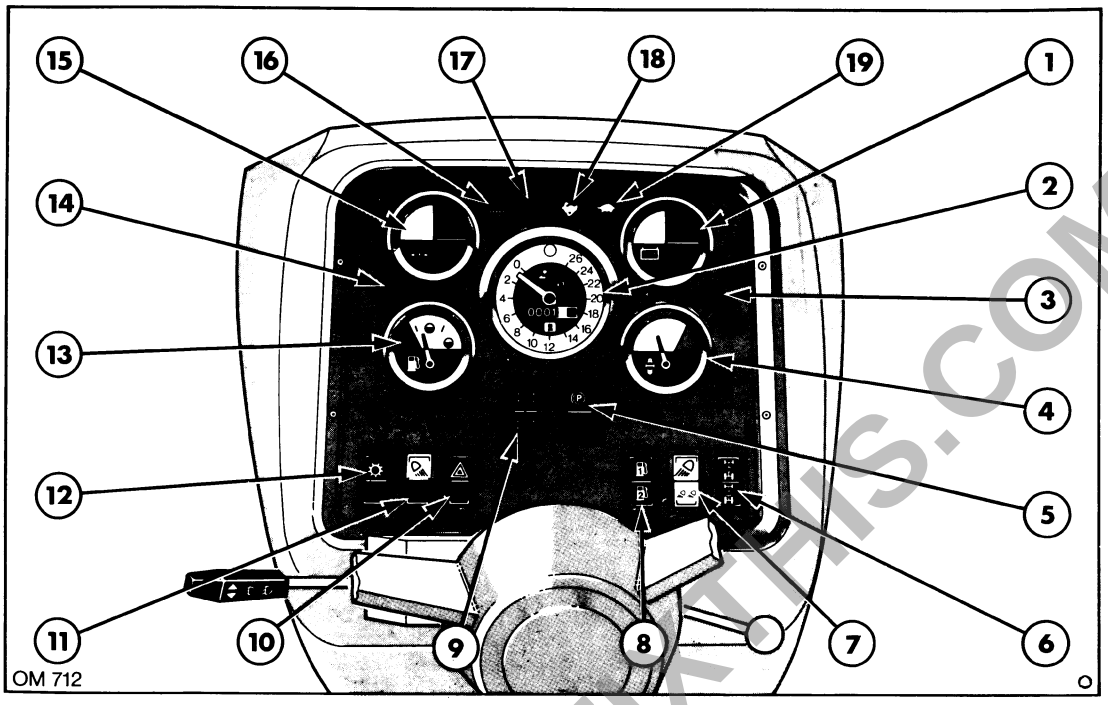


1. Instrument Panel – mechanical type

1. Alternator warning light
2. Proofmeter
3. Turn signal indicator light (R.H.)
4. Engine coolant temperature gauge
5. Handbrake warning light
6. Four wheel drive switch
7. Front worklamp switch (where fitted)
8. Fuel tank sender switch
9. Trailer turn signal indicator lights
10. Hazard warning lights switch
11. Rear worklamp switch
12. Tractor lights switch
13. Fuel gauge
14. Turn signal indicator light (L.H.)
15. Engine oil pressure warning light
16. Air cleaner restriction warning light
17. Unused
18. Dual Power indicator (direct drive)
19. Dual Power indicator (power drive)

tank will always be full while there is fuel remaining in the upper tank. It is therefore recommended that the sender switch is kept in position 1 (upper part depressed) until the upper tank is empty, then switch to position 2 to monitor the fuel level in the lower tank.

The fuel filler is located on the centre line of the hood, towards the rear. A step is provided on the side of the tractor to aid filling.

Trailer Turn Signal Indicator Lights (except North America)

The upper light will flash in unison with the turn signals when a trailer is connected to the tractor. The lower light will also flash if a second trailer is connected.

Hazard Warning Lights Switch

Press the red section of the rocker switch (triangle symbol) to operate all the turn signals simultaneously. The switch is internally illuminated and will flash in unison with the turn signals.

NOTE: *North America only: Hazard warning lights are used when driving on the public highway. When a turn signal is made, the lights on one side of the tractor will flash, indicating a turn, while the lights on the other side will burn continuously. For your protection use the hazard warning lights when travelling on public roads unless prohibited by law. The hazard warning lights will only operate with the key-start switch on.*

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LUBRICATION AND MAINTENANCE CHART

The numbers in the second column refer to the operations and illustrations contained in the following pages of this section.

Service Interval	Operation or Fig. No.	Maintenance Operation	Check	Clean	Lube	Change	Adjust	Drain	Wash
Every 10 Hours or Daily	3	Engine oil level	X				X		
	4/5	Coolant level	X				X		
	6	Radiator, oil cooler and condenser (where fitted)		X					
	7	Windscreen washer reservoir (where fitted)	X						
	8	Pre-cleaner		X					
When Warning Light Glows	9	Air cleaner		X					
Every 50 Hours	10	Cab air filters (where fitted)		X					
	11	Front and rear wheel nuts	X				X		
	12	Tyres	X				X		
	13	Clutch pedal free play	X				X		
	14	Battery electrolyte level	X	X			X		
	15	Trailer brake reservoir oil level (where fitted)	X				X		
	16	Water/sediment separator and filter						X	
	17	Transmission/rear axle oil level	X				X		
	18	Belt pulley oil level (where fitted)	X				X		
	19	Front axle differential oil level	X				X		
	20	Front axle hub oil level	X				X		
	21	Drive shaft and trunnion bearings			X				
	22	Front axle trunnion bearings			X				
	23	Hub swivel bearings			X				
	24	Drive shaft			X				
	25	Footbrake bell-cranks			X				
	26	Brake cross-shaft			X				
	27	Clutch linkage bell-crank			X				
	28	Clutch pedal pivot			X				
	29	Clutch cross-shaft			X				
	30	Hydraulic lift linkage			X				
Every 300 Hours	31/32*	Engine oil and filter				X			
	33	Hydrostatic steering oil level	X				X		
	34/35	Hydraulic oil filters				X			
	36	Hydraulic control valve filter		X		X	X		
	37/39	Drive belts	X				X		
	40/42	Footbrakes	X				X		
	43	Handbrake	X				X		
	44	Air cleaner							X
	45	Cab air filters (where fitted)							X
	46	Air conditioner trough and drain tubes (where fitted)		X					
	47	Safety cab or platform bolts (as appropriate)	X				X		
Every 600 Hours	48	Air cleaner				X			
	49	Engine breather				X			
	50	Valve tappet clearance	X				X		
	51/53	Fuel injectors				X			
	54/58	Fuel filter element				X			
Every 1200 Hours or Annually	59/60	Transmission/rear axle and front wheel drive transfer case oil				X			
	61	Belt pulley oil (where fitted)				X			
	62/63	Front axle differential oil				X			
	64/65	Front axle hub oil				X			
	66/67	Hydrostatic steering oil and filter				X			
	68	Air cleaner inner element				X			
	69	Cab air filters (where fitted)				X			
Every 1200 Hours or Two years	70/72	Engine coolant and filter				X			
As Required	73/93	General Maintenance							

* Oil change interval will be reduced if diesel fuel has a high sulphur content. See page 11.

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GENERAL DIMENSIONS

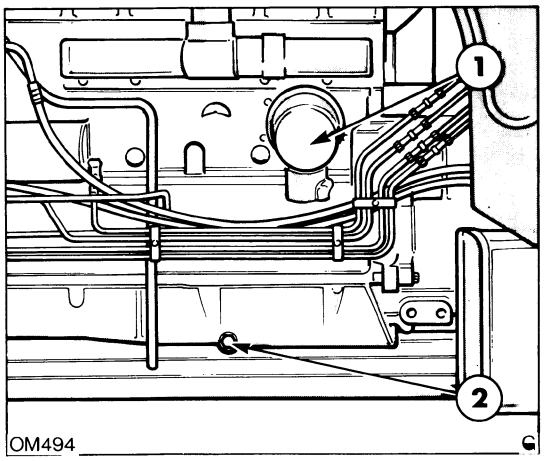
Height to top of cab	in (mm)	110.4 (2804)

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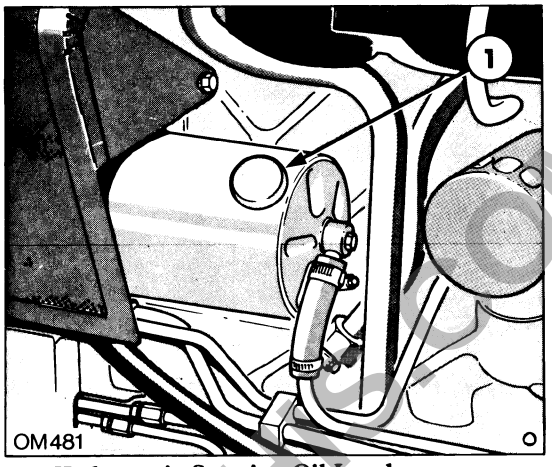
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EVERY 300 HOURS Carry out the preceding checks plus the following:



31. Engine Oil and Filter

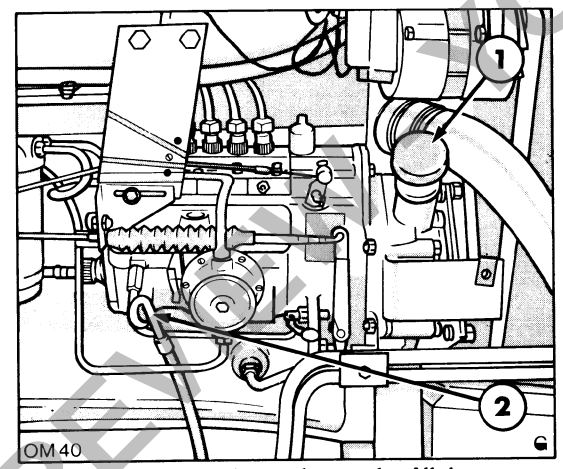
Warm the engine to operating temperature. Stop the engine, remove the drain plug (2) and catch the oil in a suitable container. Unscrew and discard the oil filter (1). Clean the face of the block and install a new filter. Do not over-tighten the filter ----------



33. Hydrostatic Steering Oil Level

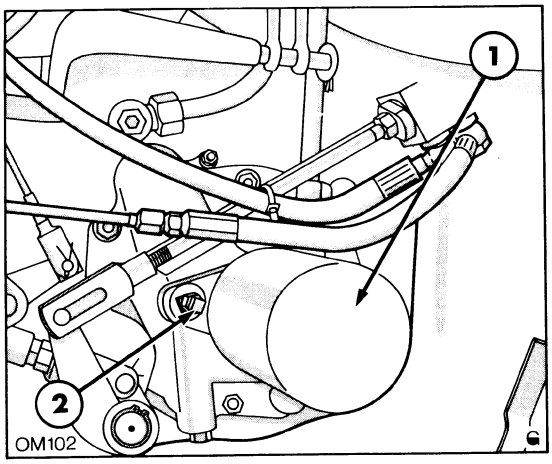
Remove the cap (1) and top up the reservoir until the oil level reaches the filler neck. Replace the cap.

SEE SECTION C FOR CORRECT OIL GRADE



32. --- Install the drain plug and refill the engine with clean oil through the filler tube (1). Run the engine for a few minutes to circulate the oil before checking the level with the dipstick (2).

NOTE: *When operating in temperatures below – 12 °C (10 °F) the engine oil should be changed after every 150 hours of operation. Under these conditions the engine oil filter need only be changed at the 300 hour service, as described above.*



34. Hydraulic Oil Filters

Unscrew and discard the hydraulic filter (1). Clean the inlet channel and the face of the manifold and install a new filter. Do not overtighten.

Remove the low pressure circuit filter (2). Clean the filter in a suitable solvent and the bore in which it fits. Do not overtighten the filter when re-installing. See the torque figure moulded in the head of the filter.

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SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents read and take the following precautions before operating the tractor. 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. If your tractor is equipped with a ROPS or safety cab, use an approved Seat Belt for safe operation. Overturning a tractor can result in death or injury. If your tractor is not equipped with a seat belt, see your Ford tractor dealer.
3. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects.
4. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform clear of mud and debris.
5. Do not permit anyone but the operator to ride on the tractor unless a passenger seat is fitted. There is no safe place for extra riders otherwise.
6. Replace all missing, illegible, or damaged safety decals.
7. 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 the system is hot. Always turn the cap slowly to the first stop and allow the pressure to escape before removing the cap entirely.
2. Do not smoke while refuelling the tractor. Keep any type of open flame away. Wait for the engine to cool before refuelling.
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. To prevent fires or explosions keep open flames away from battery or cold weather starting aids. To prevent sparks which could cause explosion, use jumper cables according to instructions.
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 the engine and relieve pressure before connecting or disconnecting lines.
   - Tighten all connections before starting the engine or pressurizing lines.
   - If fluid is injected into the skin obtain medical attention immediately or gangrene may result.
7. Do not attempt to service the air conditioning system. It is possible to be severely frostbitten or injured by escaping refrigerant. See your dealer for service.
8. 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 your Ford tractor dealer.
9. 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.
10. 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.
11. 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 authorised Ford tractor 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.
12. Tractor wheels are very heavy. Handle with care and ensure, when stored, that they cannot topple and cause injury.

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 any controls, other than the hydraulic lift external controls, unless you are properly seated on the tractor.
3. Do not bypass the safety start switch. Consult your Ford tractor dealer if your safety start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the gear shift lever 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. Always apply the parking brake before getting off the tractor. Additionally, unless operating the hydraulic lift external controls, stop the engine 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 the power steering or engine ceases operating, stop the tractor immediately.

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OWNER ASSISTANCE

We at Ford New Holland and your Ford New Holland dealer want you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your dealer's Service Department. Sometimes, however, misunderstanding can occur. If your problem has not been handled to your satisfaction, we suggest the following.

1. Contact the owner or General Manager of the dealership, explain the problem, and request assistance. When additional assistance is needed, your dealer has direct access to our branch office.
2. If you cannot obtain satisfaction by doing this, contact the Ford New Holland branch office in your area and provide them with:
   - Your name, address, and telephone number
   - Machine model and serial number
   - Dealership name and address
   - Machine purchase date and amount of use
   - Nature of problem

Atlanta
2000 Mountain Ind. Blvd.
Tucker, GA 30084
Telephone: (404) 723-3615

Dallas
P.O. Box 10227
Dallas, TX 75207
Telephone: (214) 939-4919

Kansas City
P.O. Box 14550
Lenexa, KS 66219
Telephone: (913) 894-3387

Minneapolis
P.O. Box 1342
Minneapolis, MN 55440
Telephone: (612) 887-4232

New Holland
500 Diller Avenue
New Holland, PA 17557
Telephone: (717) 355-3951

San Francisco
P.O. Box 6100
Fairfield, CA 94533
Telephone: (707) 423-9200

Troy
1315 Coolidge Avenue
Troy, MI 48084
Telephone: (313) 637-9382

Calgary
Box 1616, Main P.O.
Calgary, AB
CANADA T2P 2M7
Telephone: (403) 569-3208

Toronto
P.O. Box 3610
Guelph, ON
CANADA N1H 6P1
Telephone: (519) 767-4824

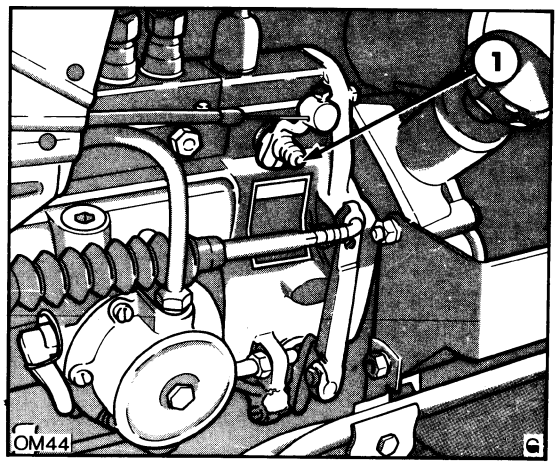
3. If you need further assistance contact:

   Consumer Services Department
   Mail Station 500
   Ford New Holland, Inc.
   New Holland, PA 17557
   Telephone: (717) 355-1545

When contacting Ford New Holland's branch office or Consumer Services Department, be aware that your problem will likely be resolved in the dealership using the dealer's facilities, equipment, and personnel. So it is important that your initial contact be with the dealer.

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5. Fuel Injection Pump (In-line type)

1. Excess fuel button

In cold weather with the engine cold and Thermostart installed:

- When starting a cold engine at temperatures below 4°C (40°F), open the throttle fully and depress the excess fuel button on the injection pump (see Figure 5).

- Depress the clutch and turn the key-start switch to position (4) Figure 4, hold for 30 seconds then turn fully clockwise to position (5). Crank the engine until it starts but do not operate the starter motor for more than 60 seconds. If the engine fails to start, repeat the procedure, operating the thermostart for 30 seconds and the starter motor for up to 60 seconds. If the engine still fails to start, allow the battery to recover for 4–5 minutes then repeat the foregoing procedure.

- When the engine starts, return the throttle to the idle position and check that all warning lights extinguish and gauge readings are normal.

COOLANT IMMERSION HEATER (where fitted)

This dealer installed accessory consists of a heating element fitted into one of the core plug apertures on the right-hand side of the engine block. The heater operates on 115 volts or 230 volts A.C. (dependent on type fitted), and provides easier starting down to −29°C (−20°F).

WARNING: *To avoid shocks or other injuries, never use an ungrounded or inadequate extension cord. Always use a grounded 3 wire extension cord with a 3 wire plug which is rated for at least a 15 ampere load.*

To operate the heater, connect the heater plug to a suitable extension lead and switch on for two hours before carrying out the cold weather starting procedure.

NOTE: *The heater may be left switched on for more than two hours without harm. However, no noticeable increase in the heater's effectiveness will be achieved after this period of time.*

STARTING THE TRACTOR WITH JUMP LEADS

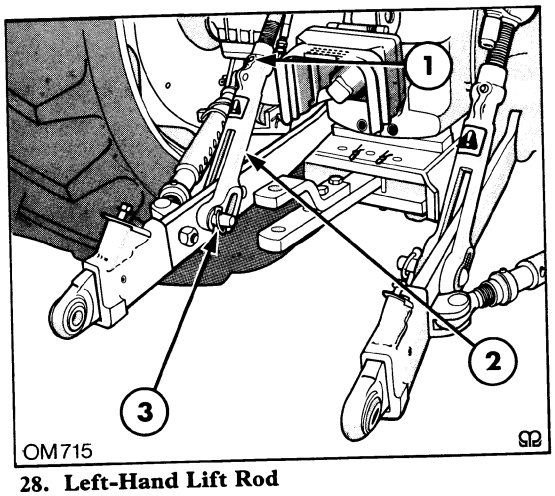
If it is necessary to use jump leads to start the tractor, proceed as follows:

WARNING: *Operate the starting motor only from the Operator's seat. If the neutral start switch is by-passed the engine may be started inadvertently with the transmission in gear.*

Wear eye protection when charging the battery or starting the tractor engine with a slave battery.

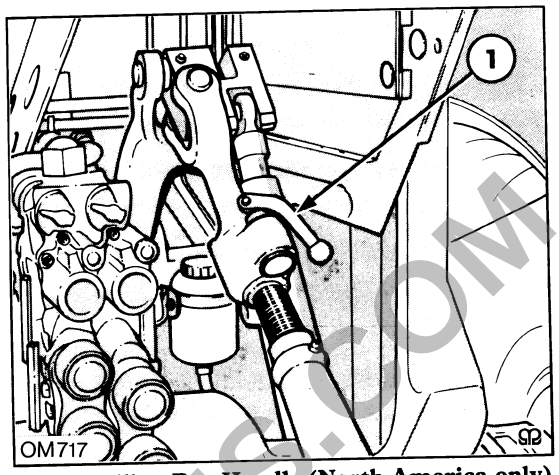
- Connect one end of the jump lead to the tractor battery positive (+) terminal and the other to the auxiliary battery positive (+) terminal.

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28. Left-Hand Lift Rod

1. Grease fitting
2. Lower end of lift rod
3. Securing pin



30. Levelling Box Handle (North America only)

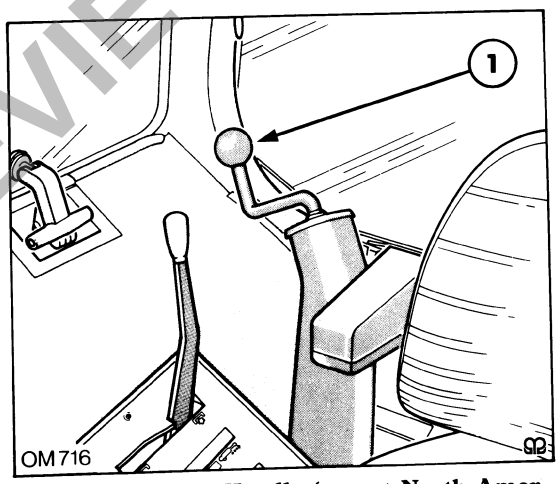
1. Levelling Box Handle

The right-hand lift rod is adjusted by means of a crank handle connected to the levelling box. The handle is located inside the cab to the right of the seat (except North America). Tractors for North America have the handle attached directly to the levelling box. See Figure 29 or 30, as appropriate.

NOTE: *Your tractor is equipped with lift rods having a slot as well as a round hole at the lower end. If the pivot pin is inserted through the slotted hole this will allow an implement vertical movement independent of the tractor which is of benefit when operating with wide implements.*

Turn the handle to lengthen or shorten the lift rod.

There are three holes in the lower links. For most operations the lift rods should be attached to the centre holes. However, the front holes may be used to obtain maximum lift height and the rear holes for increased lift capacity.



29. Levelling Box Handle (except North America)

1. Levelling box handle.

Adjustable Check Chains (where fitted)
Check chains should be installed to control lateral movement of equipment connected to the three-point linkage. See Figure 31.

External check chains are fitted as standard equipment and may be adjusted to suit the implement in use. To adjust, loosen the lock-nut and screw the turnbuckle in or out, as required. Tighten the locknut.

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Ideally for field use, rear wheel ballast should be chosen to provide 10% to 15% wheel slippage since maximum draft efficiency is achieved within this range.

Ballast, however, should not exceed that required to operate the tractor in any ratio below third gear normal (direct drive). Remove ballast if the engine lugs down excessively when operating in the first three gears.

Front end ballast may be required for stability and steering control when weight is transferred from the front to the rear wheels as the implement is raised by the tractor three-point linkage.

As a general guide, four wheel drive tractors should be ballasted so that the weight on the front wheels is approximately 40 – 45% of the total tractor weight.

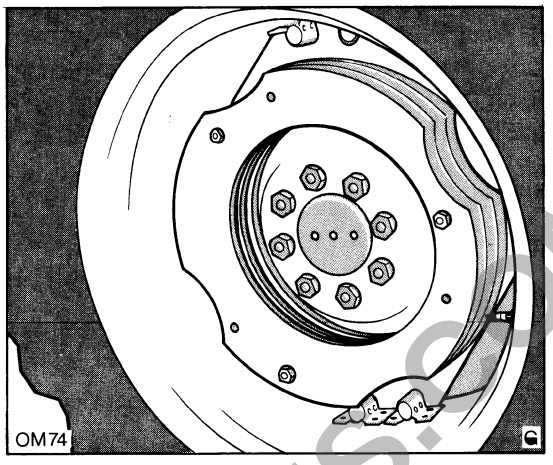
When a rear mounted implement is raised to the transport position, the front wheel weight should be at least 20% of tractor weight.

Add additional front end ballast, as required, for stability during operation and transport. Ballasting of the front end may not always provide stability if the tractor is operated at high speed on rough terrain. Reduce tractor speed and exercise caution under these conditions.

When using front mounted implements, add weight to the rear wheels to maintain traction and stability.

IMPORTANT: *Only sufficient weight should be added to provide traction and stability. Adding more weight than necessary results in unnecessary loads being imposed on the tractor and a higher fuel consumption. When adding weight, adhere to the maximum tyre capacity loading stated in the tables towards the end of the 'Specifications' section of this Manual. If further information or assistance is required on tractor weighting consult your Ford tractor dealer. Do not add weight to the outer wheels of a dual wheel installation.*

NOTE: *North America only – when ballasting the tractor do not exceed the Gross Vehicle Weight as identified on the ROPS.*



56. Rear Wheel Weights

When adding ballast the total weight of the tractor including liquid, cast iron weights and mounted equipment (where specified) should not exceed the following:

WARNING: *If proper stability cannot be achieved within the following weighting limitations, reduce the load on the tractor until stability is restored.*

Weighting Limitations

Total Permissible Tractor Weight inclusive of Ballast: 12175 lb (5523 kg).

Maximum Permissible Rear Axle Loading with Ballast and Mounted Equipment: 12000 lb (5443 kg).

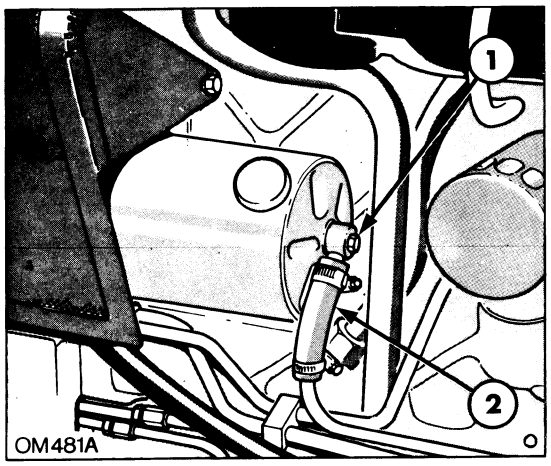
NOTE: *Total rear axle weight is measured with only the rear wheels on the scales inclusive of liquid and cast iron ballast and with mounted equipment in the raised position.*

The total front axle load must not exceed 6750 lb. (3060 kg) or the load capacity of the tyres, whichever is the lower.

NOTE: *The front axle loading includes a front end loader in the raised position but with no load in the bucket.*

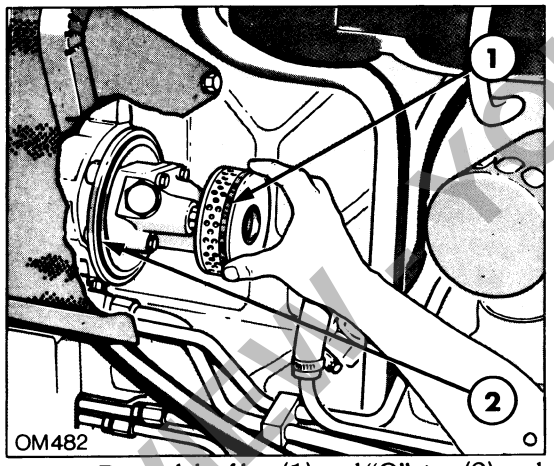
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1200 HOUR/ANNUAL SERVICE (continued)



66. Hydrostatic Steering Oil and Filter

Disconnect the hose (2), remove the bolt (1) and ease the reservoir casing rearwards. Catch the oil in a suitable container ----------



67. ---Discard the filter (1) and "O" ring (2) and clean the pump and reservoir.

Fit a new "O" ring and filter and install the reservoir.

Re-fit the hose and fill the reservoir with fresh oil until the oil overflows the filler neck. Replace the cap.

With the engine running, bleed the system by turning the steering wheel from lock to lock several times. Top up, as required.

SEE SECTION C FOR OIL CAPACITY AND GRADE

68. Air Cleaner

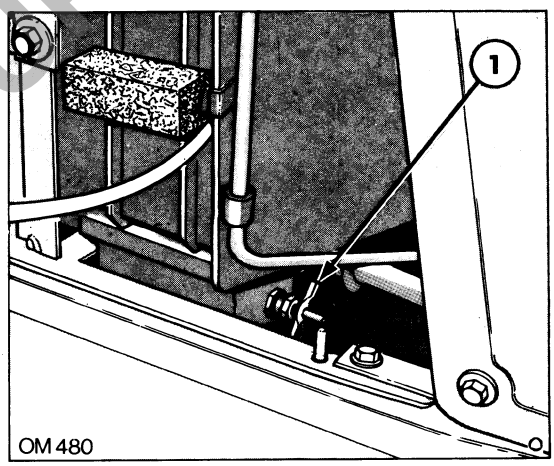
Change the outer element as described in operation 44. The inner element must also be changed every 1200 hours or annually, whichever comes first. This service must be performed by an authorised Ford tractor dealer.

69. Cab Air Filters (where fitted)

Remove the filter elements as described in operation 10 and discard them.

Clean the inside of the filter chamber with a damp, lint-free cloth and install new filter elements.

EVERY 1200 HOURS or TWO YEARS (whichever occurs first) Carry out the preceding checks plus the following:



70. Engine Coolant and Filter

With the engine cool, drain and refill the cooling system and install a new filter as follows:

WARNING: *Coolant should be kept off the skin. Adhere to the precautions outlined on the anti-freeze container.*

If your tractor has a cab, turn the heater temperature control knob to the maximum heat position. The heater shut-off valves (where fitted) on the outlet pipe from the water pump and on the rear of the inlet manifold must also be fully open. Open the drain cock (1) to drain the radiator ----------

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