

COMPACT

FARMTRAC 20/22

OPERATOR MANUAL

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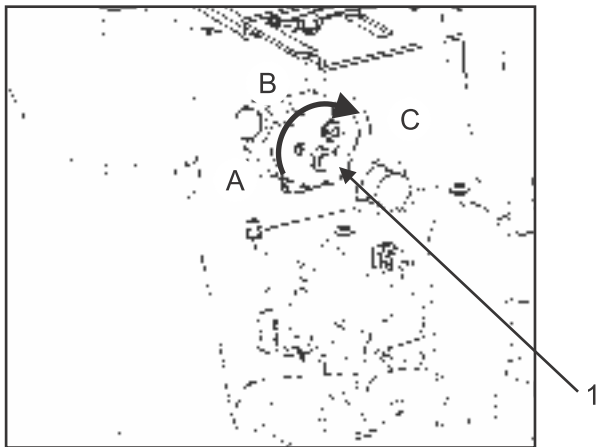
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SAFE OPERATION

5. USING 3-POINT HITCH

1. Use the 3-point hitch only with equipment designed for 3-point hitch usage.
2. When using a 3-point hitch mounted implement, be sure to install the proper counterbalance weight on the front of the tractor.
3. When transporting on the road, set the implement lowering speed knob in the "TRANSPORT LOCK" position to hold the implement in the raised position.



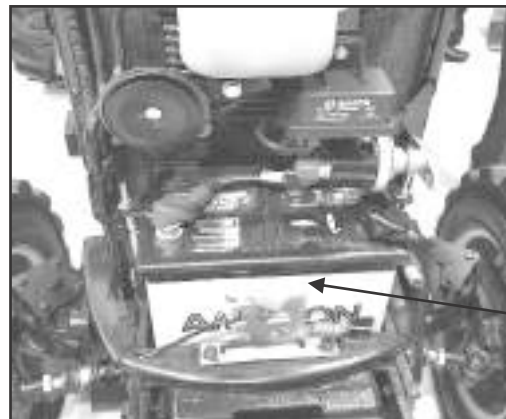
(1) 3-Point Hitch Lowering Speed Knob
(A) "FAST" (B) "SLOW" (C) "TRANSPORT LOCK,"

6. SERVICING THE TRACTOR

Before servicing the tractor, park it on a firm, flat and level surface, set the parking brake, lower all implements to the ground, place the gear shift lever in neutral, stop the engine and remove the key.

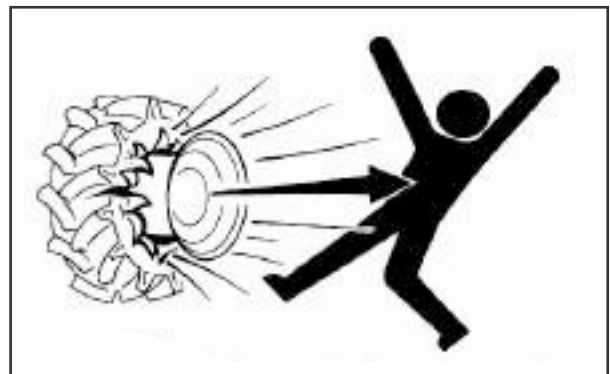
1. Allow the tractor time to cool off before working on or near the engine, muffler, radiator, etc.
2. Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely. If the tractor has a coolant recovery tank, add coolant or water to the tank, not the radiator. (See "Checking Coolant Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)
3. Always stop the engine before refueling. Avoid spills and overfilling.
4. Do not smoke when working around battery or when refueling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosive hazard, because it gives off hydrogen and oxygen especially when recharging.

5. Before "jump starting" a dead battery, read and follow all of the instructions. (See "JUMP STARTING" in "OPERATING THE ENGINE" section.)
6. Keep first aid kit and fire extinguisher handy at all times.
7. Disconnect the battery's ground cable before working on or near electric components.
8. To avoid the possibility of battery explosion, do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER levels.
9. To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable (-) first and reconnect it last.



(1) Battery

10. Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.
11. Always maintain the correct tire pressure. Do not inflate tyres above the recommended pressure shown in the operator's manual.



12. Securely support the tractor when either changing wheels or adjusting the wheel track width.

SPECIFICATION

CAPACITIES		
Fuel Tank capacity, ltr.	24	24
DIMENSIONS (± 2%)		
Length, mm	2260 (with bumper and hook)	2260 (with bumper and hook)
Width, mm	1041	1054
Height, mm	1940 upto ROPS	1940 upto ROPS
Wheelbase, mm	1465	1465
Ground Clearance, mm	290	290
Weight, kg (Unballasted)	850 (With bumper and weight)	850 (With bumper and weight)
Other Features		
Downdraft Exhaust	Standard	Standard
ROPS	E-Marked with beacon lamp	E-Marked with beacon lamp
Engine Shut-off with Key	Standard	Standard
Battery Cut-off Switch	Standard	Standard
Swinging Drawbar	Standard	Standard
Safety Start Switch - PTO	Standard	Standard
Safety Start Switch - Clutch	Standard	Standard
Safety Start Switch - Range Lever	Standard	Standard
Optional Features		
Front Weight	2 No. (15 kg each)	2 No. (15 kg each)

NOTE : For standard / optional features, kindly discuss with your FARMTRAC distributor / Dealer in more detail.

: Industrial and turf tyres are not inter changeable.

OPERATING THE TRACTOR

The various parts are not "broken-in" and are not accustomed to each other; small metal grit may develop during the operation of the tractor; and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than would ordinarily be required. For further details of change interval hours, see MAINTENANCE" section.

BOARDING AND LEAVING THE TRACTOR

1. Never try to get on or off a moving tractor or jump off the tractor to exit.
2. Face the tractor when getting into or out of the tractor. Do not use the controls as hand holds to prevent inadvertent machine movements.
3. Always keep steps and floor clean to avoid slippery conditions.

OPERATING FOLDABLE ROPS

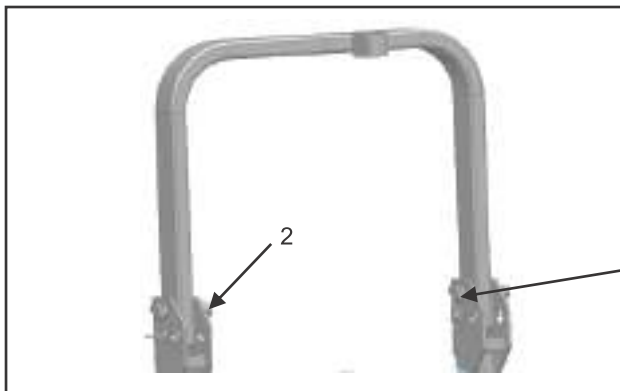
⚠ WARNING

To avoid personal injury or death:

- When raising or folding the ROPS, apply parking brake, stop the engine and remove the key. Always perform function from a stable position at the rear of tractor.
- Fold the ROPS down only when absolutely necessary and fold it up and lock it again as soon as possible.
- Before proceeding to fold ROPS, check for any possible interference with installed implements and attachments. If interference occurs, contact your FARMTRAC Dealer / Distributor.

• To Fold the ROPS

1. Remove both set bolts, maintain a hold on the ROPS.



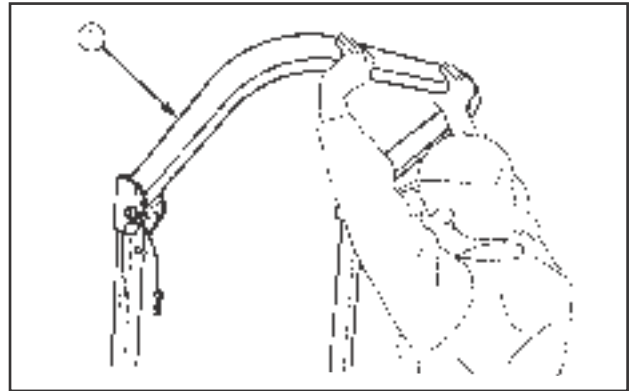
1. Set Bolt 2. Nut

2. Fold the ROPS.

CAUTION

To avoid personal injury:

- Hold the ROPS tightly with both hands and fold the ROPS slowly and carefully.



1. ROPS

3. Insert both set bolts and secure them with the nuts.

CAUTION

To avoid personal injury:

- Make sure that both set bolts are properly installed and secured with the nuts.

To Raise the ROPS to Upright Position

1. Remove both set bolts and nuts.



1. Set Bolt 2. Nut

2. Raise ROPS to the upright position, maintain a hold on the ROPS.

CAUTION

To avoid personal injury:

- Raise the ROPS slowly and carefully.

3. Insert both set bolts and secure them with the nuts.

Adjustment of Foldable ROPS

- Adjust free fall of the ROPS upper frame regularly.
- If you feel less friction in folding the ROPS, tighten the nut (1) until you feel the right friction in the movement.

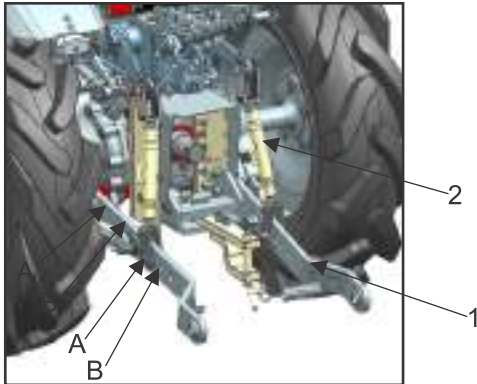
3-POINT HITCH & DRAWBAR

3-POINT HITCH

1. Make preparations for attaching implement.

- Selecting the holes of lifting rods and lower links

There are 2 holes in the lower links. For most operations the lifting rods should be attached to the (A) holes.



(1) Lower Link
(2) Adjustable Lift Rod

NOTE:

- The lifting rods may be attached to (B) hole for lower lifting height, (with increased lifting force)

Selecting the Top Link Mounting Holes



1. Top Link Mounting Hole

2. Attaching and detaching implements

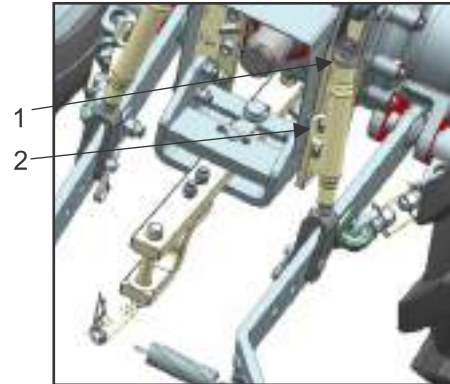
⚠ WARNING

To avoid personal injury or death:

- Be sure to stop the engine and remove the key.
- Do not stand between tractor and implement unless parking brake is applied.
- Before attaching or detaching implement, locate the tractor and implement on a firm, flat and level surface.

■ Leveling Rod (Right)

Level a 3-point mounted implement from side to side by turning the adjusting handle to shorten or lengthen the adjustable lifting rod with the implement on the ground. After adjustment, tighten the lock nut securely.



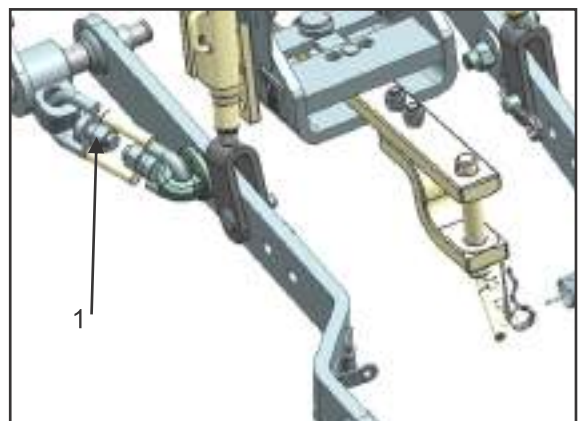
1. Lock Nut 2. Adjusting Handle

■ Top Link

1. Adjust the angle of the implement to the desired position by shortening or lengthening the top link.
2. The proper length of the top link varies according to the type of implement being used.

■ Adjustable Stay-bar

Check chain are provided to control horizontal sway of the implement. Loose both the lock nuts to increase the sway of the implement. Tighten the lock nut for the desired degree of sway.



1. Check Chain

SWINGING DRAWBAR

⚠ WARNING

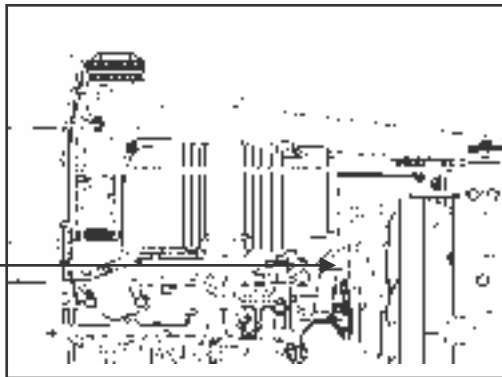
To avoid personal injury or death:

- Never pull from the top link, the rear axle or any point above the draw-bar. Doing so could cause the tractor to tip over rearward causing personal injury or death.

PERIODIC SERVICE

■ Cleaning Evacuator Valve

Open the evacuator valve and clean to get rid of large particles of dust and dirt.



1. Evacuator Valve

Cleaning Grill and Radiator Screen

⚠ WARNING

To avoid personal injury or death:

- Be sure to stop the engine and remove the key before removing the trash guard.
1. Check front grill and side screens to be sure they are clean of debris.
 2. Detach the screen and remove all foreign material and clean the front of radiator completely.



1. Trash Guard

IMPORTANT:

- Grill and Trash Guard must be clean from debris to prevent engine from overheating and to allow good air intake for the air cleaner.

■ Checking Brake Pedal

1. inspect the brake pedals for free travel, and smooth operation.
2. Adjust if incorrect measurement is found: (See "Adjusting Brake Pedal" in "on EVERY SERVICE" in "PERIODIC SERVICE" section.)

■ Checking Gauges, Meter and Instrument Cluster

1. Inspect the instrument panel for broken gauges, meters and Easy Checker (TM).

2. Replace if broken.

Checking Head Light, Hazard Light etc.

1. Inspect the lights for broken bulbs and lenses.
2. Replace if broken.

■ Checking Seat Belt and ROPS

1. Always check condition of seat belt and ROPS attaching hardware before operating tractor.
2. Replace if damaged.

■ Checking and Cleaning of Electrical Wiring and Battery Cables

⚠ WARNING

To avoid personal injury or death:

- A loosened terminal or connector, or damaged wire may affect the performance of electrical components or cause short circuits. Leakage in electrical system could result in a fire hazard, a dead battery or damage to electrical components.
- Replace damaged wires or connections promptly.
- If a fuse blows soon after replacement, DO NOT USE A LARGER THAN RECOMMENDED FUSE OR BYPASS THE FUSE SYSTEM.
- Many wiring connections are protected by waterproof plugs, plug and unplug these connections carefully and make sure they are sealed correctly after assembly.
- Accumulation of dust, chaff or spilled fuel deposits around the battery, electrical wiring, engine or exhaust system are a fire hazard. CLEAN THESE AREAS BEFORE STARTING WORK.

To avoid premature electrical malfunctions DO NOT APPLY high pressure water directly to battery, wiring, connectors, electrical components or instrument panel.

Inspect the following Regularly:

1. Check wiring for chafed or cracked insulation.
2. Check wiring harness clamps. Replace if necessary.
3. Check connectors and terminals for looseness, contamination or overheated (discolored) connections.
4. Check instrument panel for correct operation of switches and gauges. Consult your FARMTRAC Dealer/Distributor regarding maintenance, diagnosis and repair.

■ Checking Movable Parts

If any of the movable parts, such as levers and pedals, is not smoothly moved because of rust or sticky material, do not attempt to force it into motion.

In the above case, remove the rust or the sticky material, and apply oil or grease on the relevant spot, other wise the machine may get damaged.,

STORAGE

⚠ WARNING

To avoid personal injury or death:

- Do not clean the machine while the engine is running.
- To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.
- When storing, remove the key from the key switch to avoid unauthorized persons from operating the tractor and getting injured.

TRACTOR STORAGE

If you intend to store your tractor for an extended period of time, follow the procedures outlined below. These procedures will insure that the tractor is ready to operate with minimum preparation when it is removed from storage.

1. Check the bolts and nuts for looseness, and tighten if necessary.
2. Apply grease to tractor areas where bare metal will rust also to pivot areas.
3. Detach the weights from the tractor body.
4. Inflate the tyres to a pressure a little higher than usual.
5. Change the engine oil and run the engine to circulate oil throughout the engine block and internal moving parts for about 5 minutes.
6. With all implements lowered to the ground, coat any exposed hydraulic cylinder piston rods with grease.
7. Remove the battery from the tractor. Store the battery following the battery storage procedures. (See "Battery" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)
8. Keep the tractor in a dry place where the tractor is sheltered from the elements. Cover the tractor.
9. Store the tractor indoors in a dry area that is protected from sunlight and excessive heat. If the tractor must be stored outdoors, cover it with a waterproof tarpaulin. Jack the tractor up and place blocks under the front and rear axles so that all 4 tyres are off the ground. Keep the tyres out of direct sunlight and extreme heat.

IMPORTANT:

- When washing the tractor, be sure to stop the engine. Allow sufficient time for the engine to cool before washing.
- Cover the tractor after the muffler and the engine have cooled down.

REMOVING THE TRACTOR FROM STORAGE

1. Check the tire air pressure and inflate the tyres if they are low.
2. Jack the tractor up and remove the support blocks from under the front and rear axles.
3. Install the battery. Before installing the battery, be sure it is fully charged.
4. Check the fan belt tension.

5. Check all fluid levels (engine oil, transmission / hydraulic oil, engine coolant and any attached implements).
6. Start the engine. Observe all gauges. If all gauges are functioning properly and reading normal, move the tractor outside. Once outside, park the tractor and let the engine idle for at least 5 minutes. Shut the engine off and walk around tractor and make a visual inspection looking for evidence of oil or water leaks.
7. With the engine fully warmed up, release the parking brake and test the brakes for proper adjustment as you move forward. Adjust the brakes as necessary.

ENGINE STORAGE

The following describes how to store the engine in a not operable condition for three months or more and in an operable condition for three months or more. If the engine has been left unattended for three months or more, the internal engine parts can rust that may cause damage to the engine. When storing the engine for an extended period of time, be sure to follow the directions below.

Storing engine in non operable condition for 3 months or more. Preparation for storage

1. Drain engine oil, and pour in rust-preventive oil (NP-10-2) into the engine.
2. Prepare a fuel mixture containing 50% rust-preventive oil (NP-9), and fill the fuel tank with it.
3. Operate the engine at a speed to 800 to 1000 per min (idling) for 5 to 10 minutes under no load.
4. Immediately before stopping the engine, spray volatile corrosion inhibitor (V.C.I.) through the inlet port to prevent rust on the air intake system.
5. With the engine stopped, drain the fuel mixture from the fuel tank.
6. Apply rust-preventive oil (NP-3) liberally on the exposed sections of the machining.
7. Seal air inlet, exhaust outlet, breather and other openings with an adhesive cloth tope.
8. Loosen V-belt.
9. Wrap adhesive cloth tape on the terminals of the starters and alternator, and seal the openings. Cover these sections with polyethylene sheet or processed polyethylene covers.
10. Disconnect cables from the battery terminals, and charge the battery. Clean the terminals, apply a thin coat of grease to the terminals. and store the battery in a cool and dry room.
11. Cover the entire engine.
12. Completely press the clutch pedal and put the stopper to avoid clutch plate sticking.

NOTE:

- (a) Store the engine in a well-ventilated indoor area.
- (b) No need to drain coolant since it contains LLC. (Add LLC to increase the concentration between 30 and 60%).

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