SEAT, SEAT BELT AND ROPS

TRACTOR SEAT

Your Ford 1920 Tractor is equipped with a suspension seat as shown in Figure 1. The seat is adjustable to obtain the most comfortable position.

To move the seat fore and aft, move the seat release lever to the side and slide the seat fore or aft as desired, Figure 2.

To adjust the seat for flotation, turn the flotation adjusting bolt right for a firm ride, or left for a soft ride, Figure 2.

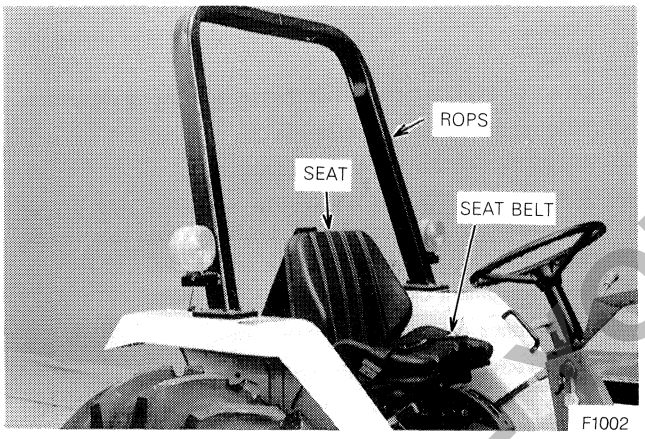


Figure 1 – Tractor Seat, ROPS and Seat Belt

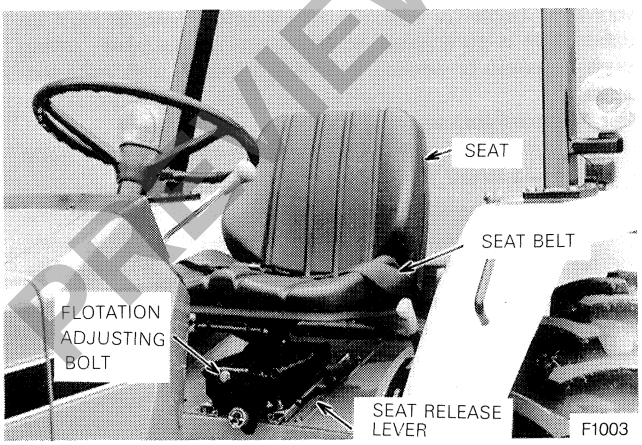


Figure 2 – Tractor Seat Adjustment

ROLLOVER PROTECTIVE STRUCTURE (ROPS)

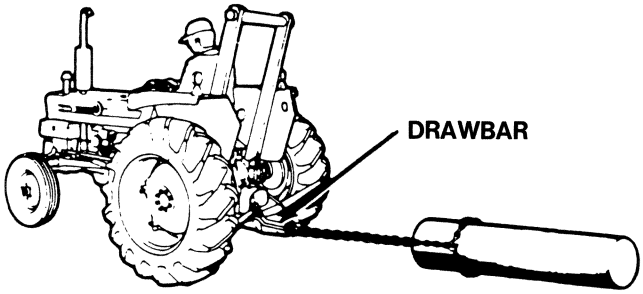
A Roll Over Protective Structure (ROPS) and seat belts were standard equipment for this tractor at time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure (ROPS) and seat belts. 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 roll bar 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 roll bar 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 roll bar.



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

A safety key switch on the tractor allows the starting motor to be used only when the main shift lever, shuttle shift lever (if equipped) and P. T. O. control lever are in neutral position. For safe operation the range selector lever 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 and move the transmission shift and P. T. O. levers to the off and neutral positions.
2. Move the hand throttle forward to a near full open position.
3. Turn the key switch to the "START" position, Figure **20**. 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.

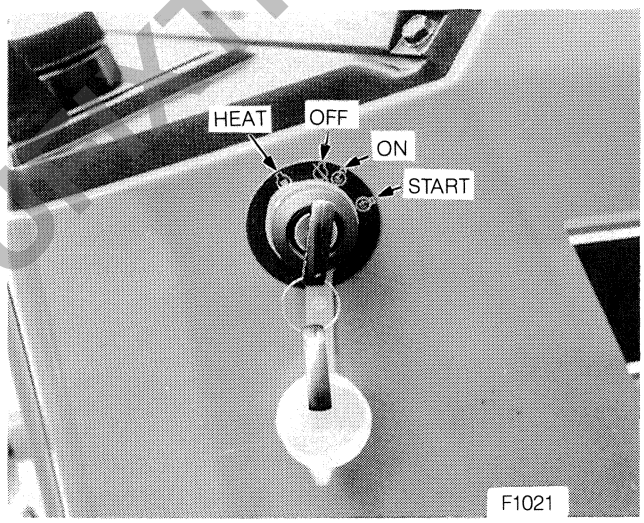

Figure 20 — Key Switch

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 and P. T. O. levers to the off and neutral positions.
2. Move the hand throttle forward to the wide-open position.
3. Turn the key switch to "HEAT" to preheat the combustion chambers and wait until the cold-start aid indicator warning light goes out (approximately 4 seconds).
4. Turn the key switch to the "START" position. When the engine starts, release the key. Check to be sure the warning lights go out.

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TIRE PRESSURE

Tire pressure must be considered when adding weight to the tractor. The following "TIRE INFLATION vs. PERMISSIBLE LOAD" table lists the tire sizes available and shows the maximum load the tires can carry for a given air pressure. Note that the load capacities decrease as inflation pressures decrease, and also that a specific tire pressure is recommended for certain size tires.

TIRES

Inflation and Service

- Upon receiving your tractor, check the air pressure in the tires as indicated in the tables.
- Check tire pressure every 50 hours, or weekly.
- Tire inflation pressure affects the amount of weight which a tire may carry. Locate the tires for your tractor in the "TIRE INFLATION vs. PERMISSIBLE LOAD" chart on page **31**. Do not over-or-under inflate the tires.
- Do not inflate a tire above the manufacturer's maximum pressure shown on the tire or the maximum pressure shown in the "TIRE INFLATION vs. PERMISSIBLE LOAD" chart, page **31** if the tire is not marked.
- Do not inflate a tire that has been runflat or seriously under-inflated until the tire has been inspected for damage by a qualified person.
- When checking tire pressure, inspect the tire for damaged side walls and tread cuts. Neglected damage will lead to early tire failure.



WARNING: Inflating or servicing tires can be dangerous. Trained personnel should be called to service and/or mount tires when possible. In any event to avoid possible serious or fatal injury, follow the safety precautions below :

- Be sure the rim is clean and free of rust.
- Lubricate both tire beads and rim flanges with soap solution. Do not use oil or grease.
- Use a clip-on tire chuck with a remote hose and gauge which allows the operator to stand clear of the tire while inflating it.
- NEVER INFLATE TO OVER 35 psi (2.4 bar) TO SEAT BEADS. If beads have not seated by time pressure reaches 35 psi, deflate the assembly, reposition tire on rim, relubricate both tire beads and rim flanges and re-inflate. Inflation beyond 35 psi with unseated beads may break the bead or rim with explosive force sufficient to cause serious injury.
- After seating the beads, adjust inflation pressure to recommended operating pressure.
- Do not inflate a tire unless the rim is mounted on the tractor or is secured so that it will not move if the tire or rim should suddenly fail.
- Do not weld, braze, otherwise repair, or use a damaged rim.
- Never attempt tire repairs on a public road or highway.
- Use jack stands or other suitable blocking to support the tractor while repairing tires.
- Insure jack has adequate capacity to lift your tractor.
- Insure jack is placed on a firm level surface.
- Do not put any part of your body under the tractor or start the engine while the tractor is on the jack.
- Torque lug nuts to specification after reinstalling wheel. Check lug nut torque daily until torque stabilizes.
- Refer to tractor weighting section before adding ballast to the tires.

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ENGINE

Type ..... Diesel

Number of Cylinders 4

COOLING SYSTEM – Cont'd.

Water Pump Belt
Deflection ..... 7/16 to 9/16 (10-15 mm)

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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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CONTENTS

INTERNATIONAL SYMBOLS 3
SAFETY PRECAUTIONS 4–5
CONTROLS AND INSTRUMENTS 6–13
- SEAT, SEAT BELT AND ROPS 6
- LIGHTING 7
- INSTRUMENT PANEL 7–9
- THROTTLE CONTROLS 9
- BRAKE CONTROLS 10
- DIFFERENTIAL CONTROL 10
- TRANSMISSION AND PTO CONTROLS 10–12
- HYDRAULIC LIFT SYSTEM CONTROLS 12–13

OPERATION 14–31
- BREAK-IN PROCEDURES 14
- STARTING THE ENGINE 14–15
- STOPPING THE ENGINE 15
- OPERATING THE TRANSMISSION, FOUR-WHEEL DRIVE AND PTO 15–18
- TOWING THE TRACTOR 18
- OPERATING THE DIFFERENTIAL LOCK 18–19
- OPERATING THE HYDRAULIC LIFT SYSTEM 19–22
- DRIVING THE TRACTOR 22–24
- WHEEL TREAD SETTINGS 24–27
- TRACTOR WEIGHTING 28–29
- TIRE PRESSURES 30–31

LUBRICATION AND MAINTENANCE 32–55
- LUBRICATION AND MAINTENANCE CHART 32–33
  - TWO-WHEEL DRIVE 32
  - FOUR-WHEEL DRIVE 33
- FUEL AND LUBRICANTS 34–37
- FUEL AND LUBRICANT SERVICE PROCEDURES 37–42
- GENERAL MAINTENANCE 42–53
- TRACTOR STORAGE 53–54
- GENERAL TORQUE SPECIFICATION TABLE 55

SPECIFICATIONS 56–60
SAFETY AND INSTRUCTION DECALS 61–66
PREDELIVERY AND 50-HOUR SERVICE 69–71

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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 61.
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 and friction surfaces (brake linings, clutch linings etc.), 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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