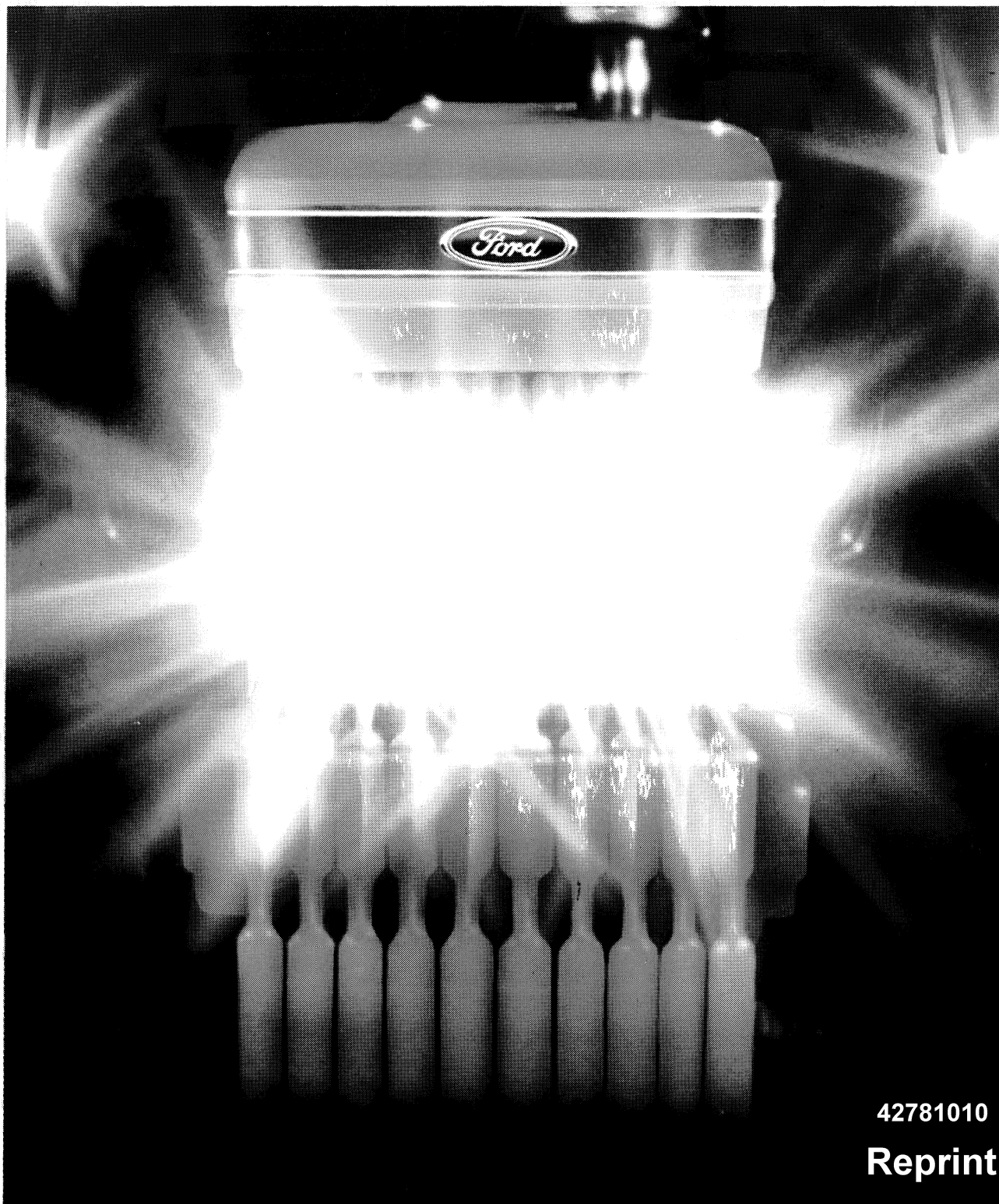


Operator's Manual



FORD 7810

NEW HOLLAND



42781010

Reprint



SUPPLEMENTAL INFORMATION

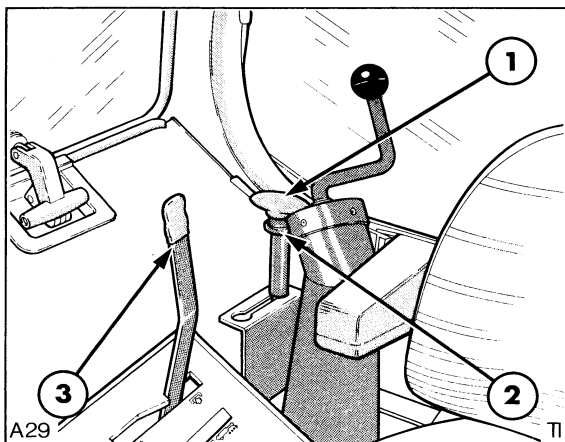


Figure 1

1. P.T.O. range shift lever
2. Spring-loaded collar
3. P.T.O. selector lever

TWO-SPEED SHIFTABLE P.T.O.

Two-speed, independent, shiftable P.T.O. is available as a factory installed option on all models with de-luxe cab (Q cab). The following supplemental information should be read in conjunction with the instructions for operating the P.T.O., as shown in section A of this Manual.

Independent P.T.O. may be engaged or disengaged whether the tractor is moving or stationary. In addition to the P.T.O. selector lever (3) Figure 1, a second lever (1) is used to select the high (1000 P.T.O. rev/min) or low (540 P.T.O. rev/min) ranges.

IMPORTANT: *Although the P.T.O. may be engaged or disengaged with the tractor moving or stationary, do not attempt to change from one speed range to another unless the tractor is stationary and the P.T.O. lever (3) is in the disengaged position.*

Your tractor is supplied with a 6-spline P.T.O. shaft, designed to operate at 540 rev/min. An alternative 21-spline shaft is available from your dealer as an accessory.

Generally speaking, P.T.O. driven equipment having a high power requirement is designed to operate at 1000 P.T.O. rev/min and will be provided with a 21-spline P.T.O. shaft coupling. Operate such equipment in the high speed range.

Equipment not having a high power requirement will run at 540 P.T.O. rev/min and will have a 6-spline coupling. This equipment may be operated in the low speed range at 1900 engine rev/min or in the high speed range at 1130 engine rev/min with a consequent reduction in fuel consumption and engine wear.

NOTE: *Change the P.T.O. shaft, as described in section A of this Manual, to suit the operation and equipment in use. With shiftable P.T.O., it is not necessary to raise the rear of the tractor to prevent loss of oil when changing the shaft.*

To engage a P.T.O. ratio, proceed as follows:

- With the tractor **stationary** and the P.T.O. selector lever (3) Figure 1, in the **disengaged** position, select the required P.T.O. speed range by means of the shift lever (1). Move the lever forward to engage the high speed range (1000 P.T.O. rev/min) or rearwards to select the low range (540 P.T.O. rev/min).

IMPORTANT: *The lever cannot be moved until the spring-loaded collar (2) beneath the shift lever is lifted. This feature is incorporated to prevent inadvertent selection of the high range which could result in overspeeding of a P.T.O.-driven implement.*

NOTE: *If difficulty is experienced in selecting a particular speed range due to alignment of the P.T.O. gear teeth, rotate the P.T.O. shaft a few degrees, by means of the selector lever (3), until the range lever can be moved and the required speed range selected.*

- With the tractor moving or stationary, as required, and the engine turning at less than 1000 rev/min, engage the P.T.O. by means of the lever (3).
- Open the throttle to obtain engine/P.T.O. speeds as shown in the following table:

Range Lever Position	Engine Speed (rev/min)	P.T.O. Speed (rev/min)
Rearward (Low speed)	1900	540
Forward (High speed)	1130	540
Forward (High speed)	2100	1000

DEAR CUSTOMER – PLEASE READ CAREFULLY

The warranty coverage that is extended to your Ford Tractor is explained in the Warranty and Limitation of Liability, Ford Tractor form. Your dealer will provide you with a copy of the warranty and retain a copy which you have signed. After you read the warranty, ask your dealer to explain any points that you may not understand.

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. If you have any questions regarding tractor modifications contact Ford New Holland, Inc., at one of the addresses shown overleaf.

A Roll Over Protective Structure (ROPS) and seat belt were standard equipment for the 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 belt. ROPS safety cabs are effective in reducing injuries during tractor overturn accidents. Overturning a tractor without a ROPS or safety cab can result in serious injury or death.

Roll Over Protective Structure (ROPS) safety cabs and seat belts are available for your Ford tractor. If your tractor is not equipped with a ROPS or safety cab and seat belt see your Ford New Holland Dealer.

Your safety and the safety of those around you depends upon the care and good judgment you use while operating this equipment. Read the safety precautions 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 the following two pages. The first copy is your record of the service performed and the second copy, which is to be removed from the manual, is your dealer's record. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

After you have operated your tractor for fifty hours, take the manual and your tractor to your dealer. He will then perform the factory recommended 50-HOUR SERVICE as listed on the lower portion of the following two pages. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

PARTS AND SERVICE CATALOGUES AVAILABLE!

Ford New Holland is pleased to announce to owners of Ford tractors and equipment the availability of numerous parts and service catalogues.

To obtain these catalogues merely fill out the order form available from your local authorised Ford New Holland Dealer.

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) 491-3499

New Holland

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

Calgary

Box 1616, Main P.O.
Calgary, AB
CANADA T2P 2M7
Telephone: (403) 273-6771

Dallas

P.O. Box 10227
Dallas, TX 75207
Telephone: (214) 939-4950

Fairfield

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

Toronto

P.O. Box 7000
Brampton, ON
CANADA L6V 2M9
Telephone: (416) 457-2720

Kansas City

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

Troy

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

Minneapolis

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

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.



FORD NEW HOLLAND INC. AND
FORD NEW HOLLAND CANADA LTD.

WARRANTY AND LIMITATION OF LIABILITY — COMMERCIAL PRODUCTS

COVERAGE PROVIDED

Ford New Holland Inc. or Ford New Holland Canada Ltd., hereinafter called the "Company" warrants to the retail purchaser of each new Ford brand Commercial Product (as listed below) that the Selling Dealer will repair or replace any part thereof found to be defective in materials or workmanship within the following periods:

BASIC WARRANTY

Table with 2 columns: Commercial Product and Warranty Period. Rows include TW Series Agricultural Tractors (36 Months/2500 Hrs.), Other Agricultural, Industrial and Utility Tractors (12 Months), Equipment, Attachments and Implements for Agricultural, Industrial and Utility Tractors (12 Months), and Compact Loaders (12 months).

Extended Power Train Warranty for Series 1000 through 8000

Selected agricultural tractor power train components on all components on all Series 1000 through 8000 agricultural tractors are covered for a period of 24 months provided that the tractor has not been used more than a total of 1,500 hours. The power train components covered by this warranty consist of the following:

ENGINE — The rocker arm cover, cylinder head, engine block, crankcase pan and timing gear cover of the engine, and the parts fully enclosed within these units.

TRANSMISSION AND REAR AXLE — The clutch housing, transmission case, dual power housing, differential housing, final drive housings, transfer case, front wheel drive housing and parts fully enclosed within these housings, including the drive axles, but excluding the hydraulic lift cover and its components.

The warranty period will begin on date of original retail sale or date of original use, whichever is earlier.

- The obligation of the Company to the purchaser under this warranty is limited to the repair or replacement of defective parts, which will be made free of charge for both parts and labor using Ford New Holland service parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of the Company and the Selling Dealer in respect to such Commercial Products.
• Repairs or replacements will be performed by the Selling Dealer, following delivery of the Commercial Product by the purchaser to the Selling Dealer's place of business.
• If the purchaser has moved a long distance from the Selling Dealer, any Ford New Holland dealer authorized to sell and service Ford brand Commercial Products may perform the repair at its dealership.
• The Selling Dealer shall review these warranty provisions with the purchaser prior to retail sale, secure his acknowledgement of delivery of this warranty and record the date of original retail sale or date of original use.

WHAT IS NOT COVERED BY THE WARRANTY

1. This warranty shall NOT apply under the following conditions:
(i) With respect to vendor warranty items such as tires, tubes, engines and attachments.
(ii) If the unit has been subject to misapplication, abuse, misuse, negligence of proper maintenance or other negligence, fire or other accident.
(iii) If parts other than those made or marketed by Ford New Holland Inc. or Ford New Holland Canada Ltd., have been used in connection with the unit and in the sole judgment of the Company such use affects its performance, stability or reliability.

- (iv) If the unit has been altered or repaired outside of a Ford New Holland dealership in a manner which, in the sole judgment of the Company, affects its performance, stability or reliability.
- (v) With respect to batteries which are covered by a separate pro rata adjustment warranty.
- 2. This warranty shall **NOT** apply to normal maintenance services (such as tune-ups, fuel injection system cleaning and wheel, brake and clutch adjustments), to normal replacement of service items (such as filters and brake or clutch linings), or to normal deterioration due to use or exposure (such as belts and exterior finish).
- 3. This warranty shall **NOT** apply to any Commercial Product which is distributed by anyone other than Ford New Holland Inc. or Ford New Holland Canada Ltd., through its authorized dealer. This warranty shall **NOT** apply to any Commercial Product which is normally operated outside of the United States and/or Canada.

LIMITATIONS, INCLUDING DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Ford New Holland Inc. or Ford New Holland Canada Ltd., does not authorize any person to create for it any other obligation or liability in connection with these commercial products. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS APPLICABLE TO THIS COMMERCIAL PRODUCT IS LIMITED TO THE STATED DURATION OF THIS WRITTEN WARRANTY. NEITHER COMPANY NOR THE SELLING DEALER SHALL BE LIABLE FOR LOSS OF THE USE OF THE COMMERCIAL PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.

RIGHT TO MAKE DESIGN CHANGES

The Company reserves the right to make changes in the design and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

EXTENDED SERVICE PLAN (ESP)

The optional extended service plan has been explained to me and I:

- accept and have signed the completed registration form
- decline the extended service plan

PROTECTIVE EQUIPMENT

Rollover protective structure (ROPS) and seat belts are provided as standard equipment on all Ford brand agricultural (except orchard and vineyard) and industrial tractors and we strongly recommend their use. Customers who elect to remove or not use this equipment do so at their own risk.

- I acknowledge the existence of OSHA regulations pertaining to ROPS. ____
- A PTO master shield has been furnished with delivery of the machine. ____
- The correct Operator's Manual has been furnished. ____
- Safety precautions were explained to me by the selling dealer. ____

PRE-DELIVERY SERVICE – CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

- 1. Tyre pressure
- 2. Air cleaner and hose connections.....
- 3. Radiator coolant level and specific gravity (1.071 – 1.083 at 60°F)
- 4. All belt tensions
- 5. Battery cleanliness, vent openings, electrolyte level, and specific gravity not less than 1.240
- 6. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat ..
- 7. Engine oil level.....
- 8. Hydraulic system (rear axle and transmission) oil level.....
- 9. Upper link, drawbar and pin in position
- 10. Power steering reservoir oil level.....
- 11. Brake pedal free travel equalization and pedal lock.....
- 12. Clutch pedal free travel
- 13. Front wheel toe-in
- 14. Front and rear wheel-to-rim clamp bolts and lock nuts for tightness.....
- 15. Front and rear hub nuts and bolts for tightness.....
- 16. Fuel level
- 17. Sheet metal and paint condition
- 18. Lift rod levelling crank and sleeves for proper operation
- 19. Drain diesel fuel filter and water separator
- 20. Trailer brake reservoir oil level.....

- 21. Front axle differential oil level (four wheel drive only)
- 22. Front axle hub oil level (four wheel drive only)
- 23. Check front weight clamp bolts for tightness
- 24. Check seat mounting and adjustment.....
- 25. Front axle support bolts for tightness
- 26. Front axle spindle nuts for proper tightness
- 27. Cab door and lock operation and seal condition
- 28. Cab interior upholstery, trim and moldings.....
- 29. Cab window operation, window props and latches, seal condition.....
- 30. Cab sun visor operation
- 31. Cab filter installation

6. Hydraulic System:
- Selection lever for Draft and Position Control operation
 - Flow control operation.....
 - Remote control valve including flow control operation
7. Windshield wiper/washer 2 speed operation
8. Heater temperature control
9. Pressurizer fan 3 speed operation
10. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
- 2. Transmission, including clutch
- 3. Steering control.....
- 4. Differential lock engagement and disengagement
- 5. Brake action.....
- 6. All optional equipment and accessories

OPERATIVE SERVICE CHECKS:

All operative checks are to be performed with the tractor at normal operating temperature.

- 1. Lights and instruments for proper operation
- 2. Fluid and oil leaks
- 3. Diesel maximum no-load speed and idle speed adjustments and fuel shut-off
- 4. Throttle linkage adjustment
- 5. P.T.O. engagement and disengagement

SAFETY ITEMS CHECKS:

- 1. ROPS installed.....
- 2. Seat belt installed (with ROPS only).....
- 3. P.T.O. master shield installed.....
- 4. SMV emblem installed
- 5. Safety decals installed
- 6. Flashing lights/tail lights.....
- 7. Safety start switch operation.....
- 8. Park brake operation
- 9. Operator's Manual.....

INSPECTION PERFORMED – WARRANTY EXPLAINED TRACTOR MODEL NO. TRACTOR SERIAL NO.

owner's signature

date

dealer's signature

date

50-HOUR SERVICE – CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

- 1. Tyre pressure
- 2. Air cleaner, pre cleaner and hose connections.....
- 3. Drain diesel fuel filter and water separator and bleed system.....
- 4. Radiator coolant level.....
- 5. All belt tensions
- 6. Battery cleanliness and vent openings, electrolyte level, and specific gravity not less than 1.240
- 7. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat ..
- 8. Drain and refill engine oil
- 9. Replace engine oil filter.....
- 10. Replace hydraulic oil filters
- 11. Clutch pedal free travel
- 12. Brake pedal free travel, equalization and pedal lock.....
- 13. Hydraulic system (rear axle and transmission) oil level
- 14. Power steering reservoir oil level.....
- 15. Front and rear wheel-to-rim clamp bolts and lock nuts for tightness.....
- 16. Check front and rear wheel nuts for tightness

- 17. Adjust valve clearances
- 18. Lubrication fittings and pivots
- 19. Check trailer brake oil reservoir.....
- 20. Change front axle differential oil (four wheel drive only)
- 21. Change front axle hub oil (four wheel drive only)
- 22. Front axle spindle nuts for proper tightness
- 23. Check front weight clamp bolts for tightness
- 24. Cab door and lock operation and seal condition
- 25. Cab interior upholstery, trim and moldings.....
- 26. Cab window operation, window props and latches, seal condition.....
- 27. Cab sun visor operation
- 28. Cab filter installation

5. Hydraulic System:
- Lift control lever adjustment
 - Selection lever for Draft and Position Control operation
 - Flow control operation.....
 - Remote control valve including flow control operation
6. Windshield wiper/washer 2 speed operation
7. Heater temperature control
8. Pressurizer fan 3 speed operation
9. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
- 2. Transmission, including clutch
- 3. Steering control.....
- 4. Differential lock engagement and disengagement
- 5. Brake action.....
- 6. All optional equipment and accessories

SAFETY ITEMS CHECKS:

- 1. ROPS bolt torque.....
- 2. Seat belt condition and bolt torque.....
- 3. Safety start switch.....

INSPECTION PERFORMED – WARRANTY EXPLAINED TRACTOR MODEL NO. TRACTOR SERIAL NO.

owner's signature

date

dealer's signature

date

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