SEAT, SEAT BELT AND ROPS

TRACTOR SEAT

Your Ford 1215 Tractor is equipped with a molded cushon seat as shown in Figure 1. The seat is adjustable to obtain the most comfortable position. It can be moved fore and aft by repositioning the seat pin, shown in Figure 2.
An additional inch of adjustment can be obtained by repositioning the mounting bolts shown in Figure 2.

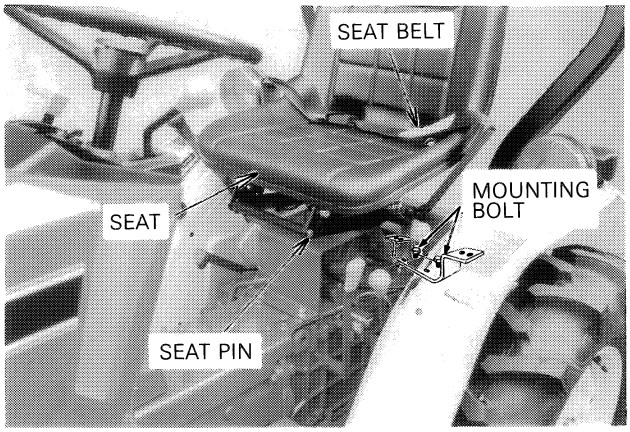


Figure 1 — Tractor Seat, Seat Belt and ROPS

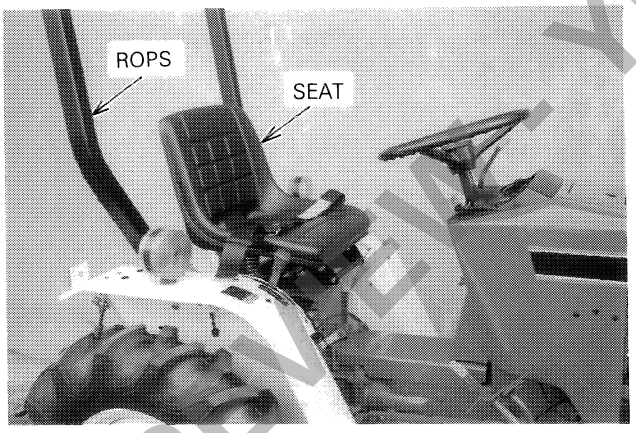


Figure 2 — Tractor Seat Adjustment

ROLLOVER PROTECTIVE STRUCTURE (ROPS)

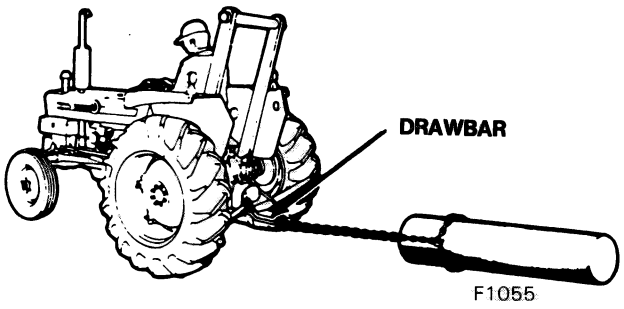
A Roll Over Protective Structure (ROPS) and seat belts are standard equipment for this tractor at time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure (ROPS) and seat belts. ROPS are effective in reducing injuries during tractor overturn accidents. Overturning tractor without a ROPS can result in serious injury or death.

Roll Over Protective Structure (ROPS), and seat belts are available from your Ford New Holland Dealer.

The safety offered by the ROPS and seat belt is minimized if your seat belt is not buckled. Always use your seat belt — they save lives.

WARNING: Always wear the seat belt when the tractor is equipped with a ROPS. DO NOT use the seat belt if the ROPS is removed from the tractor.

WARNING: DO NOT attach chains or ropes to the ROPS for pulling purposes since the tractor can tip backward. Always pull from the tractor drawbar. Be careful when driving through door openings or under low overhead objects. Make sure there is sufficient overhead clearance for the ROPS.



ADJUSTING THE SEAT BELT

To lengthen the belt, tip the buckle end down and pull on the buckle until the ends can be joined.

To shorten the belt, buckle it, then pull on the loose end until the belt is snug.

If the seat belt is to be cleaned, use soap and water. Do not use carbon tetrachloride, naphtha, etc., as these will weaken the webbing. For the same reason, do not bleach or redye the webbing. Replace seat belt if worn or damaged.

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BREAK-IN PROCEDURES

Your Ford Tractor will provide long and dependable service if given proper care during the 50-hour break-in period. During the first 50 hours of operation :

1. Avoid "lugging" the engine. Operating in too high a gear under heavy load may cause engine "lugging", which is indicated when the engine will not respond to a throttle increase.
2. Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular operation. Operating the tractor in low gear with a light load and high engine speed will waste fuel.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to their recommended levels. Daily checks include :
   - Engine oil level
   - Radiator coolant
   - Air cleaner

STARTING THE ENGINE

Safety switches on the tractor allows the starting motor to be used only when the clutch pedal is fully depressed and when the rear P. T. O. lever and mid P. T. O. lever (if equipped) are in "OFF" positions. For safe operation the transmission gear shift levers should be in neutral position prior to starting the engine.

WARNING : Never attempt to start the engine while standing beside the tractor — always sit in the seat when starting the engine.

IMPORTANT : Do not engage the starting motor continuously for more than 30 seconds ; doing so may cause starting motor failure.

WARM WEATHER STARTING

To start a cold engine in warm weather or to start an engine that is warm .

1. Depress the clutch pedal fully, move the transmission shift lever to the neutral position and P.T.O. levers to the "OFF" position.
2. Move the hand throttle forward to 1/4 to 1/3 open position and push the stop contrl knob in.
3. Turn the key switch to the "START" position, Figure **16**. When the engine starts, release the key. Check to be sure the warning lights go out. If the engine fails to start after cranking for approximately 10 seconds, refer to the following "COLD WEATHER STARTING" information.

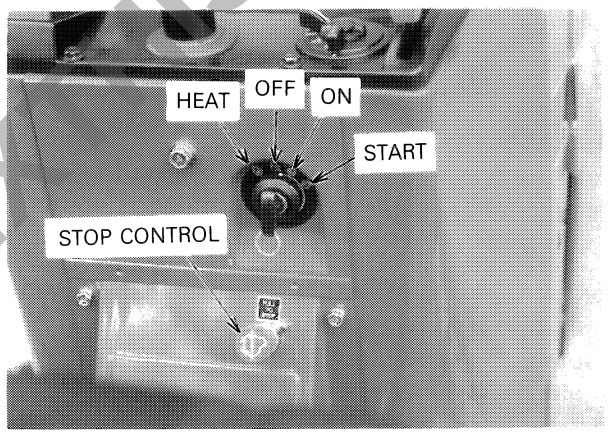


Figure 16 — Key Switch and Stop Control

COLD WEATHER STARTING

If the engine fails to start using the preceding warm weather starting procedure or when starting the engine in cold weather:

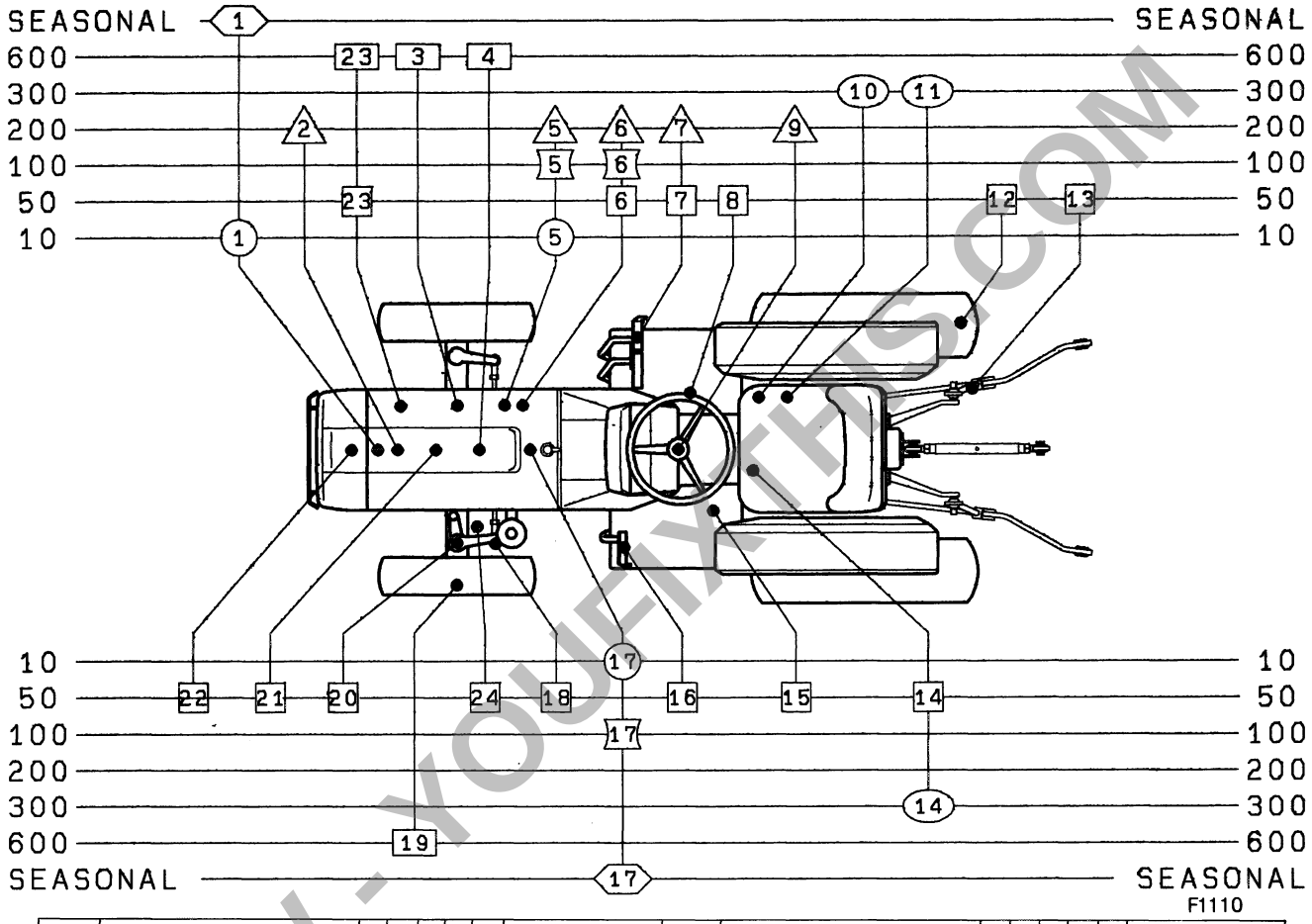
1. Depress the clutch pedal fully and move the transmission shift levers to the neutral position and P.T.O. levers to the "OFF" position.
2. Move the hand throttle forward to 1/4 to 1/3 open position push the stop control knob in.
3. Turn the key switch to "HEAT" to preheat the combustion chambers and wait until the cold-start aid indicator glows red. (approximately 20 seconds), in Figure **5**.
4. Turn the key switch to the "START" position. When the engine starts, release the key.

IMPORTANT : In cold weather below 23°F (−5°C) start the engine after holding the key switch to the "HEAT" position for an additional 10 seconds even if the glow plug indicator has shown red.

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LUBRICATION AND MAINTENANCE CHART – FORD 1215
TWO-WHEEL DRIVE



NO.	LUBRICATION AND MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
1	Radiator Coolant	×					Every (10) Hours or Daily
5	Engine Oil Level	×					
17	Air Cleaner	×					
10	Hydraulic Filter				×		First 50 Hours
11	H.S.T Cartrige Filter				×		
6	Fuel Filter	DRAIN					Every [50] Hours
14	Transmission Oil Level	×					
12	Tires	×					
22	Battery	×					
16	Clutch Pedal	×				×	
	Lubrication Fittings :						
18	Steering Linkage			×			
20	Front Wheel Spindles			×			
13	3-point Linkage			×			
21	Pivot Shaft			×			
15	Pedal Shaft			×			
7	Brake Pedal			×			
8	H.S.T Foot Pedal Shaft			×			
16	Clutch Pedal			×			

NO.	LUBRICATION AND MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
5	Engine Oil				×		Every [100] Hours
6	Fuel Filter		×				
17	Air Cleaner		×				
2	Fan Belt	×				×	Every [200] Hours
5	Engine Oil Filter				×		
6	Fuel Filter				×		
7	Brakes					×	
9	Steering Free-play					×	
10	Hydraulic Filter				×		Every (300) Hours
11	H.S.T Cartridge Filter				×		
14	Transmission and Rear Axle Oil				×		
3	Fuel Injectors	×				×	Every [600] Hours
4	Valve Clearance	×				×	
19	Front Wheel Bearings			×			
1	Radiator Coolant				×		Seasonal
17	Air Cleaner Element				×		

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ENGINE

Type ····· Diesel
Number of Cylinders ····· 3
Bore ····· 2.95 in. (7.5 cm)

COOLING SYSTEM — Con'd.

Fan Diameter ····· 13.19 in. (33.5 cm)
Thermostat :
Start to Open ····· 160°F (71°C)

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GENERAL TORQUE SPECIFICATION TABLE (Revised 2-74)

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with

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FUEL AND LUBRICANT SERVICE PROCEDURES

ENGINE

Checking Oil Level: Check the engine oil level daily or every 10 hours.

1. With the tractor standing level, and after the engine has been stopped for a period of time, check the oil level with the dipstick, Figure **30**.

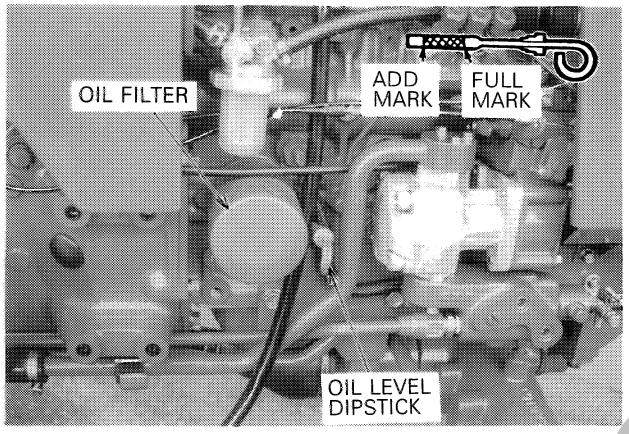


Figure 30 — Engine Oil Level Dipstick and Filter

2. If the oil level is low, remove the filler cap, Figure **31**, and add oil to the engine through the filler hole to bring the oil level between the marks on the dipstick. Be careful not to overfill.
3. Install the oil filler cap.

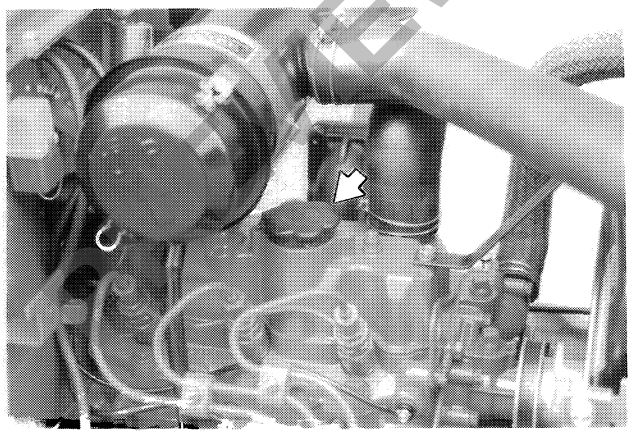


Figure 31 — Engine Oil Filler Cap

Changing Oil and Filter: Change the engine oil every 100 hours and the engine oil filter every 200 hours.

NOTE: Oil intervals should be adjusted according to sulfur-content of diesel fuel. The use of fuel with a sulfur content over 1.3% is not recommended.

Sulfur Content, %	Oil Change Interval
Below 0.5	Normal
0.5 – 1.0	1/2 Normal
Over 1.0	1/4 Normal

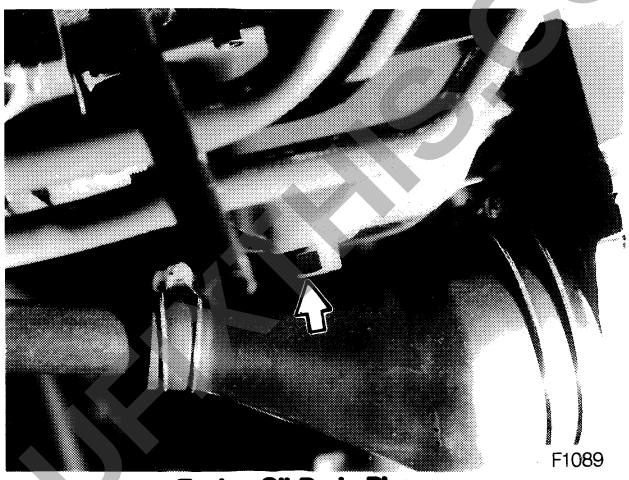


Figure 32 — Engine Oil Drain Plug

NOTE: More frequent engine oil and filter changes are recommended if the tractor is operated for extended periods of time at maximum rated power and speed. Under such conditions, or other types of continued severe operating conditions, the engine oil and the engine oil filter should be changed at 70 hour intervals.

1. With the engine off, but at normal operating temperature, drain and discard the engine oil by removing the drain plug, Figure **32**. Reinstall the plug after the oil has drained and discard the oil.
2. Unscrew the oil filter, Figure **30** catching the used oil in a suitable container placed below the filter. Discard the filter.
3. Coat the gasket on the new filter with a film of oil. Screw the filter into place until the gasket contacts its mating surface, then turn the filter approximately 3/4 of a turn by hand. Do not overtighten.
4. Add new oil of the type specified, page **29**. Start the engine and check the filter for leaks after adding the oil. Be sure the oil is at the proper level.

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CONTENTS

INTERNATIONAL SYMBOLS 3
SAFETY PRECAUTIONS 4–5
CONTROLS AND INSTRUMENTS 6–12
- SEAT, SEAT BELT AND ROPS 6
- LIGHTING 7
- INSTRUMENT PANEL 7–9
- THROTTLE CONTROLS 9
- BRAKE CONTROLS 9–10
- DIFFERENTIAL CONTROLS 10
- 6×2 TRANSMISSION AND PTO CONTROLS 10–11
- HYDROSTATIC TRANSMISSION CONTROLS 11–12
- HYDRAULIC LIFT SYSTEM CONTROLS 12

OPERATION 13–24
- BREAK-IN PROCEDURES 13
- STARTING THE ENGINE 13–14
- STOPPING THE ENGINE 14
- OPERATING THE TRANSMISSIONS, FOUR-WHEEL DRIVE AND PTO 14–17
- TOWING THE TRACTOR 17
- OPERATING THE DIFFERENTIAL LOCK 17–18
- OPERATING THE HYDRAULIC LIFT SYSTEM 18–19
- DRIVING THE TRACTOR 19–20
- WHEEL TREAD SETTINGS 20–21
- TRACTOR WEIGHTING 21–23
- TIRE PRESSURES 23–24

LUBRICATION AND MAINTENANCE 25–47
- LUBRICATION AND MAINTENANCE CHART 25–26
  - TWO-WHEEL DRIVE 25
  - FOUR-WHEEL DRIVE 26
- FUEL AND LUBRICANTS 27–29
- FUEL AND LUBRICANT SERVICE PROCEDURES 30–34
- GENERAL MAINTENANCE 35–45
- TRACTOR STORAGE 45–46
- GENERAL TORQUE SPECIFICATION TABLE 47

SPECIFICATIONS 48–51
SAFETY AND INSTRUCTION DECALS 52–58
PREDELIVERY AND 50-HOUR SERVICE 61–63
OWNER ASSISTANCE 65

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SAFETY PRECAUTIONS

The following precautions are suggested to help prevent accidents.

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. Read and take the following precautions before operating this tractor to help prevent accidents. Equipment should be operated only by those who are responsible and instructed to do so.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved Rollbar and Seat Belt for safe operation. Overturning a tractor without a rollbar can result in death or injury. If your tractor is not equipped with a rollbar and seat belt, see your Ford New Holland Dealer.
3. Always use the seat belt. Do not use the seat belt if the rollbar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Replace all missing, illegible, or damaged safety decals. See list of decals on page 52.
8. Keep safety decals clean of dirt and grime.

SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while system is hot. Always turn cap slowly to the first stop and allow the pressure to escape before removing the cap entirely.
2. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for engine to cool before refueling.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. Keep open flame away from battery or cold weather starting aids to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
   - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
   - Stop engine and relieve pressure before connecting or disconnecting lines.
   - Tighten all connections before starting engine or pressurizing lines.

   If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
7. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford New Holland Dealer.
8. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.
10. Some components on your tractor, such as gaskets, may contain asbestos. Breathing asbestos dust is dangerous to your health. You are therefore advised to have any maintenance or repair operations on such components carried out by an authorized Ford New Holland Dealer. If, however, service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:
    - Work out of doors or in a well ventilated area.
    - Dust found on the tractor or produced during work on the tractor should be removed by extraction not by blowing.
    - Dust waste should be dampened, placed in a sealed container and marked to ensure safe disposal.
    - If any cutting, drilling, etc., is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

OPERATING THE TRACTOR

1. Apply the parking brake, place the P.T.O.lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating controls.
3. Do not bypass the neutral start switches. Consult your Ford New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift levers while the engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. Disengage PTO, shut off the engine and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
9. If power steering or engine ceases operating, stop the tractor immediately.
10. Pull only from the drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.

(cont.)

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