NEW HOLLAND

Yard Tractors
LS Series

REPAIR
MANUAL
SUPPLEMENT



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SECTION 2 - ELECTRICAL

Chapter 1

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Chapter 1

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Low Fuel Indicator Circuitry (LS55 Only)

1. Current flows from the positive (+) battery terminal, through the battery cable to the 30 Amp main fuse (F1) to terminal "B" of the key switch (SW4).
2. When the key switch is turned to the "Start", "Run" or "Run/Lights" position, current is transferred from the "B" terminal (terminal 5) to the "I" terminal.
3. Current exits the "I" terminal of the key switch and travels through a wire splice to the 10 Amp fuse (F3) located in the fuse block. From the 10 Amp fuse, current flows to terminal "A" of the indicator light panel wire harness. Current enters the indicator light panel and reaches the low fuel lever indicator light.
4. The fuel level switch (SW9) which is mounted in the fuel tank controls the ground path to the low fuel level indicator light. If the fuel level falls to approximately one pint, the fuel level switch closes and completes the ground path. The ground path is completed from terminal "A" of the indicator light panel wire harness, through the wire harness to the right side of the engine block, allowing the low fuel indicator light to illuminate.

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Low Oil Pressure Indicator Circuitry (LS35, LS45, LS55, and optional for LS 25)

1. Current flows from the positive (+) battery terminal, through the 30 Amp main fuse (F1), to terminal "B" of the key switch (SW4).
2. When the key switch is turned to the "Run" or "Run/Lights" position, current crosses from the "B" terminal to the "I" terminal.
3. Current exits the "I" terminal of the key switch and travels to the 10 Amp fuse (F3) located in the fuse block. From the 10 Amp fuse, current flows to terminal "A" of the indicator light panel wire harness. Current enters the indicator light panel and passes through a wiring harness to reach the low oil pressure indicator light.
4. The ground path to the low oil pressure indicator light is controlled by the oil pressure sending unit that is mounted to the front of the engine. If the engine oil pressure falls below 6 psi (0.408 bar), the oil pressure sender closes and completes the ground path, causing the indicator light to illuminate.

IMPORTANT: *Stop the engine immediately if the low oil pressure indicator light illuminates while the tractor engine is running. Correct the cause of the low oil pressure indicator light before resuming use of the tractor.*

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Tractor will operate in only one direction	1. Control linkage bent or out of adjustment 2. Drive belt slipping or pulley damaged 3. Directional check valve stuck open	1. Repair or replace linkage 2. Repair or replace drive belt or pulley 3. Clean/repair check valve
Unit is noisy	1. Oil level low or contaminated oil 2. Excessive loading 3. Brake setting incorrect 4. Bypass assembly sticking 5. Air trapped in hydraulic system	1. Fill oil to proper level or change oil 2. Reduce tractor loading 3. Adjust brake to proper setting 4. Repair or replace valve or linkage 5. Purge hydraulic system
Unit has no/low power	1. Engine RPM low 2. Control linkage bent or out of adjustment 3. Brake setting incorrect 4. Drive belt slipping or pulley damaged 5. Oil level low or contaminated oil 6. Excessive loading 7. Bypass assembly sticking 8. Air trapped in hydraulic system	1. Adjust engine RPM 2. Repair or replace linkage 3. Adjust brake to proper setting 4. Repair or replace drive belt or pulley 5. Fill oil to proper level or change oil 6. Reduce tractor loading 7. Repair or replace valve or linkage 8. Purge hydraulic system
Unit operating hot	1. Debris buildup around transaxle 2. Cooling fan damaged 3. Brake setting incorrect 4. Oil level low or contaminated oil 5. Excessive loading 6. Air trapped in hydraulic system	1. Clean off debris 2. Repair or replace cooling fan 3. Adjust brake to proper setting 4. Fill oil to proper level or change oil 5. Reduce tractor loading 6. Purge hydraulic system
Transaxle leaks oil	1. Damaged seals, housings, or gaskets 2. Air trapped in hydraulic system	1. Replace damaged components 2. Purge hydraulic system

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