BREAK-IN PROCEDURES

Your new Ford Tractor will provide long and dependable service if given proper care. During the first 50 hours of operation:

1. Avoid "lugging" the engine. Operating in too high a gear under a heavy load will cause excessive engine "lugging". "Lugging" occurs when the engine will not respond to a throttle increase.

2. Avoid continuous operation at a constant engine speed. Use a lower gear when pulling a heavy load; a higher gear when pulling a light load. Selecting the correct gear ratio will save fuel and prolong engine life.

3. Check the instruments frequently and keep the radiator and oil reservoirs filled to the recommended levels. Daily checks should include:

   - Engine oil level.
   - Power steering oil level.
   - Transmission oil level.
   - Tractor hydraulic lift system oil level (rear axle).
   - Air cleaner restriction indicator.

STARTING THE ENGINE

A safety starter permits the starting motor to operate only when the transmission high-low shift lever is in neutral (8x2 Transmission) or when the Gearshift Lever is in "start" (8x4 Syncromesh Transmission).

CAUTION: *Always shift both levers to neutral before starting the engine. NEVER ATTEMPT TO START THE ENGINE WHILE STANDING BESIDE THE TRACTOR—ALWAYS SIT IN THE SEAT.*

IMPORTANT: *Do not crank the starting motor continuously for more than 30 seconds to avoid starting motor failure.*

WARM WEATHER STARTING

1. Depress the clutch pedal and move the shift levers to the neutral position. Apply the parking brake. Place the hydraulic lift control lever(s) in the lower position, the P.T.O. control lever in the disengaged position, and the remote valve handles in the neutral position.

2. **Gasoline Engines:** Open the hand throttle slightly. **Diesel Engines:** Move the hand throttle half-open. Make sure the diesel engine stop control is pushed all the way in.

3. Turn the starter key to its "START" position, Figure 14. When the engine starts, release the key. Make sure the warning lights go out. If the engine fail to start after cranking for approximately 30 seconds, refer to the following "Cold Weather Starting" information.

COLD WEATHER STARTING

Gasoline Engines: If the engine fails to start proceed as follows:

1. Depress the clutch pedal and move the gear shift levers to neutral. Apply the parking brake.

2. Open the hand throttle slightly and pull the choke all the way out.

3. Turn the starter key to its "START" position, Figure 14. When the engine starts, release the key. Make sure the warning lights go out. If the engine fails to start after cranking for approximately 30 seconds, refer to the following "Cold Weather Starting" information.

4. Run the engine at about 1000 rpm for 30 to 60 seconds before driving the tractor. A faster warm-up can then be achieved if the tractor is placed under a light load.

   IMPORTANT: *The choke should be pushed all the way in as soon as possible. Prolonged operation with the choke out will cause high fuel consumption and excessive engine wear due to oil dilution.*

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LUBRICATION AND MAINTENANCE CHART

SERVICE INTERVAL	ITEM	CHECK	CLEAN	LUBE	CHANGE	ADJUST	PAGE NO.	SERVICE PROCEDURE
Daily or 10 Hours	Air Cleaner						49	Refer to Page 49 for Air Cleaner Service.
	Engine Oil Level	X					46	
	Radiator Coolant Level	X					54	
	Pre-Cleaner Bowl	X						
50 Hours	Battery Electrolyte Level	X					56	
	Sediment Bowl (Gasoline)		X				48	
	Fuel Filter (Diesel)		X				47	Drain Water.
	Front Wheel Hubs			X			53	
	Front Wheel Spindles			X			53	
	Brake Pedal Pivots			X			53	
	Power Steering Cylinders			X			53	2610, 3610 and 4610 SU
	Clutch Pedal Pivots			X			52	
	Hydraulic Lift Linkage			X			52	
	Diff. Lock Pedal Pivot			X			52	
	Tire Pressure	X					58	**CAUTION:** *Do Not Inflate Rear Tires Over 35 PSI.*
	Rear Axle Oil Level	X					50	
	Clutch Pedal Free Travel	X					60	
	Belt Pulley Oil Level	X					52	
300 Hours	Engine Oil				X		46	
	Engine Oil Filter				X		46	
	Distributor (Gasoline)			X		X	46	Oil Thru Oil Cup, Lube Cam, Adjust Points.
	Spark Plugs		X			X	55	
	Fan Belt	X					54	
	Hydraulic System Filter				X		51	Initial Charge at 50 Hours Subsequent Changes at 300 hours.
	Transmission Oil Level	X					50	
	Engine Valve Clearance					X	56	
	Power Steering Reservoir Oil Level	X					52	
600 Hours	Fuel Filter (Diesel)				X		47	
	Fuel Injectors (Diesel)				X		55	
	Distributor Points				X		55	
	Spark Plugs				X		56	
	Power Steering Oil				X		52	
	Power Steering Filter				X		52	
	Steering Gear Oil Level	X					52	
	Front Wheel Bearings			X			58	
1200 Hours	Belt Pulley Oil				X		52	
	Rear Axle Oil				X		50	
	Transmission Oil				X		50	
Seasonal	Radiator Coolant							See Page 54 for Instructions.
	Front Axle Tie Rods		X					

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SPECIFICATIONS

CAPACITIES

	Ford 2610	Ford 3610	Ford 4110/ 4610SU	Ford 4610
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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SAFETY PRECAUTIONS

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 Tractor Equipment Dealer.
3. Always use the seat belt when the rollbar is installed. Do not use the seat belt if the rollbar is removed from the tractor.
4. 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.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
6. Replace safety and warning decals when they become illegible.

SERVICING THE TRACTOR

1. 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 in good operating condition for your safety. An improperly maintained tractor can be hazardous.
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. 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 Tractor-Equipment Dealer.

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 safety start switch. Consult your Ford Tractor-Equipment Dealer if your safety start controls malfunction. Use jumper cables only in recommended manner, improper use can result in tractor runaway.
4. Do not get off the tractor while it is in motion.
5. Shut off the engine and apply the parking brake before getting off the tractor.
6. Do not park the tractor on a steep incline.
7. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
8. If power steering or engine ceases operating, stop the tractor immediately.
9. Pull only from the drawbar. 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.
10. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
11. Always set the hydraulic selector lever in position control when attaching equipment, when transporting equipment. Be sure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
12. Do not leave equipment in the raise position.
13. Use the Flasher/Turn Signal Lights and SMV signs when traveling on public roads both day and night unless prohibited by law.
14. Dim tractor lights when meeting a vehicle at night. Be sure the lights are adjusted to prevent blinding an oncoming vehicle operator.

DRIVING THE TRACTOR

1. Watch where you are going especially at row ends, on roads, around trees and any low hanging obstacle.
2. To avoid upsets drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, and when turning.
3. Lock tractor brake pedals when transporting on roads to provide two wheel braking.
4. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hills.
5. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
6. When the tractor is stuck or tires frozen to the ground, back out to prevent upset.

OPERATING THE P.T.O.

1. When operating P.T.O. driven equipment, shut off the engine and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power takeoff, or when near rotating equipment.
3. When operating stationary P.T.O. driven equipment, always apply the tractor parking brake and block the rear wheels front and back.
4. Do not add dressing, install or remove the belt while the belt pulley is in motion.
5. To avoid injury, do not clean, adjust, unclog or service P.T.O. driven equipment when the tractor engine is running.
6. Make sure the P.T.O. master shield is installed at all times and always replace the P.T.O. shaft cap when the P.T.O. is not in use.

Whenever you see this symbol  it means: ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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FOREWORD

This manual has been prepared to assist you in the proper break-in, daily care, and operation of your new Ford Tractor. It contains information about the many features of the tractor, operator safety precautions, maintenance, and instructions for making minor adjustments.

Your tractor has been carefully inspected before leaving the factory and again before leaving your Ford Tractor-Equipment Dealer to assure that it is ready to go. To keep the tractor in this condition, it is important that you maintain and lubricate your tractor as recommended in this manual.

The information in this manual applies to the following tractors:

2610 All Purpose
3610 All Purpose and Narrow Orchard
4110 All Purpose
4610 All Purpose, SU, and Orchard

Read this manual carefully before operating your tractor, and keep it in a convenient location for later reference. If, at any time, you have a service problem concerning your new tractor, remember that your Ford Tractor-Equipment Dealer has factory-trained service personnel, Genuine Ford Parts, and the necessary tools and equipment to best satisfy your service needs.

FORD TRACTOR OPERATIONS

FORD MOTOR COMPANY

ISSUED TO:	**ISSUED BY:**
Owner's Name	Ford Tractor-Equipment Dealer
Mailing Address	City
City	State / Zip Code
State / Zip Code	Delivery Date

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3. If the tractor is equipped with independent P.T.O., test the operation of the equipment by engaging the P.T.O. lever, Figure 11. If the equipment is operating satisfactorily, depress the clutch, shift to the operating gear, and slowly engage the clutch.

   NOTE: *Engage the P.T.O. before entering the work area so engine rpm can increase to the required speed before the work is encountered.*

4. If plugging of the equipment occurs, depress the clutch, stop the tractor, and allow the equipment to clear itself. If the equipment will not clear itself:

   - Disengage the P.T.O.
   - Depress the clutch and shift the transmission to neutral.
   - Shut off the engine.
   - Wait until the P.T.O. has stopped turning before working on the equipment.

CAUTION: *Do not approach or work on the P.T.O. shaft or equipment with the P.T.O. in motion. Shut off the P.T.O. and the tractor engine before working on the P.T.O. or equipment.*

P.T.O. SPEED AND ENGINE SPEED

P.T.O.	Engine Speed (rpm)	P.T.O. Speed (rpm)
Live P.T.O.	1800	540
Independent P.T.O.	1800	540

CAUTION: *Do not operate the PTO at speeds in excess of 630 rpm. On the 4110 and 4610 tractors the PTO should not be operated at an engine speed in excess of 2100 rpm.*

TOWING THE TRACTOR

To tow your tractor, place the transmission gearshift levers in neutral.

If the tractor is to be moved any great distance, use a solid tow bar or arrange to transport the tractor on a trailer. Do not exceed 20 mph (32.2 kph). Do not tow your tractor to start it.

OPERATING DIFFERENTIAL LOCK

The differential lock is engaged by depressing the pedal, Figure 7. Depressing the pedal locks both rear axle shafts together, preventing one wheel from rotating independently of the other. Use the lock to obtain additional traction from a rear wheel when the other rear wheel begins to slip in wet or loose soil.

Do not engage the differential lock when driving the tractor on the highway, or when ground speed is above 5 mph (8.0 kph).

CAUTION: *Do not engage the differential lock when turning the tractor. If the lock is engaged when turning, a loss of steering control may occur.*

To operate the differential lock, depress and hold the pedal down until the lock is felt to engage, then release the pedal. The lock will remain engaged until traction of both rear wheels is equal. It will then disengage automatically, and the pedal will return to its original position when traction equalizes. If a wheel spins at high speed, as on ice, reduce engine speed to idle before engaging the lock, or damage may occur.

OPERATING BELT PULLEY (ACCESSORY)

The belt pulley, Figure 18, is available as an accessory on Ford Tractors that are equipped with a 6-spline, 540 rpm P.T.O. shaft. The pulley can be installed horizontally to the left or right, giving clockwise or counterclockwise pulley rotation. The pulley may also be installed in the downward position.

NOTE: *Never install the pulley in the "UP" position.*

To install the pulley:

1. Remove the P.T.O. shaft safety cap, the P.T.O. shield, the drawbar, the drawbar hanger, and the check chains.

2. Position and secure the pulley assembly over the 6-spline P.T.O. shaft with the four bolts used to secure the drawbar hanger.

NOTE: *A belt pulley guard is available as an accessory from your Ford Tractor-Equipment Dealer.*

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- Ford 2610 . . . . . .4150 lbs. (1882 kg)
- Ford 4610 . . . . . .6200 lbs. (2812 kg)
- Ford 3610 . . . . . .5000 lbs. (2268 kg)
- Ford 4110-4610SU . . . . . .5900 lbs. (2680 kg)

Total rear axle weight is measured with only the rear wheels on the scales, with liquid ballast and/or cast iron weights in place, and with mounted equipment in the lowered position.

Straight Drawbar Limitations

If your tractor is used for straight drawbar work, ballast can be added to the front and rear provided that the tire load capacities, as listed on page 40, and the weighting limitations are adhered to.

LIQUID BALLAST

It is common practice to weight the tractor by filling the front and rear tires with liquid. A calcium chloride-water solution is recommended because of its low freezing point and greater weight per gallon than water. Because special equipment is required to fill the tires, we recommend that you see your Ford Tractor-Equipment Dealer.

The following table lists the most popular tire sizes available, along with weighting information for each. The table is based on 75% fill and the fact that 5 pounds (2.3 kg) calcium chloride added to one U.S. Gallon (0.83 Imp. Gal.) (3.8 Liters) of water equals 12.35 pounds (7.0 kg) total weight.

CAUTION: *Never pour water on calcium chloride. Slowly add the flakes to the water and stir until dissolved.*

In some instances it will be necessary to reduce the amount of water and calcium chloride per tire to stay within the weighting limitations. For example: If it is determined that 475 lbs. (20.43 kg) of liquid ballast can be added to each rear tire without "going overweight", divide 13.35 into 475 to compute the "Water Per Tire" requirement. Then, multiply that figure by 5 to compute the "Calcium Chloride Per Tire" requirement.

Example:

- 13.35 lbs. divided into 475 lbs. equals *35.6. This is the number of U.S. Gallons of Water required per tire, each weighing 8.35 lbs. (*Multiply 35.6 by 0.83 to find Imperial Gallons) (Multiply 35.6 by 3.8 to find Liters)
- 5 lbs. times 35.6 equals 178.0 lbs. calcium chloride per tire.
- 178.0 lbs. calcium chloride added to 35.6 U.S. Gallons (30.5 Imp. Gals.) of water, each weighing 8.35 lbs., equals 475 lbs. (20.43 kg) total weight.

	Pounds Calcium Chloride Per Tire		Gallons of Water Per Tire			Pounds Weight of Solution Per Tire	
Tire Size	lbs.	(kg)	U.S.	(Liters)	Imp.	lbs.	(kg)
5.50-16	18	8.2	3.5	13.2	2.9	47	21.3
6.00-16	24	8.7	4.8	18.2	4.0	64	29.0
6.50-13	7.2	3.3	1.6	6.1	1.3	19.2	8.7
7.50-15	32.5	14.7	6.5	24.6	5.4	87	39.4
7.50-16	37	16.9	7.3	27.6	6.1	98	44.4
7.50-18	40	18.1	8	30.3	6.7	107	48.5
8.3-24	50	22.7	10	37.8	8.3	133	60.3
9.00-10	36	16.3	7.2	27.2	6.0	96	43.5
11.2-28	110	49.9	22	83.3	18.3	293	132.9
12.4-28	140	63.5	28	106.0	23.3	374	169.6
12.4-38	185	83.9	37	140.0	30.8	494	224.1
13.6-24	155	70.3	31	117.3	25.8	414	187.8
13.6-28	175	79.4	35	132.5	29.2	467	211.8
13.6-38	230	104.3	46	174.1	38.3	614	278.5
14.9-24	190	86.2	38	143.9	31.7	507	230.0
14.9-28	215	97.5	43	162.7	35.8	574	260.4
14.9-30	230	104.3	46	174.1	38.3	614	278.5
15.5-38	265	120.2	53	200.6	44.1	707	320.7
16.9-24	245	111.1	49	1855	40.8	654	296.7
16.9-26	260	117.9	52	196.8	43.3	694	314.8
16.9-30	295	133.8	59	223.3	49.1	787	357.0
18.4-16.1	165	74.8	33	124.9	27.5	438	198.7
18.4-26	320	145.1	64	242.2	53.3	854	387.4
18.4-30	360	163.3	72	272.5	60.0	960	435.4

The above figures are for individual tires only. For combined front axle and/or rear axle weight, multiply the figures by 2.

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IMPORTANT: *Do not pull on the wires. Pry the protective boots from the plugs, then pull on the boots. Twisting the boot will usually loosen it on the plug.*

3. Remove the high tension wires. Using a spark plug socket, remove the spark plugs, Figure 68, and inspect for damaged insulators, fouling, and excessive electrode erosion. If serviceable, clean with sandblasting equipment.

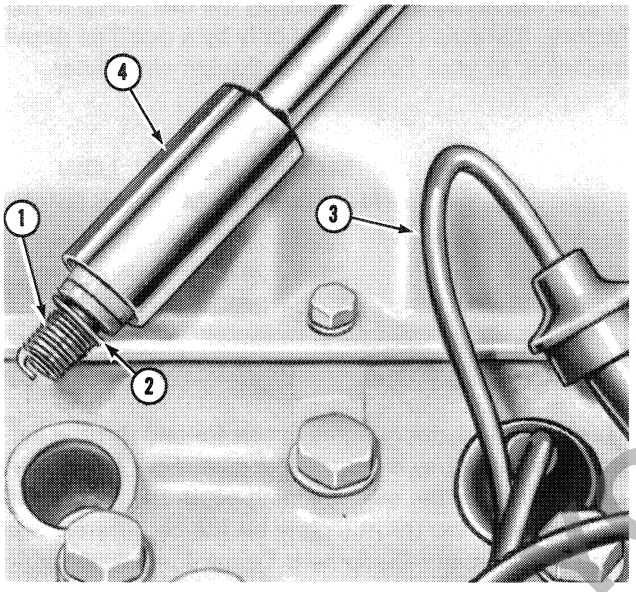


Figure 68
Removing Spark Plugs

1. Spark Plug
2. Sealing Washer
3. Spark Plug Wire
4. Spark Plug Socket

4. Check the gap with a wire gauge, Figure 69. Adjust the gap to 0.023-0.027 inch. (.58-.68 mm)

5. Install the plugs and tighten them to 26-30 lbs. ft. (3.6-4.1 kgm). Connect the wires and move the battery back into position.

VALVE CLEARANCE (LASH)

Correct valve clearance is important for good engine performance.

Check and adjust the valves every 300 hours. See Figure 70.

The setting should be:

Intake . . . . . 0.014 go-0.016 no-go (.35-.41 mm)
Exhaust . . . . . 0.017 go-0.019 no-go (.43-.48 mm)

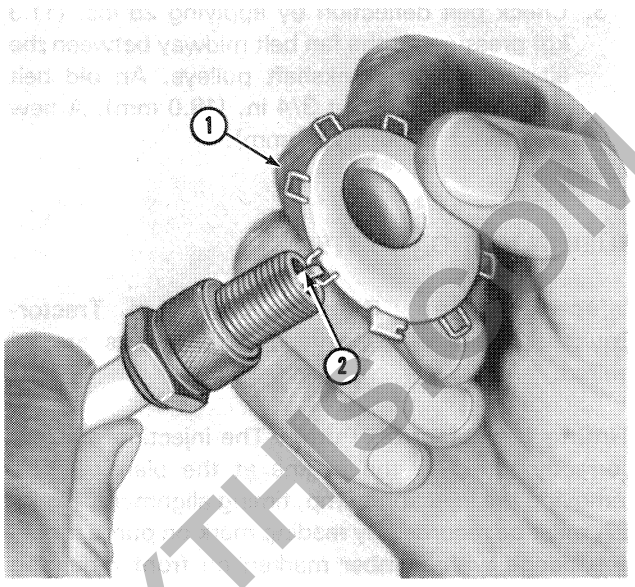


Figure 69
Checking Spark Plug Gap

1. Gauge
2. Electrode

BATTERY

Keep the battery connections tight and free of corrosion. Use an ammonia or baking soda-water solution to wash the outside surface and terminals of the battery. Make sure the solution does not enter the battery. After cleaning, wash the battery with clear water. Protect the terminals from corrosion with a light application of petroleum jelly.

In freezing temperatures, the battery must be maintained in a good state of charge. When a battery is discharged or run down, the electrolyte is weak and may freeze, damaging the case. If it becomes necessary to add water (distilled), it should be done just before using the tractor so the charging will mix the water with the electrolyte and prevent the water from freezing.

Checking Electrolyte Level: Check the electrolyte level in the battery every 50 hours.

CAUTION: *When the alternator is charging, an explosive gas is produced inside the battery. Always check the electrolyte level with the engine stopped. Do not use an exposed flame and do not smoke when checking the battery.*

1. Clean the top of the battery, then remove the vent plugs.

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