D. Depress clutch/brake pedal and set parking brake and work traction drive belt off rear transaxle pulley. Push belt forward and remove belt completely from front engine pulley.

E. Unclip hood latches and remove capscrew at engine shroud holding hood restraint cable to engine. Disconnect green headlight wire at connector clipped to engine shroud on right side. (Fig. 6) Remove E-ring from one end of hood hinge pin. Pull hinge pin out and remove hood from tractor.

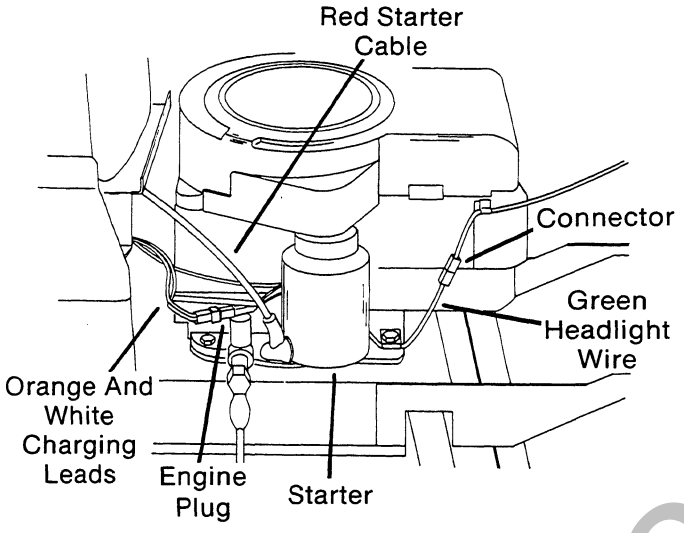


FIG. 6

F. Disconnect throttle cable at engine, by loosening throttle cable clamp screw enough so that cable can be removed. Disconnect cable end from throttle speed control block (Fig. 7)

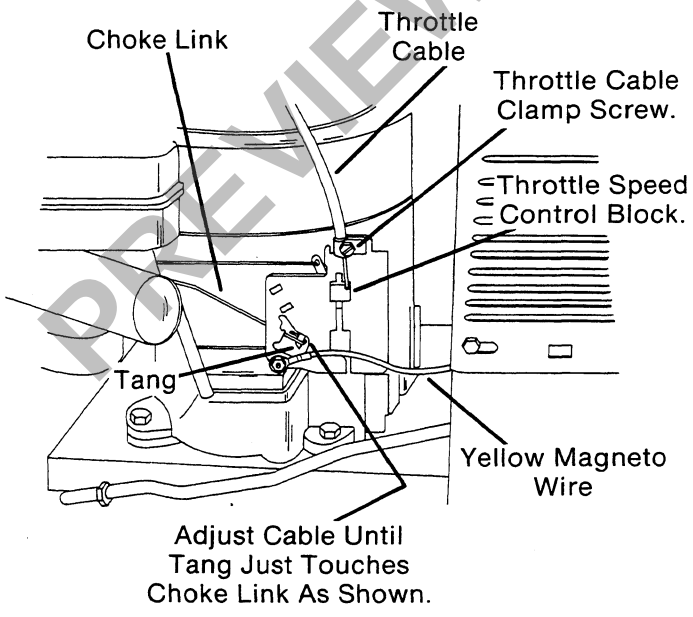


FIG. 7

G. Disconnect the following lead wires at engine:

a. Orange and white charging lead wires at engine plug on right side. (Fig. 6)

b. Red starter cable lead at starter on right side. (Fig. 6)

c. Yellow magneto wire at left rear corner next to throttle cable clamp screw. (Fig. 7)

H. Disconnect fuel line at fuel filter. (Fig. 8) Cap line to prevent leakage. Remove fuel filter from fuel line, inspect and replace filter per engine manufacturer's specifications.

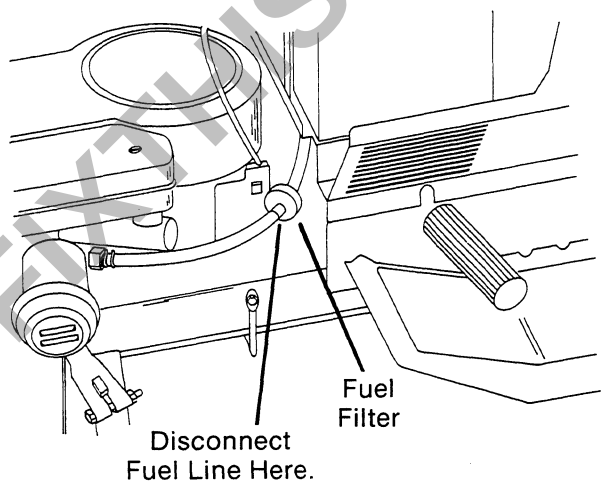


FIG. 8

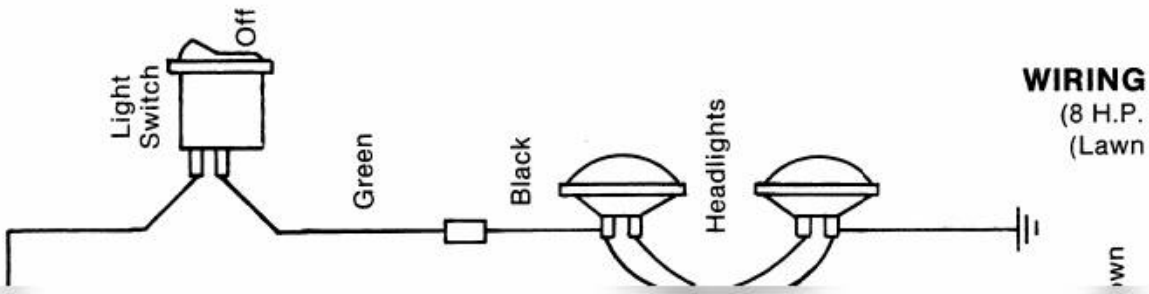
I. Turn steering wheel until front wheels are as far right as possible. Remove four capscrews holding engine to engine base assembly. Lift engine from tractor.

J. Service or replace engine as required per engine manufacturer's specifications.

K. Reverse above procedures to install engine until you reach the point of connecting throttle control cable. Then follow this adjustment procedure: Move throttle control lever up to the "FULL FAST" position (which is the detent before the "START" position is reached.) (Fig. 9) Attach end of throttle control cable to throttle speed control block and slip cable up until tang on speed control lever just touches choke link, as shown in (Fig. 7). Tighten throttle cable clamp screw. NOTE: Set belt guides to a maximum of ⅛" away from traction drive belt and transaxle pulley when brake/clutch pedal is fully depressed (ENGAGED).

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WIRING DIAGRAM
(8 H.P. & 11 H.P.)
(Lawn Tractors)

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TROUBLE-SHOOTING

PROBLEM	REMEDY	REFERENCE
Engine will not crank to start.	1. Check or recharge battery. 2. Check wiring connections. 3. Replace blown fuse. 4. Check ignition switch. 5. Check interlock switches. 6. Check solenoid. 7. Check starting procedure.	1. ELECTRICAL SYSTEM — BATTERY 2. ELECTRICAL SYSTEM — WIRING DIAGRAM 3. ELECTRICAL SYSTEM — FUSE 4. ELECTRICAL SYSTEM — IGNITION SWITCH 5. ELECTRICAL SYSTEM — INTERLOCK SWITCH 6. ELECTRICAL SYSTEM — SOLENOID 7. ELECTRICAL SYSTEM — SYSTEM FUNCTIONS
Engine turns over but fails to start.	1. Fill fuel tank. 2. Contact authorized engine dealer.	
Engine starts with foot pedal up or PTO lever engaged.	1. Check interlock switches. 2. Check for grounded wire. 3. Check for improper wiring.	1. ELECTRICAL SYSTEM — INTERLOCK SWITCH 2. ELECTRICAL SYSTEM — WIRING DIAGRAM 3. ELECTRICAL SYSTEM — WIRING DIAGRAM
Engine fails to stop.	1. Loose magneto wire. 2. Check for other loose wiring. 3. Check ignition switch.	1. ELECTRICAL SYSTEM — WIRING DIAGRAM 2. ELECTRICAL SYSTEM — WIRING DIAGRAM 3. ELECTRICAL SYSTEM — IGNITION SWITCH
Engine fails to stop with foot pedal up or PTO lever engaged with operator off seat.	1. Loose magneto wire. 2. Check for bad ground. 3. Check interlock switches.	1. ELECTRICAL SYSTEM — WIRING DIAGRAM 2. ELECTRICAL SYSTEM — WIRING DIAGRAM 3. ELECTRICAL SYSTEM — INTERLOCK SWITCH
No traction drive.	1. Release parking brake. 2. Check or replace traction belt. 3. Wrong belt being used. 4. Check belt routing. 5. Transaxle needs repair or replacement. 6. Check rear axle drive key.	2. TRACTION BELT REPLACEMENT 3. TRACTION BELT REPLACEMENT 4. TRACTION BELT REPLACEMENT 5. TRANSAXLE
Traction drive brake fails to engage.	1. Brake pads need adjustment or replacement. 2. Adjust brake control rod spring. 3. Check engagement linkage. 4. Wrong belt being used.	1. TRACTION DRIVE BRAKE — ADJUST — PAD REPLACE 2. TRACTION DRIVE BRAKE — ADJUST 4. TRACTION BELT REPLACEMENT
Traction drive brake engaged all the time.	1. Adjust brake control rod spring. 2. Brake pads need replacement.	1. TRACTION DRIVE BRAKE — ADJUST 2. TRACTION DRIVE BRAKE — PAD REPLACE

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PROBLEM	REMEDY	REFERENCE
Traction drive belt slips off transaxle pulley	1. Check and set belt fingers on flat idler V-idler and transaxle pulleys	1. TACTION BELT REPLACEMENT

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(Models 09GN-2101/2102/2104)

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IMPORTANT: The replacement of any part on this product by other than the manufacturers' authorized replacement part may adversely affect the performance, durability or safety of this product.

The manufacturer reserves the right to make changes on and to add improvements upon its products at any time without notice or obligation. The manufacturer also reserves the right to discontinue manufacture of any product at its discretion at any time.

Notice to Serviceman in the State of California — The engine on this unit is NOT equipped with a spark arresting muffler.

IMPORTANT: USE OR OPERATION OF THIS ENGINE ON ANY FOREST COVERED, BRUSH COVERED, OR GRASS COVERED LAND WITHOUT A STATE APPROVED SPARK ARRESTOR IN EFFECTIVE WORKING ORDER CONSTITUTES A VIOLATION OF THE LAW OF THE STATE OF CALIFORNIA.

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LT 8 & 11 GEAR DRIVE

INTRODUCTION

This manual contains service and maintenance instructions for Lawn Tractors. It has been prepared to provide the information the serviceman needs to correctly service and maintain a Lawn Tractor. All sections of this manual should be carefully studied by the serviceman before beginning to work on the tractor.

ALL WARNINGS used throughout this manual should be heeded and followed very closely. Failure to obey these rules could result in personal injury or death to yourself or others.

All references made to the left side, right side, front and rear are given from the operator's position.

SAFETY



Safety is No Accident . . . . . Be Alert!

This symbol is used to attract your attention to the safety precautions that should be understood by the serviceman to avoid accidents.

Please read and follow these instructions on safety procedures before servicing the tractor.

PERSONAL CONSIDERATIONS:

1. Never let shop rags, used for cleaning, lay around to become fire hazards.
2. Always use safety glasses when servicing or inspecting the tractor.
3. Do not wear loose fitting clothing that might get caught in moving parts. Also, keep hands and feet away from moving parts.
4. Be certain that the work bench or support being used is strong enough. The weight of the part plus the force applied to it during assembly or disassembly may put a great strain on the bench or support.
5. Use jack stands or blocks to hold up the unit in any potentially dangerous positions required for access. Do not rely only on jack for support.

EQUIPMENT CONSIDERATIONS:

1. Always disconnect spark plug wire and secure away from spark plug. This **must** be performed every time any servicing is done and will prevent accidental starting of engine.
2. Always store gasoline or flammable solvents used for cleaning in closed containers specifically designed for that purpose.
3. Before cleaning, servicing or inspecting tractor, make certain all moving parts have stopped and engine and exhaust assemblies have cooled down.
4. Never operate tractor without proper guards, plates or other safety protective devices in place.
5. Never store tractor with gasoline in the tank, inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
6. Disengage power to attachment(s) and stop engine before servicing, repairing or making any adjustments.
7. Disengage power to attachment(s) when transporting or not in use.
8. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachment, shifting into neutral, setting the parking brake, stopping the engine and removing the key.
9. Do not change governor setting or over speed the engine.
10. Be certain that any part being removed is properly supported or held to prevent injury or damage.

OPERATIONAL CONSIDERATIONS:

1. Do not start or run the engine indoors. Fumes from engine exhaust can kill.
2. Disengage all clutches and place gear shift lever in neutral before attempting to start engine.
3. Be sure that all parts are securely fastened before starting tractor.
4. Be sure all tools and cleaning materials are removed before starting tractor.
5. If the equipment should start to vibrate abnormally, stop engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. If test running is required, make sure you are thoroughly familiar with the complete operation of the tractor. Know how to stop the tractor.
7. Never operate machine at high transport speeds on slippery surfaces. Use care when backing.
8. Never operate without good visibility or light.

Whenever you see this symbol  **it means:**

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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IDENTIFICATION PLATE LOCATION

The tractor model and serial number identification plate is located on the left side of engine base assembly below the engine. (Fig. 1)

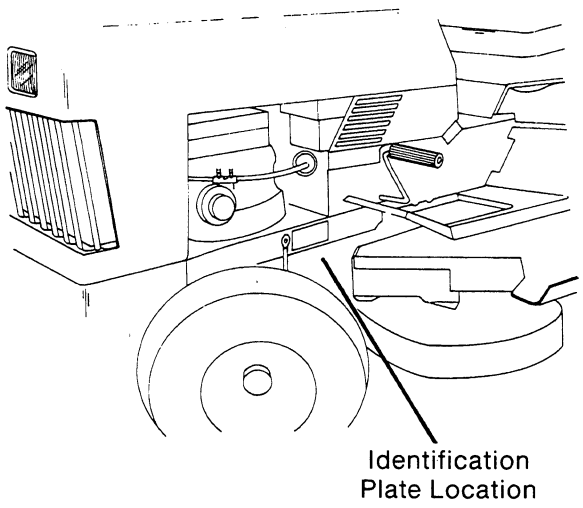


FIG. 1

Refer to engine manufacturer's engine literature for location of engine model and serial number.

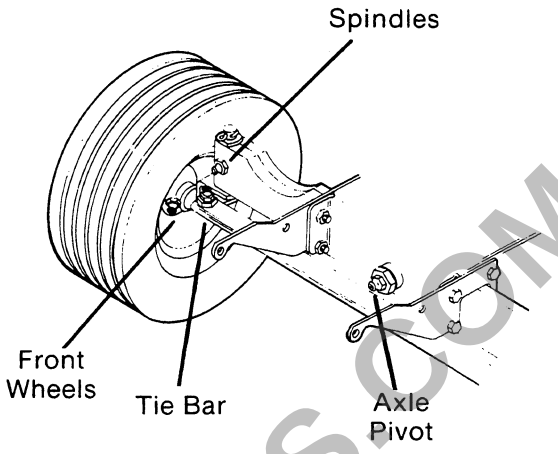


FIG. 2

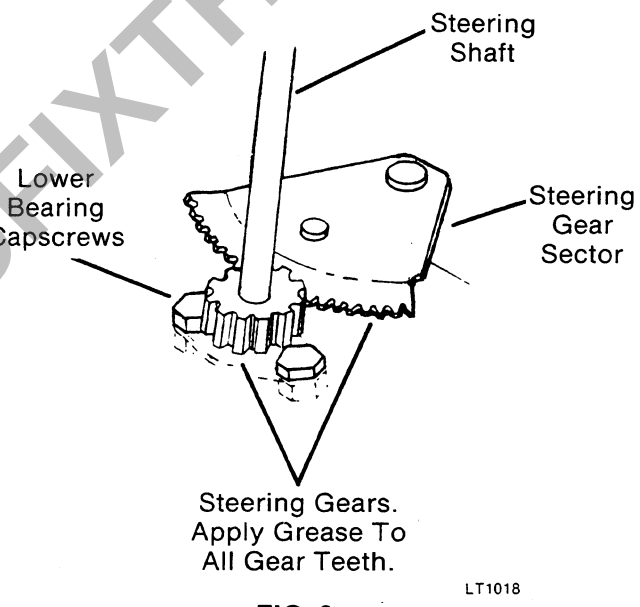


FIG. 3

LUBRICATION AND MAINTENANCE

LUBRICATION:

1. ENGINE - Check engine oil level before each engine operation. Change engine oil every 25 operating hours (more often under dusty conditions). Consult engine manufacturer's service manual for all lubrication and maintenance specifications.
2. GREASE - Every 25 operating hours grease the following lubrication points with NLGI Grade 2 Lithium base EP grease (Ford 1T-M1C137-B). Reference (Figs. 2 and 3).

NOTE: Clean off grease fittings before attaching grease gun. Grease only until grease comes out of bearings. Wipe off excess grease. Use a pressure type grease gun.

a. Front Wheels - one fitting located on inside of each front wheel. (Fig. 2)

b. Tie Bar - one fitting on both ends. (Fig. 2)

c. Spindles - one fitting on both ends of front axle. (Fig. 2)

d. Axle Pivot - one fitting in center of axle. (Fig.2)

e. Steering Gears - clean gear teeth on steering gear and gear sector. Apply grease liberally to all gear teeth. (Fig. 3)

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FRONT AXLE REMOVAL AND REPLACEMENT:

WARNING: To avoid accidental starting, remove spark plug wire and secure away from spark plug.

A. Jack front of tractor up and support with jack stands on frame as shown in (Fig. 32).

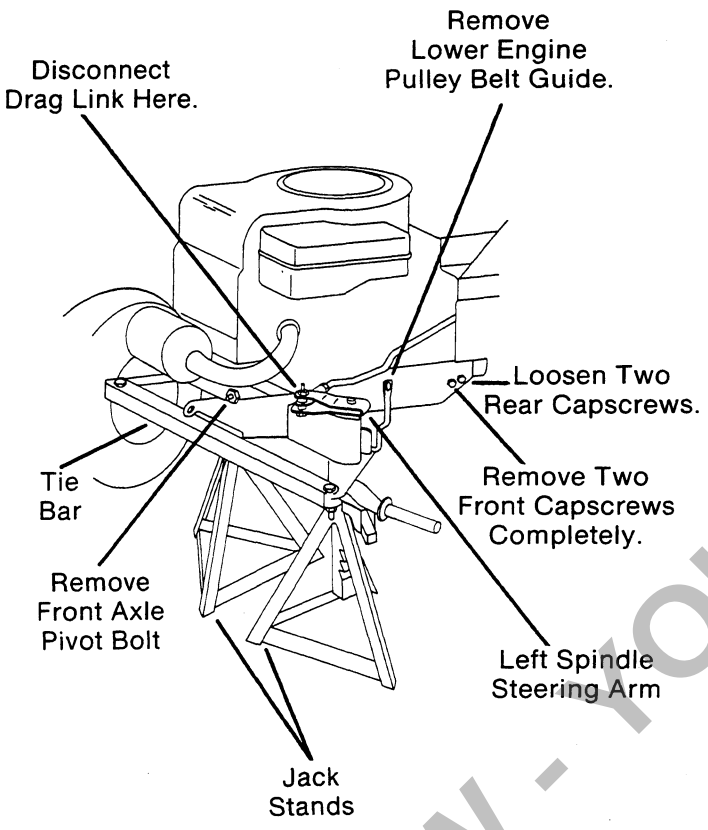


FIG. 32

B. Remove capscrew and locknut securing steering drag link to left spindle steering arm. (Fig. 32)

C. Remove two thread forming screws attaching lower engine pulley belt guide to frame. (Fig. 32)

D. Loosen (do not remove) two rear capscrews holding rear axle pivot bracket to frame. Remove two front capscrews completely. (Fig. 32)

E. Holding inside locknut, remove front axle pivot bolt and pull bolt out forward. (Fig. 32)

WARNING: To avoid injury from falling parts, care should be taken to secure assembly when removing the pivot bolt.

F. Pull entire axle assembly down and forward to remove. The rear axle pivot bracket will pivot on the two remaining capscrews and allow the front axle pivot bracket to separate from the rear bracket.

G. Service front axle as required. Check all bushings, spindles and front tie bar for excessive wear. Replace any worn parts and regrease all lube fittings with No. 2 wheel bearing grease or Ford 1T-M1C137-A grease, after axle is reassembled.

H. Reverse above procedures to install front axle until you reach the point of connecting the drag link, then follow steering adjustment procedures below:

a. Manually set front wheels all the way to the left, allowing maximum ⅛" gap between left spindle stop and rear of axle wall as shown in (Fig. 33).

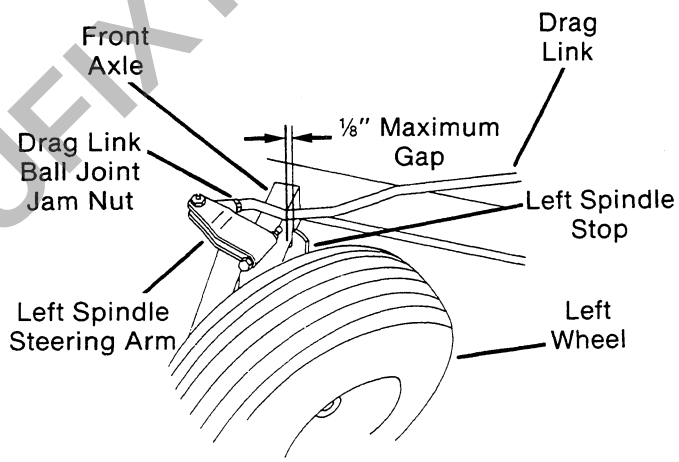


FIG. 33

b. Turn steering wheel to the left until sector gear reaches the end of its travel. Hold in this position.

c. Adjust ball joints on ends of steering drag link. Loosen jam nut and turn ball joint, so hole in ball joint aligns with hole in left spindle steering arm. Lock ball joint by tightening jam nut. (Fig. 33)

d. Bolt drag link into left spindle steering arm, with capscrew coming from bottom up.

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