (F) should always be parallel with lower edge of frame. If not, relocate adjustable idler (G, Figure 2-7). See also Figure 2-9.

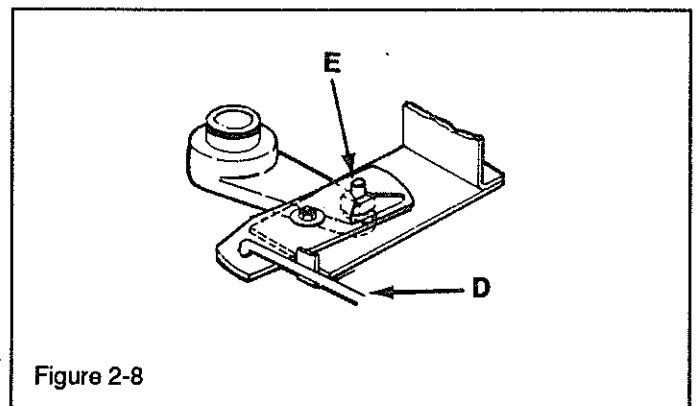
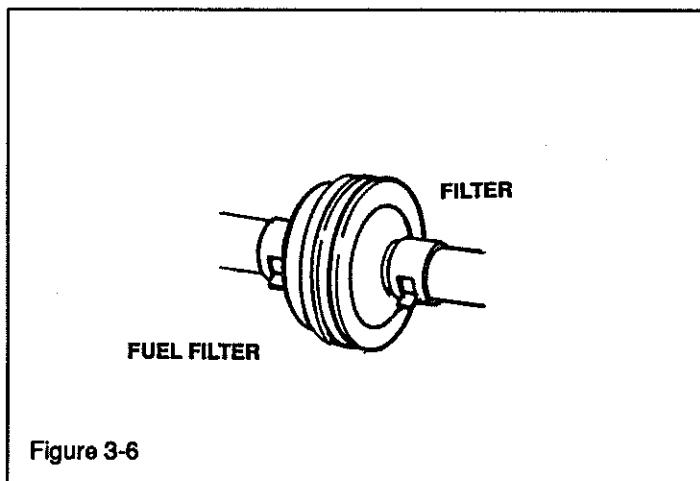
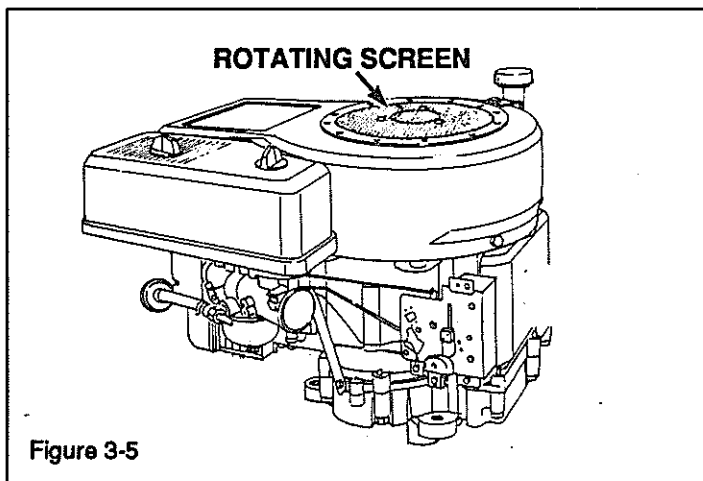


Figure 2-8

**4. DRIVE BELT REMOVAL AND INSTALLATION (HYDROSTATIC DRIVE)**

- a. Removal:
  1. Cut and remove the old drive belt.
- b. Installation:
  1. Loosen electric clutch locating retainer (A, Figure 2-11).
  2. Loosen belt guides (N).
  3. Remove ball joint (G).
  4. Route V-belt up and over fan and then down, until it rests in the drive sheave. Figure 2-10. It will be necessary to bend belt guides (O) back when installing, Figure 2-5.



- b. After completely draining oil, re-install drain plug.
- c. Remove oil filler cap. Refill with oil. See chart (Figure 3-1) for oil type and grade data.
- d. Check the oil level on the dipstick before adding more oil. Bring the oil level up to the safe range but do not exceed the 'Full' mark.

### 3. Spark Plug

Every 100 hours, remove the spark plug. Check condition and reset at .030 inch (.762 mm) or replace plug if necessary. See Figure 3-3. See engine specifications charts in Section I. Good operating conditions are indicated if plug has a light coating of gray or tan deposit. A dead white, blistered coating could indicate overheating. A black (carbon) coating may indicate an over-rich fuel mixture caused by a clogged air cleaner or an improperly adjusted carburetor. Do not service a plug which is in poor condition. Best results are obtained with a new plug.

**NOTE: Do not clean spark plugs in cleaning machines which use abrasive materials. Spark plugs should be cleaned by scraping, wire brushing and washing with a commercial solvent.**

### 4. Remove Cylinder Head Combustion Deposits

Every 100 to 300 hours of operation, remove combustion deposits. See engine manual.

### 5. Clean Cooling System

Grass, chaff, or dirt may clog the rotating screen and the air cooling system, especially after cutting tall and dry grasses. See Figure 3-4. Annually, or every 100 hours (whichever comes first), remove the blower housing. Clean the areas shown to avoid overheating and engine damage. Clean more often if necessary.

Grass or chaff may clog the rotating screen, especially during prolonged operation when cutting tall grass. Clean the area shown, Figure 3-5, as often as needed to prevent overheating and engine damage.

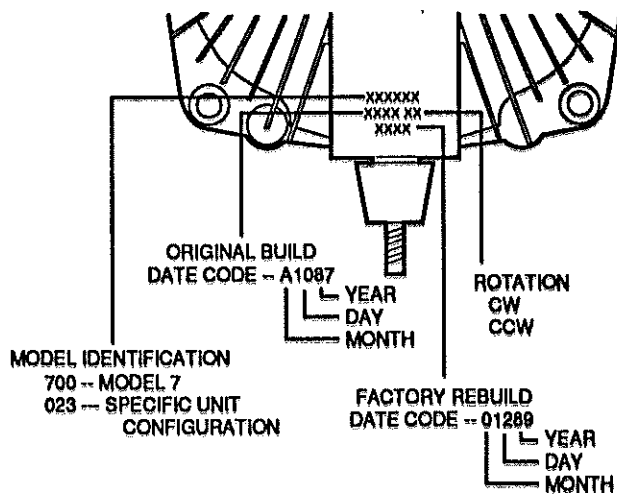
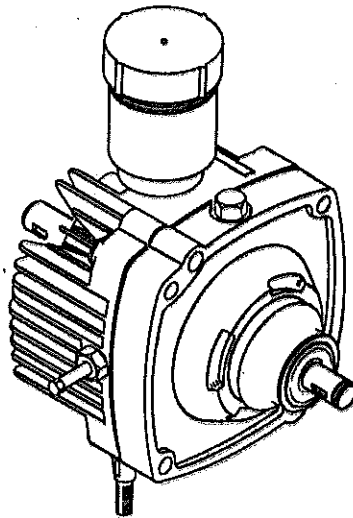
**HYDROSTATIC DRIVE TRANSAXLE**

**Identification Information:**

3 different types of Eaton transmissions are used.  
Determine which transmission is installed on your unit by

studying the chart '3000 Series Transmissions' on pages  
1-16 and 5-1 or by the illustrations on p. 5-4 to 5-7.

**EATON 7**



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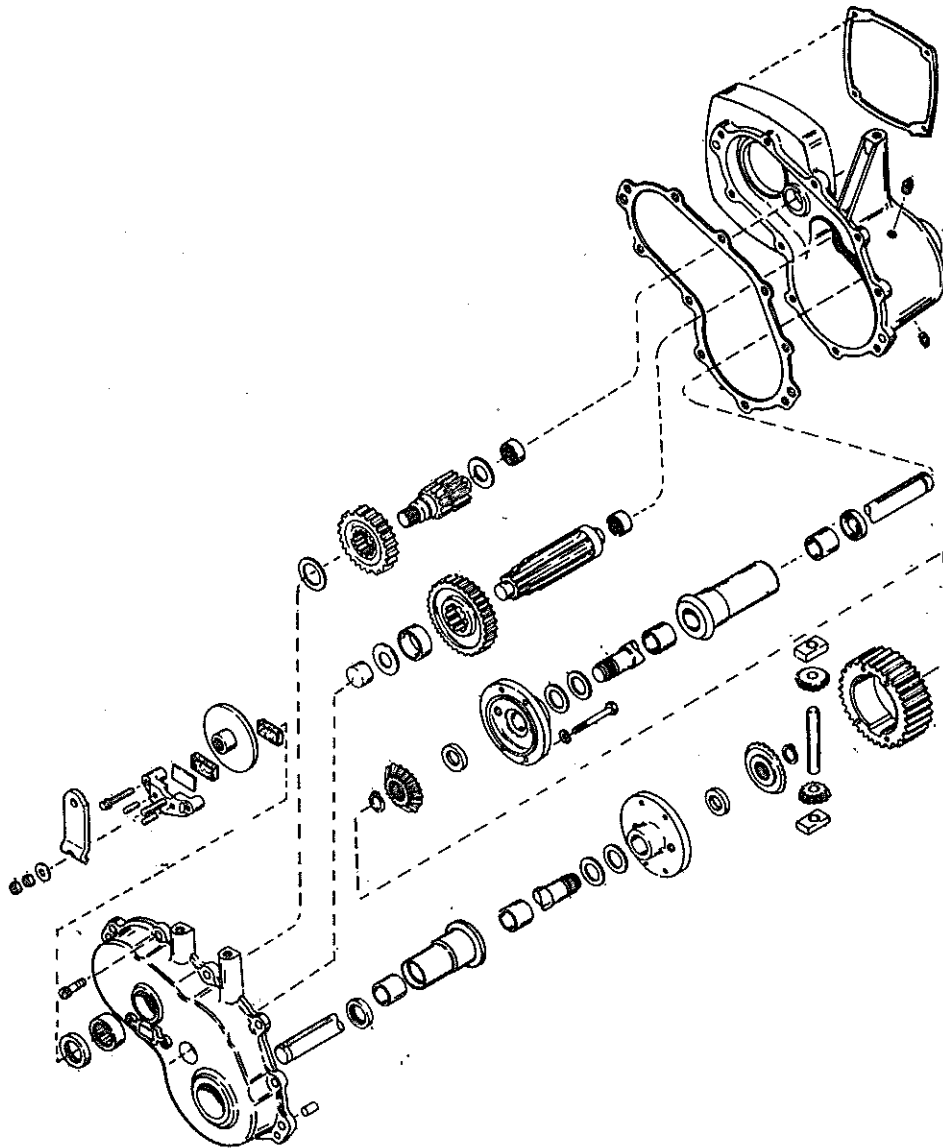


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## MOWER DECKS (continued)

8. From the top of the spindle, install sheave, 7/16-18 x 1 bolt lockwasher and washer. Torque bolt to 35 ft. lbs.
9. Install blade, bevel washer lockwasher and bolt from the bottom. Torque bolt to 35 ft. lbs.

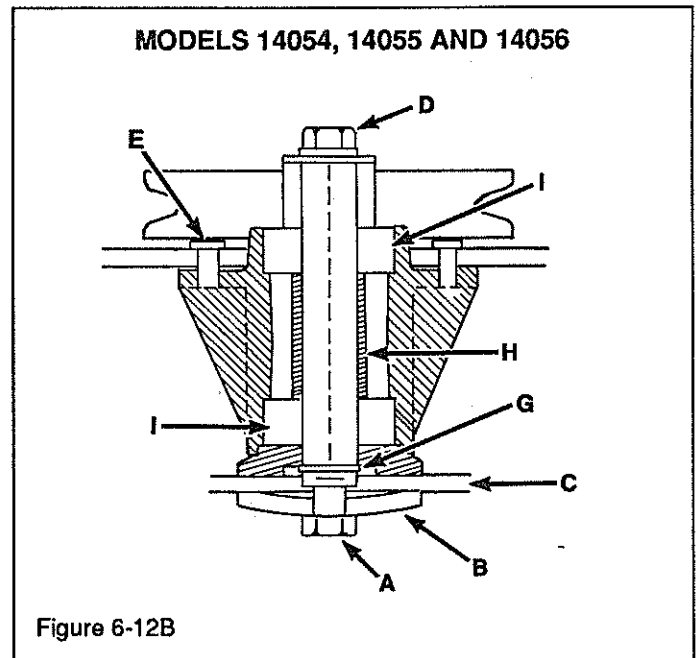
**NOTE: Bottom and top spindle bolts must be torqued to 35 ft. lbs.**

**16. LUBRICATION**

There are grease fittings on the mower; beneath the mower deck on spindle housing. Lubricate these grease fittings after every 100 hours of operation with multi-purpose grease and grease gun.

Frequently lubricate the slide points on linkage, gage rollers and other pivot points with a few drops of lubricating oil. Always lubricate deck after washing.

- a. Every 25 hours:
  1. Oil gage wheel axles.
  2. Oil idler pulleys and pivots.
  3. Oil lift rollers.
  4. Oil all moving parts.



**POWER PACKER PLUS****POWER PACKER PLUS****1. BLOWER REMOVAL**

- a. Remove wing nuts and washers (A, Figure 6-23) securing belt guard (B) to blower housing. Remove the belt guard.
- b. Loosen belt adjuster by loosening hex nut (H) and jam nut on capscrew (C, Figure 6-24), and hex nut (H).
- c. Remove belt from pulleys.
- d. Unhook rubber latch (X, Figure 6-25) and remove chute assembly.
- e. Remove the 4 nuts (E) from blower housing (F) and support bracket (G). Blower housing should now be loose.

**2. BLOWER DISASSEMBLY**

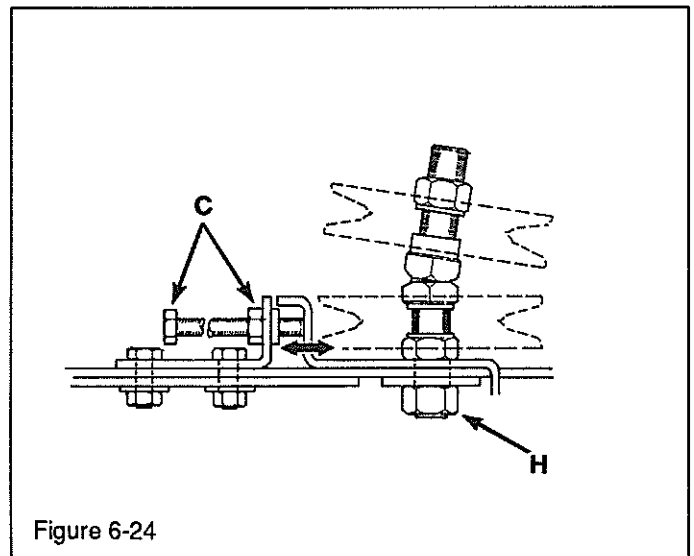
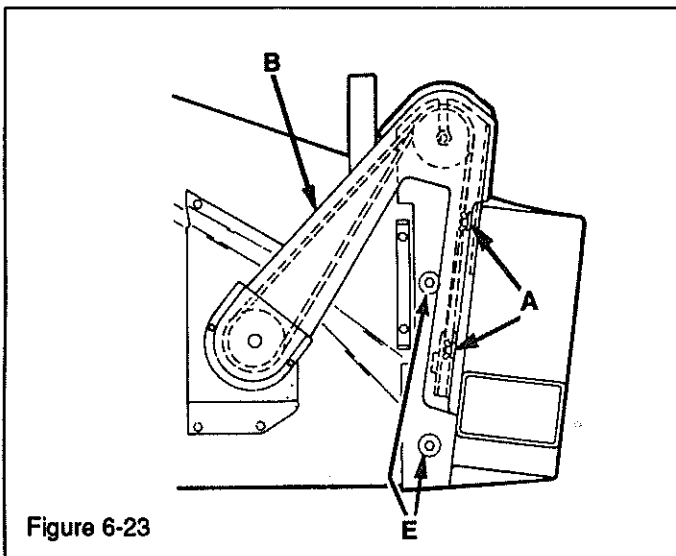
- a. Remove mounting frame (H, Figure 6-26) from blower housing (F).
- b. Remove pulley (I, Figure 6-26) and keys from impeller shaft (J).
- c. Remove bearing flanges and bearings (K) from blower housing (F).

- d. Remove impeller shaft (J) by driving through either side of blower housing.
- e. Remove inner bearing flange (L) from blower housing.
- f. Remove impeller fan (M) by prying through opening of blower housing. Fan should be indexed with opening as shown. If necessary, apply heat (with a heat gun) at location (N) to make housing more pliable.

**WARNING!**

**WHEN USING A HEAT GUN OR ANY ELECTRICAL APPLIANCE, DO NOT STAND IN PUDDLES OR ON DAMP GROUND. ONLY USE AN ELECTRICAL CORD AND OUTLET WHICH IS PROPERLY GROUNDED. FOLLOW INSTRUCTIONS SPECIFIED BY THE APPLIANCE MANUFACTURER.**

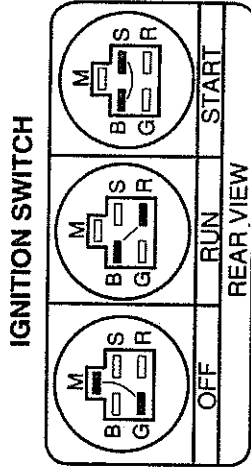
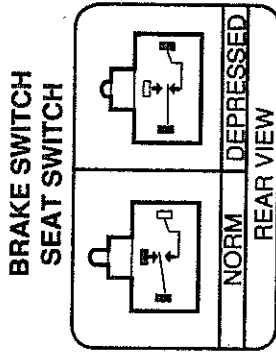
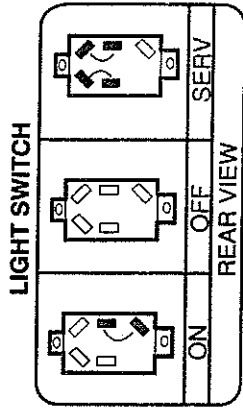
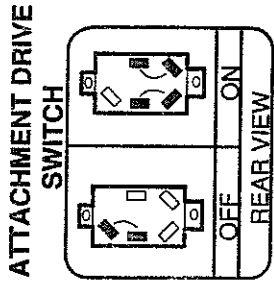
- g. Remove outer bearing flange (O).



# WIRING DIAGRAM 1

WIRE COLOR CODE	
B	Black
BL	Blue
O	Orange
P	Purple
R	Red
W	White
Y	Yellow
GN	Green
BR	Brown
GR	Gray
R/W	Red/White
R/B	Red/Black
R/Y	Red/Yellow
W/B	White/Black

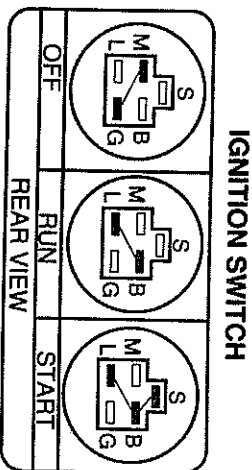
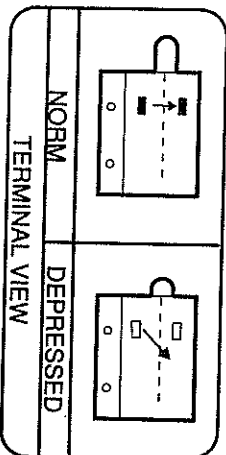
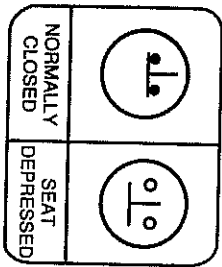
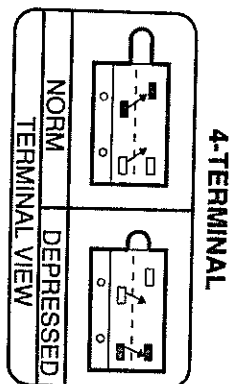
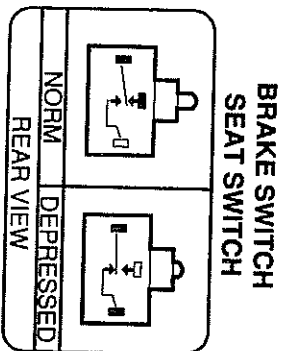
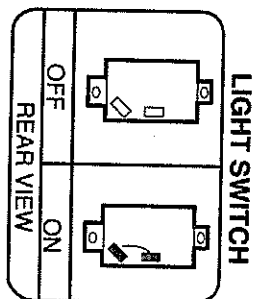
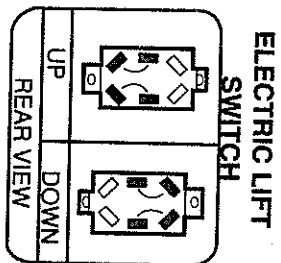
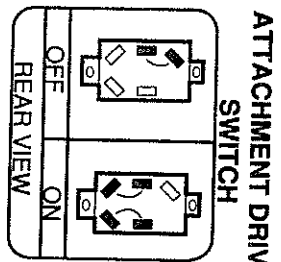
ITEM CODE	
1	Magneto
2	Alternator
3	Fuel Solenoid
4	Headlights
5	Attachment Clutch
6	Diode Assembly
7	Starter
10	Connector
11	Battery
12	Fuse
13	Start Solenoid
14	Seat Switch
15	Brake Switch
16	Headlight Indicator
17	Key Switch
18	Light Switch
19	Attachment Switch
20	Attachment Light
21	Start Light
22	Voltage Sensor
23	Voltage Sensor Light
24	Ammeter
25	Hourmeter (Optional)
26	Capacitor
27	Diode
29	Accessory Socket
30	Accessory Plug
31	Cruise Light
32	Cruise Switch
33	Cruise Relay
34	Cruise/Brake Switch
35	Cruise Magnet
38	Electric Lift Switch
39	Electric Lift Motor
40	Hydrostatic Temp. Sensor
41	Hydrostatic Temp. Light
42	Engine Oil Sensor
43	Engine Oil Light
44	Tachometer



# WIRING

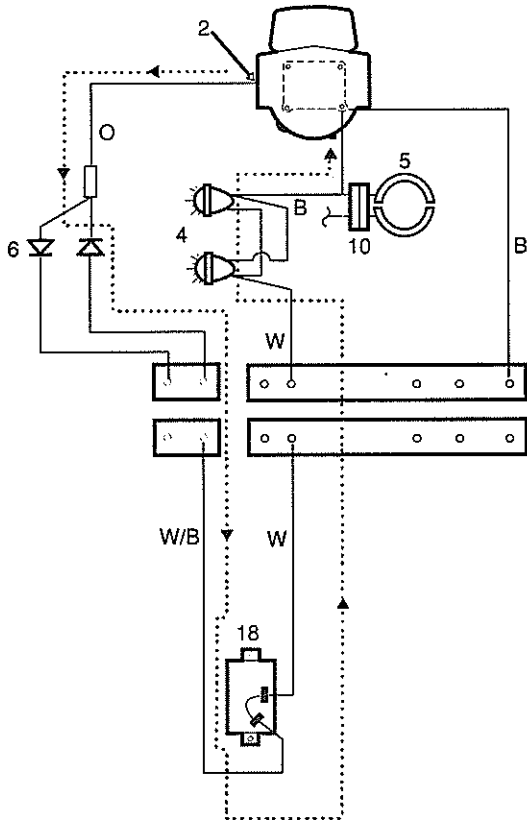
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23	Voltage Sensor Light
24	Ammeter
25	Hourmeter (Optional)
26	Capacitor
27	Diode
29	Accessory Socket
30	Accessory Plug
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32	Cruise Switch
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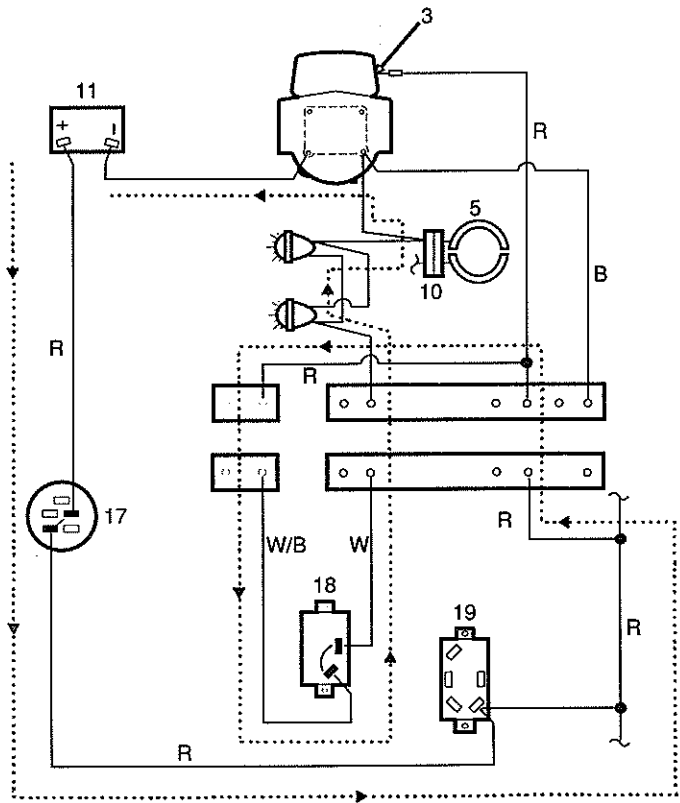


L2 AND L3 (DC LIGHT AND AC LIGHT CIRCUITS)

L3: CIRCUIT DIAGRAM (AC LIGHT)



L2: CIRCUIT DIAGRAM (DC LIGHT)



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