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Ford

Operator's Manual

1120 Diesel

Compact Tractor

2 & 4 Wheel Drive

Operator's Manual

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FO-O-1120

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FORD
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Operator's Manual

MODEL 1120

Tractor



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MANUAL PREVIEW



F1067

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PLEASE READ CAREFULLY :

For a complete list of the pre-delivery service checks performed by your dealer, refer to PRE-DELIVERY SERVICE on the upper portion of page 61 and 63. The copy on page 61 is your record of the service performed, and the copy on page 63, which is to be removed from the manual, is your dealer's. MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.

After you have operated your tractor for fifty hours, take this manual and your tractor to your dealer. He will then perform the factory recommended 50-HOUR SERVICE as listed on the lower portions of pages 61 and 63 — without charge — except for lubricant, oil, or filters replaced as part of normal maintenance. MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.

A PRODUCT IDENTIFICATION PLATE is located on the left-hand side of the transmission housing. The numbers on the plate are important should your tractor require future service. For your convenience, have your dealer record the numbers in the appropriate spaces below.

A rectangular metal plate with a black background and white text. At the top is the Ford logo. Below it, the text "PRODUCT IDENTIFICATION NUMBER" is followed by a row of asterisks and the letters "UB". Below that, "MODEL" is followed by "AB412T" and "UNIT" is followed by a blank space. Below that, "ENGINE" is followed by "S723-" and a blank space. At the bottom, it says "MADE IN JAPAN".

Ford	
PRODUCT IDENTIFICATION NUMBER	
✱ UB ✱	
MODEL	UNIT
AB412T	
ENGINE	
✱ S723- ✱	
MADE IN JAPAN	

A rectangular metal plate with a black background and white text. At the top is the Ford logo. Below it, the text "PRODUCT IDENTIFICATION NUMBER" is followed by a row of asterisks and the letters "UB". Below that, "MODEL" is followed by "AB4137" and "UNIT" is followed by a blank space. Below that, "ENGINE" is followed by "S723-" and a blank space. At the bottom, it says "MADE IN JAPAN".

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Ford New Holland policy is one of continuous improvement, and the right to change prices, specification or equipment at any time without notice is reserved.

All data given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor please consult your Ford New Holland Dealer.

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CONTROLS AND INSTRUMENTS

SEAT, SEAT BELT AND ROPS TRACTOR SEAT

Your Ford 1120 Tractor is equipped with a molded cushion 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 release lever to the side and slide the seat fore and aft as required, 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.

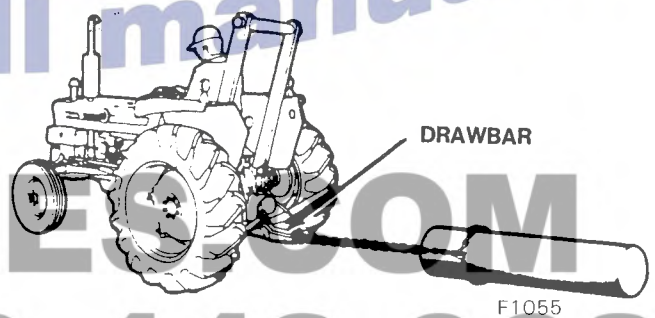
The safety offered by the roll bar and seat belt is minimized if your seat belt is not buckled. Always use your seat belt — they save lives.



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, naptha, 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.

CONTROLS AND INSTRUMENTS

LIGHTING

FLASHER WARNING LAMP

Your Ford tractor is equipped with flasher warning lamps, Figure 3. The switch for the warning lamps is located on the right side of the instrument panel, Figure 4.



Figure 3 — Flasher Warning and Tail Lamp

The light switch must be turned to the "ON" position before the flasher will operate.

For your protection, use the flasher warning lamp and the SMV emblem when traveling on public roads, day or night.

LIGHT SWITCH

The light switch, shown in Figure 4, is a dial type switch. Its positions are :

Turning counter-clockwise "OFF"
Turning clockwise Headlights and Tail Lamps "ON"

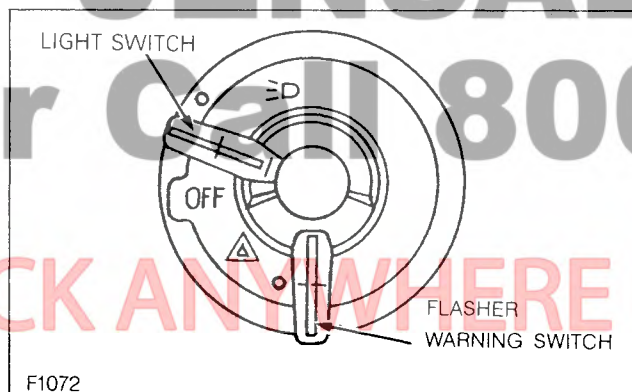


Figure 4 — Combination Switch

INSTRUMENT PANEL

KEY SWITCH

The key switch is shown in Figure 5. Turning the key to the left will activate the cold-start aid. Turning the key to the right to the "on" position will activate the warning lights and instruments. Turning the key further right to the "start" position will start the engine. Upon release, the key will spring return to the "on" position.

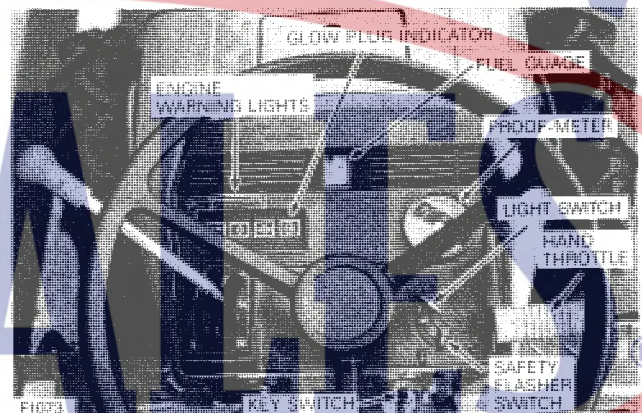


Figure 5 — Instrument Panel

The starting circuit can only be activated when the clutch pedal is fully depressed and the P. T. O. control lever and mid P. T. O. control lever (if equipped) are in the "OFF" position. Always check to make certain the transmission main shift lever and P. T. O. levers are in neutral before attempting to start the engine. Refer to page 13 for complete starting instructions.

IMPORTANT: The key switch must remain in the ON position while operating the engine. The warning lights and battery charging system will not function with the switch in the OFF position.

FUEL GAUGE

The fuel gauge is shown in Figure 6. The gauge indicates the level of fuel in the tank.

CONTROLS AND INSTRUMENTS



Figure 6 – Fuel Gauge

FUEL SHUTOFF VALVE

The fuel shutoff valve is shown in Figure 7. To open the fuel shutoff valve, move the handle so that it points straight up and down. To close the fuel shutoff valve, move the handle to the horizontal position. Always shut off the valve when servicing any portion of the fuel system.

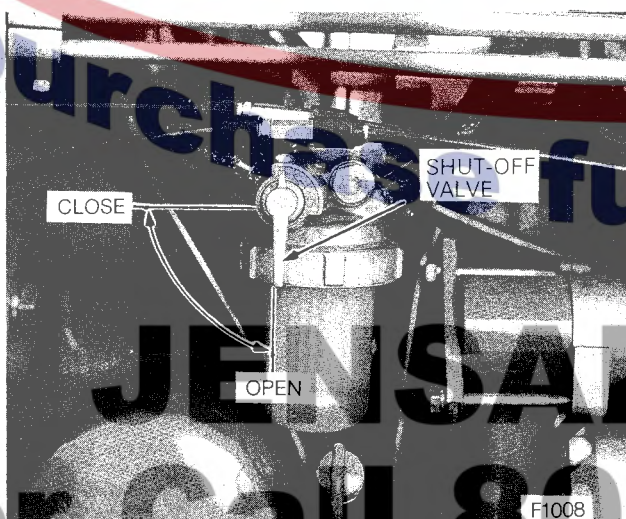


Figure 7 – Fuel Shutoff Valve

WARNING LIGHTS

The engine temperature, oil pressure and charge indicator warning lights are located as shown in Figure 5. When the key switch is turned “on” the oil pressure and charge lights come on. After the engine has been started, the lights should go out within a few seconds. If they do not go out :

- Engine oil pressure warning light : Stop the engine immediately and investigate the cause.

It is important to remember that this light indicates oil pressure only. The operator must regularly check the crankcase for proper oil level.

- Charge indicator warning light : This is an indication that the charging system is not operating normally. Investigate the cause as soon as possible, otherwise the battery will become fully discharged.

- Coolant temperature warning light: The warning light is not on under normal operating conditions. If the light comes on, stop the engine and investigate. Regularly check the radiator for proper coolant level.



WARNING : When engine is at operating temperature always relieve pressure in the cooling system before removing the radiator cap.

- The glow plug indicator warning light : This light comes on when turning the key switch to the “HEAT” position and “START” position. Refer to page 13 for starting engine information.

NOTE : Make certain that all warning lights turn on for a moment when turning the key switch to the “START” position. If one of the warning lights does not turn on, the bulb should be replaced.

PROOF-METER

The Proof-Meter is located on the left side of the instrument panel, Figure 5. The Proof-Meter indicates :

- The hours and portions of hours your tractor has operated, based on an average engine speed of 2000 rpm. Engine speeds below 2000 rpm accumulate engine hours at a slower rate than clock hours. Engine speeds above 2000 rpm accumulate engine hours faster than clock hours. Use the Proof-Meter as a guide to determine hourly service and maintenance intervals.

CONTROLS AND INSTRUMENTS

To apply the parking brake :

- Lock the brake pedals together with the brake pedal lock.
- Depress both brake pedals.
- Push forward on the parking brake latch. The pawl on the control will engage the teeth on the lefthand brake pedal and will retain the pedals in the applied position.

To release the parking brake :

- Depress the brake pedals to release the pawl.
- Unlock the brake pedals if operating conditions require independent rear wheel braking action.

DIFFERENTIAL CONTROL

DIFFERENTIAL LOCK PEDAL

The differential lock pedal is shown in Figure 9.

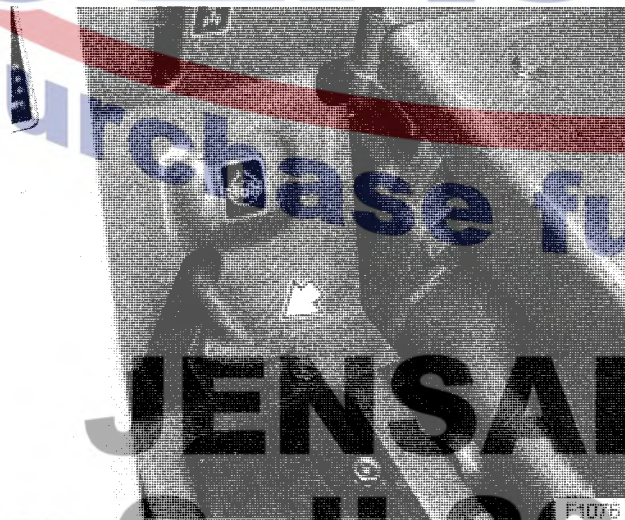


Figure 9 — Differential Pedal

Depressing the pedal locks the rear axle shafts together, providing additional traction in wet or loose soil. Refer to page 17 for differential lock operating information.



WARNING: Tractor is very difficult to steer with differential locked.

MECHANICAL TRANSMISSION AND PTO CONTROLS

TRANSMISSION GEARSHIFT LEVERS

The transmission main shift lever and range selector lever are shown in Figure 10. A diagram showing the shift pattern is on the left side of instrument panel.

Three forward and one reverse speeds are provided for each of the three ranges. This provides a total of 9 fowars and 3 reverse speeds.

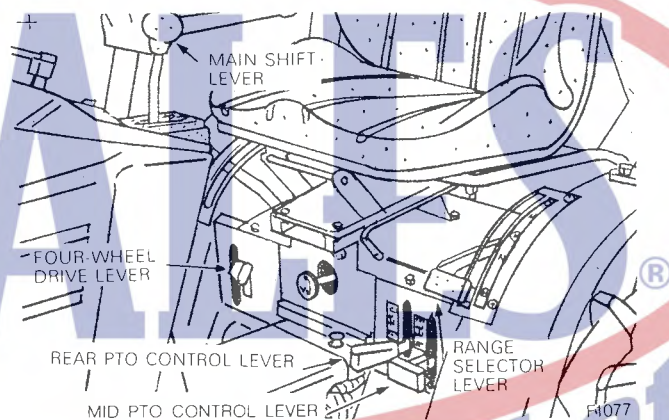


Figure 10 — Transmission and PTO Controls

FOUR-WHEEL DRIVE (OPTIONAL)

The shift lever for the four-wheel drive is located on the right-hand and below the seat, Figure 10. Full upward, the lever disengages the four-wheel drive (OFF). Full downward, it engages the four-wheel drive (ON).

CLUTCH PEDAL

The foot-operated clutch pedal, Figure 11, must be completely depressed to stop forward travel and P. T. O. shaft rotation. Always fully depress the pedal when changing gear ratios or engaging four-wheel drive.

CONTROLS AND INSTRUMENTS

To cancel the speed locking or stop the tractor, move the speed control lever to the "UNLOCK" position. If a higher or lower set speed is desired, release and reset the lever.

The lever does not lock speed when operating in reverse, in which case releasing the rear pedal pad returns the transmission to Neutral, stopping the tractor.

In the interest of safety, the lever should not be put in the "LOCK" position when operating at high speed.

H.S.T. RANGE SELECTOR LEVER

The range selector lever, on the left side of the seat can be shifted when the H.S.T. foot pedal is in the Neutral position and High range ("H"), Low range ("L") or Neutral may be selected. In "H", forward speed ranges from zero to 9.6 mph, and reverse from zero to 6.0 mph. In "L", forward speed ranges from zero to 3.7 mph, and the reverse from zero to 2.3 mph.

HYDRAULIC LIFT SYSTEM CONTROLS

HYDRAULIC LIFT CONTROL LEVER

The hydraulic lift control lever is shown in Figure 14. The lever is located at the right hand side of the seat. To lower the lift arms, push the lever forward. The adjustable stop is provided for retur-



Figure 14 — Hydraulic Lift System Control

ning the lever to a pre-set position in the quadrant. To raise the lift arms, pull lever rearward. The flow control valve must be opened before the hydraulic lift control will function.

FLOW CONTROL VALVE

The flow control valve is shown in Figure 15. Turning the valve "in" (clockwise) will decrease the lowering speed of the lower links, and turning the valve "out" (counterclockwise) will increase the lowering speed of the lower links. Refer to "FLOW CONTROL," page 18, for additional information on operating the flow control valve.

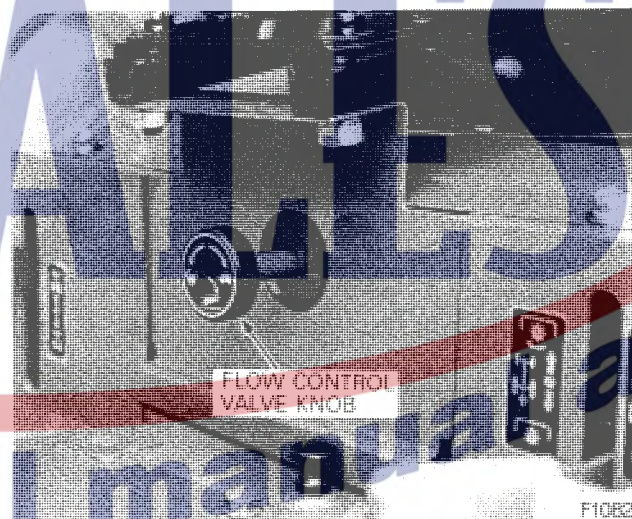


Figure 15 — Hydraulic Flow Control Valve

REMOTE CONTROL VALVES (OPTIONAL)

Your Ford Tractor can be equipped with a single or double-spool remote control valve, which is utilized to operate one or two remote cylinders for mounted implements. Refer to page 19 for operating instructions.

HYDRAULIC MANIFOLD BLOCK

Your Ford Tractor is equipped with a hydraulic manifold block, which can be utilized to supply oil to hydraulic equipment such as a front loader, dozer blade, etc.

Refer to "OPERATING HYDRAULIC MANIFOLD BLOCK" on page 19.