

## INTRODUCTION

### DESCRIPTION

The electrical system is a 12-volt negative (-) ground system consisting of five wiring harnesses and an optional hydrostatic transmission speed control.

### COMPONENT LOCATION AND FUNCTION

1. **Battery**—located under the hood, in front of the radiator.
2. **Main Fuse (30 amp)**—located on the left side of the engine compartment fire wall, or starter wiring harness; controls current flow for the entire tractor.
3. **Fuse Block**—located on the right side of the engine compartment fire wall; controls current flow for individual circuits.
4. **Relay-Diode Panel**—located under the instrument panel on the right rear side panel.
5. **Key Switch**—located on the right side of the operator's console.
6. **Safety Start Switches**—range gear (A), rear (B), and mid PTO (C); located under the left fender; allow tractor to start with the transmission and PTO disengaged.
7. **Headlights**—located on the front grill; TC Deluxe and 30 Series tractors have four headlights; TC Economy and 25 Series tractors have two headlights.
8. **Taillights**—located in the rear of both fenders on TC Deluxe and 30 Series; located on the top portion of the left hazard light for TC Economy and 25 Series.
9. **Hazard Flashing Lights**—located on both sides of the roll bar; these amber-colored lights provide warning during transportation and emergency.
10. **Flasher Relay**—located on the right side of dash (30 Series), under instrument panel. (TC Deluxe only).
11. **Cruise Control Relay**—located under the instrument panel on the right rear side panel. (TC Deluxe and 30 Series).
12. **Instrument Panel**—located in the center of the dash; monitors tractor functions.
13. **Light Switch**—located on the right side of the dash; controls current to front and rear lights.
14. **Hazard Switch**—On right side of instrument panel, 30 Series and TC Deluxe. Button switch on right side hazard light for 25 Series and TC Economy.
15. **Starter**—located to the left side of the engine; rotates the engine for starting.

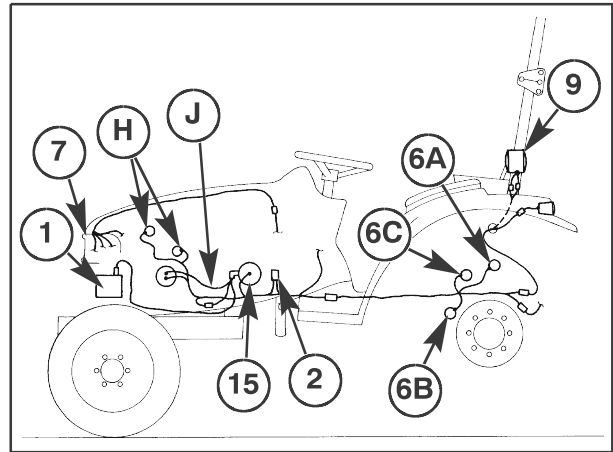


Figure 3-1

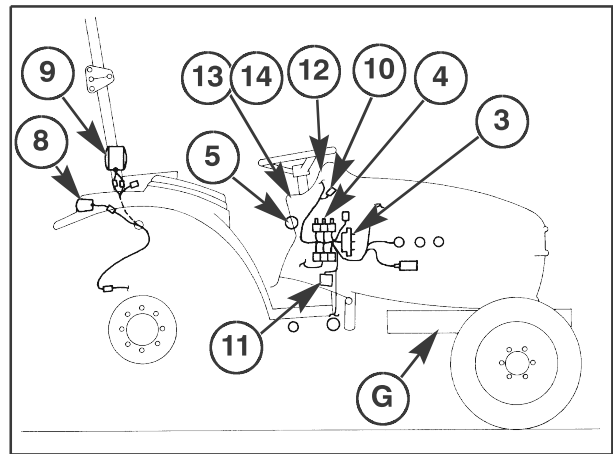


Figure 3-2

16. **Alternator**—provides current flow to the battery; left side of engine.
17. **Engine Oil Pressure Sending Unit**—located in front of the cylinder head; provides warning of low engine oil pressure.
18. **Engine Coolant Temperature Sending Unit**—located in the thermostat housing on the front left side of the engine; warns when engine operating temperature reaches a high level.
19. **Fuel Level Sending Unit**—located inside the fuel tank; sends a signal indicating fuel level to the instrument panel.
20. **Fuel Shutoff Solenoid**—located on the right side of the engine; shuts off fuel flow to the injection pump to stop the engine.
21. **Glow Plugs (3)**—located on the right side of the cylinder head, adjacent to the fuel injectors; aid in engine startup by warming the air in the combustion chamber.
22. **Parking Brake Switch** (30 Series and TC Deluxe)—located under the right platform; actuates with the parking brake mechanism; warns the operator that the parking brake is engaged.
23. **Brake Release Switch** (H.S.T.)—standard on the 30 Series and TC Deluxe; optional on the 25 Series; located under the right platform near the brake pedal pivot shaft; releases the H.S.T. speed control when the brakes are applied.
24. **H.S.T. Speed Control Switch**—located on the left side of the dash; controls current to the speed control magnet.
25. **H.S.T. Control Magnet**—located on the left side of the steering column; locks the H.S.T. linkage in place to set constant transmission speed.
26. **Optional Rear Work Light (50 Watt Halogen)**—located on the right side of the roll bar; power leads for the light are provided by the right fender wiring harness.

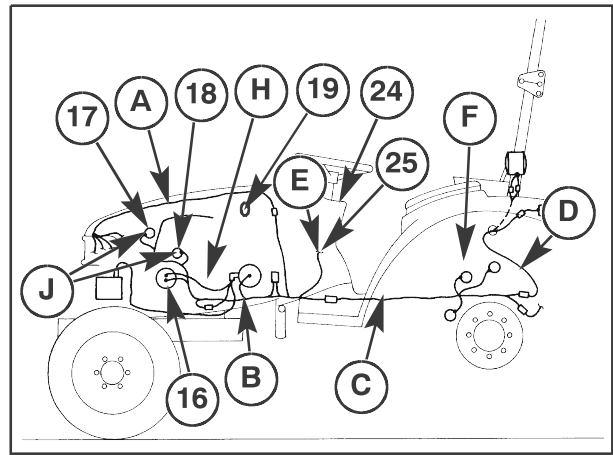


Figure 3-3

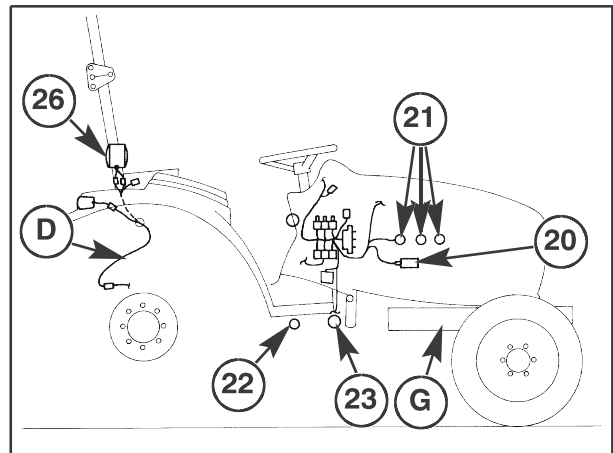


Figure 3-4

### WIRING HARNESSES

- A. Hood
- B. Main
- C. Rear
- D. Right Fender/Left Fender
- E. Speed Control

### GROUNDS

- F. Left side behind rear tire on HPL housing
- G. Right side front frame
- H. Left side of engine
- J. Block