

NEW HOLLAND

Repair Manual - TC 31/35DA Series Tractors

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PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“DANGER”, “WARNING”, and “CAUTION”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

⚠ DANGER ⚠

This word “DANGER” indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

⚠ WARNING ⚠

This word “WARNING” indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

⚠ CAUTION ⚠

This word “CAUTION” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

FAILURE TO FOLLOW THE “DANGER”, “WARNING”, AND “CAUTION” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

The precautionary statement (“IMPORTANT”) is followed by specific instructions. This statement is intended for machine safety.

IMPORTANT: IMPORTANT: *The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

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SAFETY

PRECAUTIONARY STATEMENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

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 roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your New Holland Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. 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.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.

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 pressure to escape before removing the cap enTYREly.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.

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. Keep open flame or cold weather starting aids away from the battery 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. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
 - 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.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a New Holland Dealer.
8. 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.
9. 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.

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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.

10. Some components of 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 advised to have any maintenance or repair on such components carried out by an authorized New Holland Dealer. However, if 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.

OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO 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.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
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 or illness.

8. If the power steering or engine ceases operating, stop the tractor immediately.
9. Pull only from the drawbar or the lower link drawbar in the down position. 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 or transporting equipment. Ensure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
12. Do not leave equipment in the raised 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. When operating at night, adjust lights to prevent blinding oncoming drivers.

DRIVING THE TRACTOR

1. Watch where you are going, especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two-wheel braking, lock tractor brake pedals together when transporting on roads.
4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.
5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.
6. If the tractor becomes stuck or the tyres become frozen to the ground, back up the tractor to prevent upset.
7. Always check overhead clearance, especially when transporting the tractor.
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14. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO 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.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
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 or illness.

DRIVING THE TRACTOR

1. Watch where you are going, especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two-wheel braking, lock tractor brake pedals together when transporting on roads.
4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.
5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.
6. If the tractor becomes stuck or the tyres become frozen to the ground, back up the tractor to prevent upset.
7. Always check overhead clearance, especially when transporting the tractor.
8. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE PTO

1. When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary PTO driven equipment, always place both gear shift levers in neutral, apply the tractor parking brake, and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog, or service PTO driven equipment when the tractor engine is running.
5. Ensure the PTO master shield is installed at all times. Always replace the PTO shield cap when the PTO is not in use.

DIESEL FUEL

1. UNDER NO CIRCUMSTANCES should gasoline, alcohol, or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. DO NOT USE THESE BLENDS.
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.

**WHEN YOU SEE THIS SYMBOL****IT MEANS:****ATTENTION!****BECOME ALERT!****YOUR SAFETY IS INVOLVED!****OPERATING THE PTO**

6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a New Holland approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

SAFETY FRAME (ROPS)

Your New Holland tractor is equipped with a safety frame. It must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

UNDER NO CIRCUMSTANCES should you:

- modify, drill, or alter the safety frame in any way. Doing so may render you liable to legal prosecution.
- attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. Doing so may weaken the structure and endanger your safety.
- secure any parts on the main frame or attach your safety frame with anything other than the special high tensile bolts and nuts specified.
- attach chains or ropes to the main frame for pulling purposes.
- take unnecessary risks even though your safety frame affords you the maximum protection possible.

DIESEL FUEL

1. UNDER NO CIRCUMSTANCES should gasoline, alcohol, or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. DO NOT USE THESE BLENDS.
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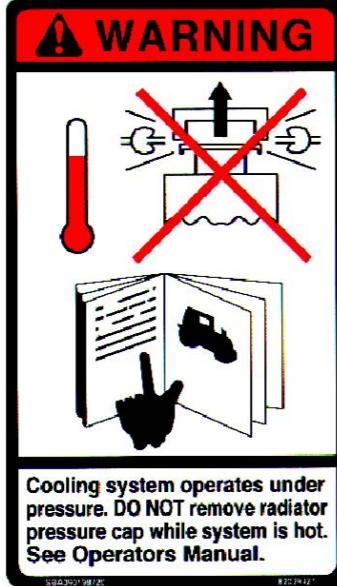
DECALS

If safety or instruction decals become damaged or illegible, new decals should be obtained from your New Holland Dealer and placed at their original positions.

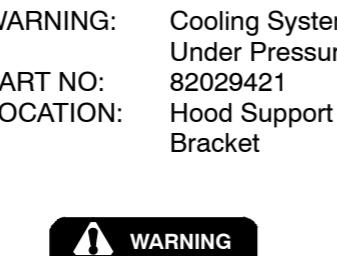
SAFETY DECALS



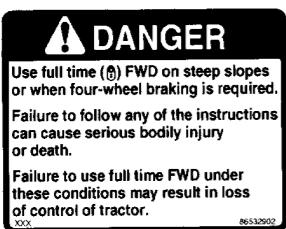
WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



WARNING: To Jump Start
PART NO: 86402367
LOCATION: Front Side of Battery Box



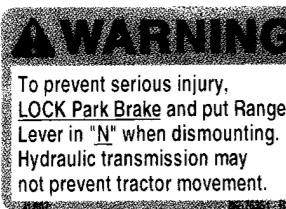
WARNING: Cooling System Under Pressure
PART NO: 82029421
LOCATION: Hood Support Bracket



WARNING: Front-Wheel Drive Usage (Super Steer only)
PART NO: 86532902
LOCATION: Inside Left-Hand Fender



WARNING: Before Starting and Operating
PART NO: 86532909
LOCATION: Inside Left-Hand Fender



WARNING: Lock Park Brake
PART NO: 86576391
LOCATION: Dash Panel
Below Light Switch

WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both Sides of Radiator

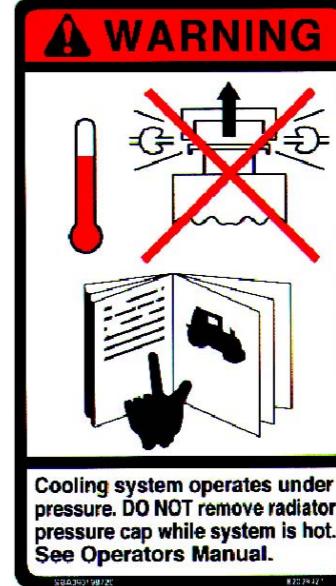
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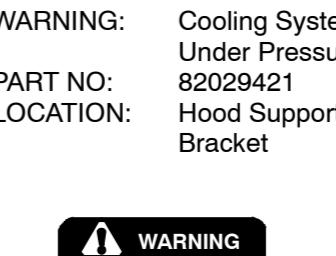
SAFETY DECALS



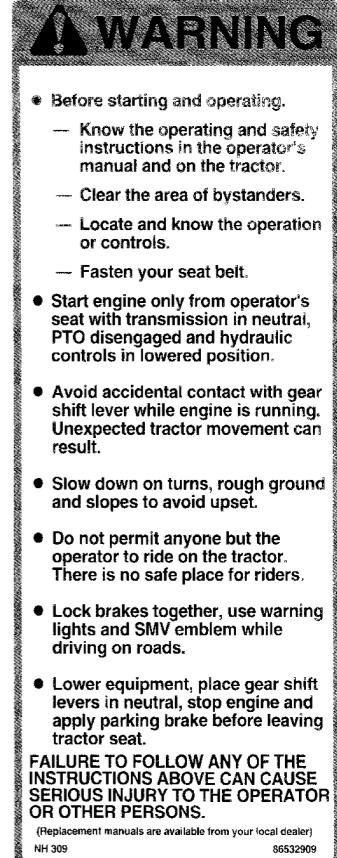
WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



WARNING: To Jump Start
PART NO: 86402367
LOCATION: Front Side of Battery Box



WARNING: Cooling System Under Pressure
PART NO: 82029421
LOCATION: Hood Support Bracket

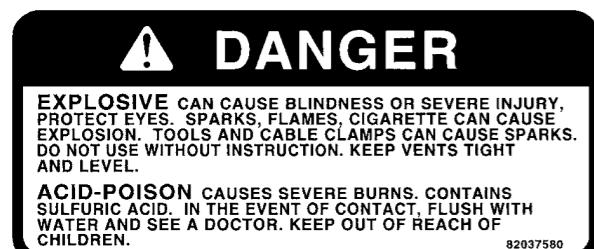


WARNING: Before Starting and Operating
PART NO: 86532909
LOCATION: Inside Left-Hand Fender



WARNING: Lock Park Brake
PART NO: 86576391
LOCATION: Dash Panel
Below Light Switch

WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both Sides of Radiator



DANGER: Battery Safety
PART NO: 82037580
LOCATION: Front Side of Battery Box



WARNING: Operate Controls only from Tractor Seat
PART NO: 87300025
LOCATION: Rear of Right Fender



DANGER: Battery Safety
PART NO: 82037580
LOCATION: Front Side of Battery Box



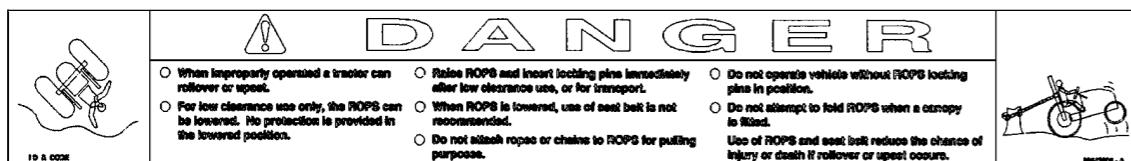
WARNING: Operate Controls only from Tractor Seat
PART NO: 87300025
LOCATION: Rear of Right Fender



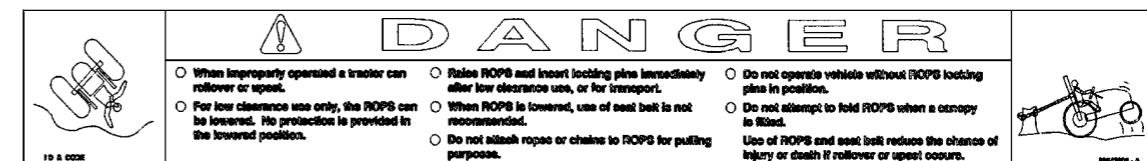
WARNING: Start Engine only from Operator's Seat
PART NO: 82985062
LOCATION: Left Side of Firewall above Starter



WARNING: Start Engine only from Operator's Seat
PART NO: 82985062
LOCATION: Left Side of Firewall above Starter



DANGER: ROPS
PART NO: 86543805
LOCATION: Top Under Side of ROPS



DANGER: ROPS
PART NO: 86543805
LOCATION: Top Under Side of ROPS

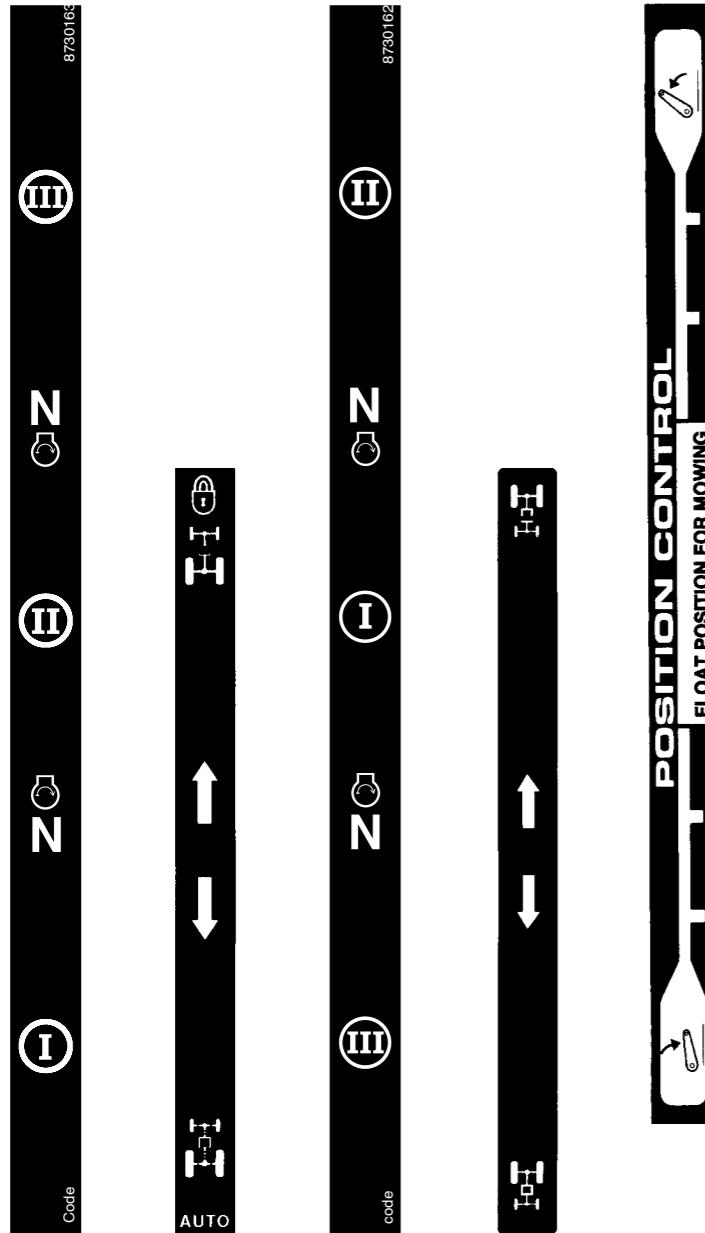
INSTRUCTION DECALS

Range Selector
Lever
(Gear)
PART NO:
87301630
LOCATION:
Left-Hand POD Top

Range Selector
Lever
(Hydrostatic)
PART NO:
87301627
LOCATION:
Left-Hand POD Top

Position Control
Lever
PART NO:
86571897
LOCATION:
Right-Hand POD Top

(Optional)
Operating Remote
Control
Valve-Single
Spool
PART NO:
86532910
LOCATION:
Right-Hand POD Top



Front-Wheel
Drive Control
Lever
PART NO:
86532913
LOCATION:
Left-Hand POD Top
(Super Steer™ only)

Front-Wheel
Drive Control
Lever
PART NO:
86532900
LOCATION:
Left-Hand POD Top

PTO Control
Lever (Rear)
PART NO:
87301628
LOCATION:
Left-Hand POD Top

PTO Control
Lever (Mid)
PART NO:
87301629
LOCATION:
Left-Hand POD Top

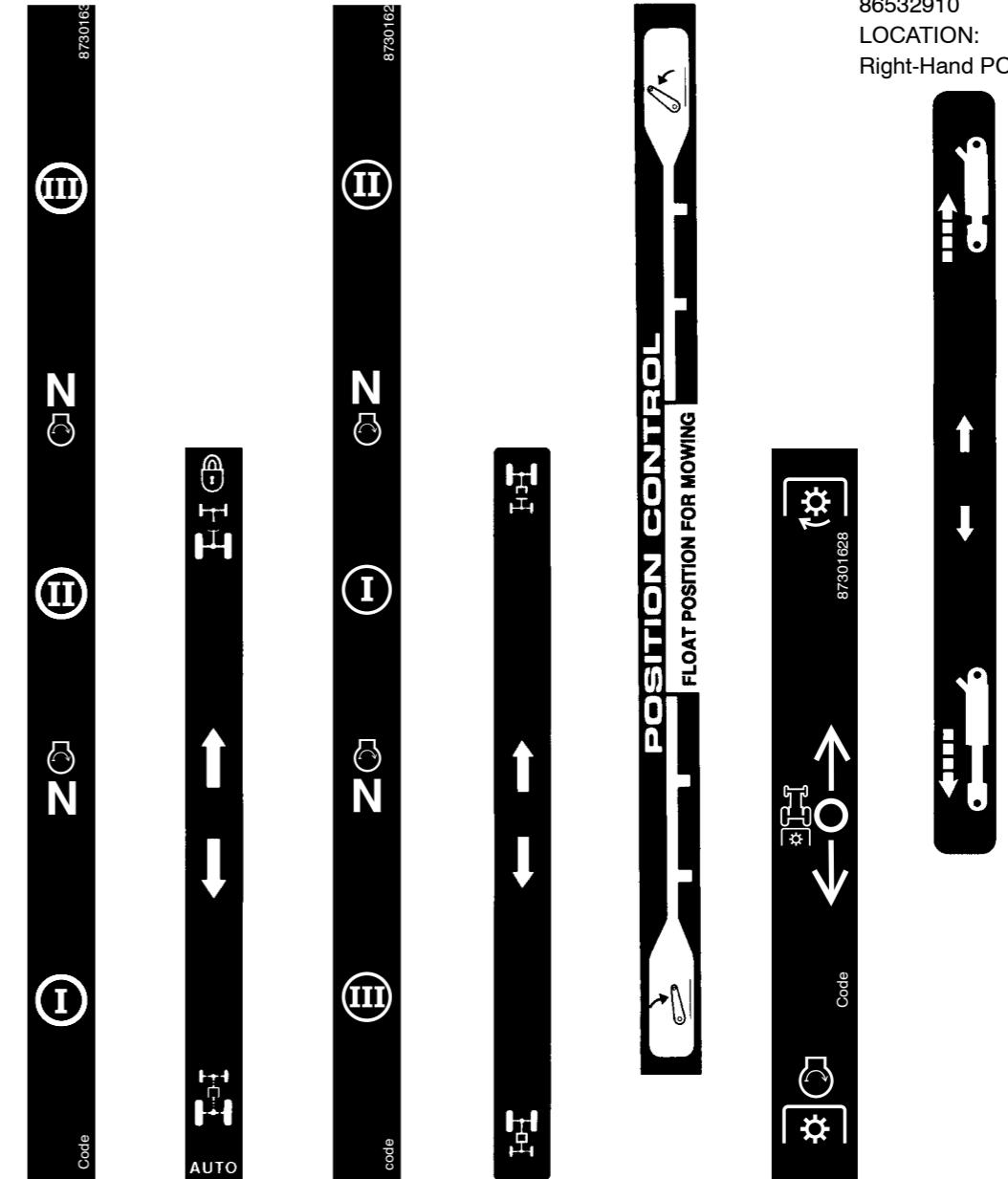
INSTRUCTION DECALS

Range Selector
Lever
(Gear)
PART NO:
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LOCATION:
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Range Selector
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(Hydrostatic)
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LOCATION:
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Position Control
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PART NO:
86571897
LOCATION:
Right-Hand POD Top

(Optional)
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Control
Valve-Single
Spool
PART NO:
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LOCATION:
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Front-Wheel
Drive Control
Lever
PART NO:
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LOCATION:
Left-Hand POD Top
(Super Steer™ only)

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Drive Control
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PTO Control
Lever (Rear)
PART NO:
87301628
LOCATION:
Left-Hand POD Top

PTO Control
Lever (Mid)
PART NO:
87301629
LOCATION:
Left-Hand POD Top



Differential Lock
PART NO:
86532901
LOCATION:
Left Side Operator's Platform (HST)
Right Side Operator's Platform (Gear)



Starter Switch
PART NO:
86400175
LOCATION:
Right Console Panel



Flow Control Valve
PART NO:
86532897
LOCATION:
Top of Flow Control Knob



Engine Oil
PART NO:
86532916
LOCATION:
Engine Oil Filler Cap



Hyd. Manifold Operation
(See Operator's Manual)
PART NO:
86532914
LOCATION:
Top Side of Hyd.
Manifold/Air Filter Cap



(Optional)
Coupler-Extending
PART NO:86532920



(Optional)
Coupler-Retracting
PART NO:86532919



(Optional)
Coupler-Extending
PART NO:86532921



(Optional)
Coupler-Retracting
PART NO:86532922



Differential Lock
PART NO:
86532901
LOCATION:
Left Side Operator's Platform (HST)
Right Side Operator's Platform (Gear)



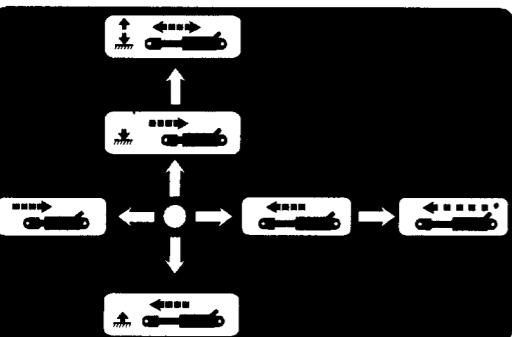
Starter Switch
PART NO:
86400175
LOCATION:
Right Console Panel



Flow Control Valve
PART NO:
86532897
LOCATION:
Top of Flow Control Knob



Engine Oil
PART NO:
86532916
LOCATION:
Engine Oil Filler Cap

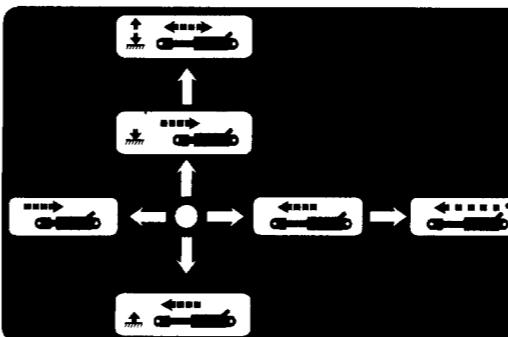


Optional)
Operating Remote Control Valve-
Double Spool
PART NO:
86532911
LOCATION:
Cover of 2-Spool Remote Valve

Lubrication and
Maintenance Intervals
PART NO:
86400357
LOCATION:
Inside of Hood

WATCH YOUR PROOF METER HOURS Lubrication and maintenance service intervals					
LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	LUBE	CHANGE	ADJUST
Radiator Coolant	•	•	•	•	•
Engine Oil level	•	•	•	•	•
Air Cleaner	•	•	•	•	•
Transmission Oil Level	•	•	•	•	•
Front Diff Oil Level	•	•	•	•	•
Front Axle Oil Level	•	•	•	•	•
Tires	•	•	•	•	•
Clutch Pedal	•	•	•	•	•
Battery	•	•	•	•	•
Lubrication Fittings	•	•	•	•	•
Steering Linkage	•	•	•	•	•
2-Wheel Drive King Pins	•	•	•	•	•
2-Wheel Drive Pivot Shaft	•	•	•	•	•
Brake Pedal	•	•	•	•	•
Drive Shaft Cover	•	•	•	•	•
H.S.T. Axle Pivot Shaft	•	•	•	•	•
Power Steering	•	•	•	•	•
Super Steer Gearbox	•	•	•	•	•
Engine Oil	•	•	•	•	•
Fuel Filter	•	•	•	•	•
Air Cleaner	•	•	•	•	•
Brake Oil Filter	•	•	•	•	•
Fan Filter	•	•	•	•	•
Fan Belt	•	•	•	•	•
Brakes	•	•	•	•	•
H.S.T. Filter	•	•	•	•	•
Front Axle Oil	•	•	•	•	•
Front Diff Oil	•	•	•	•	•
Hydraulic Filter	•	•	•	•	•
Transmission Oil	•	•	•	•	•
Fuel Injectors	•	•	•	•	•
Valve Clearance	•	•	•	•	•
Front Wheel Bearings	•	•	•	•	•
Power Steering Oil	•	•	•	•	•
Super Steer Gearbox	•	•	•	•	•
Radiator Coolant	•	•	•	•	•
Air Cleaner Element	•	•	•	•	•

Refer to your Operator's Manual
for additional information.

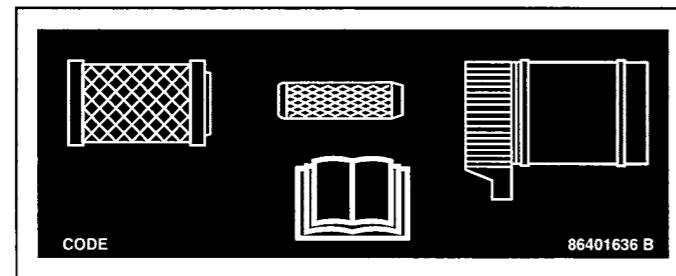


Optional)
Operating Remote Control Valve-
Double Spool
PART NO:
86532911
LOCATION:
Cover of 2-Spool Remote Valve

Lubrication and
Maintenance Intervals
PART NO:
86400357
LOCATION:
Inside of Hood

WATCH YOUR PROOF METER HOURS Lubrication and maintenance service intervals					
LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	LUBE	CHANGE	ADJUST
Radiator Coolant	•	•	•	•	•
Engine Oil level	•	•	•	•	•
Air Cleaner	•	•	•	•	•
Brake Oil Filter	•	•	•	•	•
Fan Filter	•	•	•	•	•
Fan Belt	•	•	•	•	•
Brakes	•	•	•	•	•
H.S.T. Filter	•	•	•	•	•
Front Axle Oil	•	•	•	•	•
Front Diff Oil	•	•	•	•	•
Hydraulic Filter	•	•	•	•	•
Transmission Oil	•	•	•	•	•
Fuel Injectors	•	•	•	•	•
Valve Clearance	•	•	•	•	•
Front Wheel Bearings	•	•	•	•	•
Power Steering Oil	•	•	•	•	•
Super Steer Gearbox	•	•	•	•	•
Radiator Coolant	•	•	•	•	•
Air Cleaner Element	•	•	•	•	•

Refer to your Operator's Manual
for additional information.



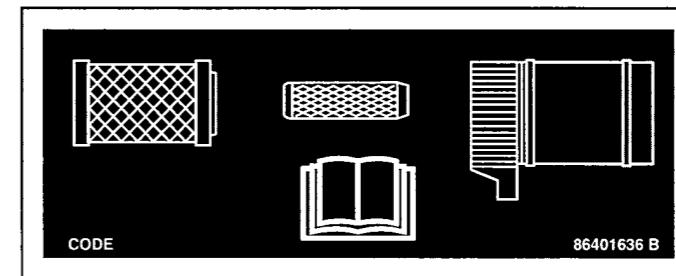
Air Cleaner Maintenance
PART NO: 86401636
LOCATION: Air Cleaner Canister



Turn Signal
PART NO: 86400176
LOCATION: On Turn Signal Switch Knob



Throttle
PART NO: FONN9N848BA
LOCATION: Top Right Dash



Air Cleaner Maintenance
PART NO: 86401636
LOCATION: Air Cleaner Canister



Turn Signal
PART NO: 86400176
LOCATION: On Turn Signal Switch Knob



Red Reflective Tape
PART NO: 86532998
LOCATION: On Turn Signal Switch Knob

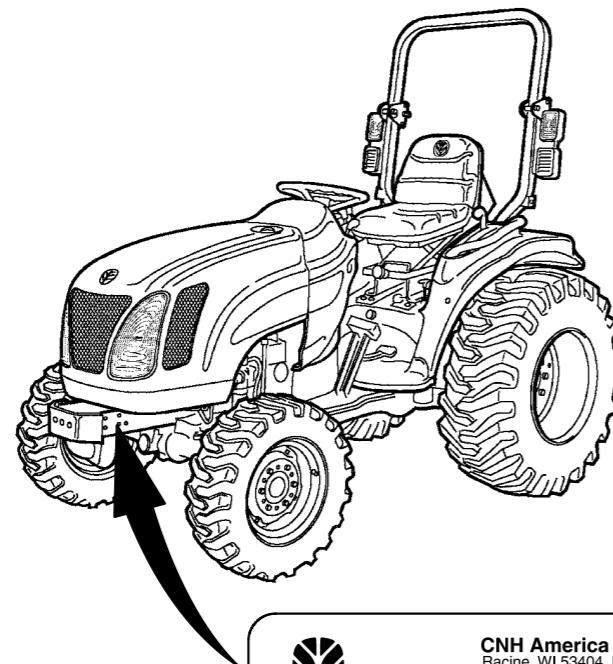


Red Reflective Tape
PART NO: 86532998
LOCATION: On Turn Signal Switch Knob

PLEASE READ CAREFULLY:

For a complete list of the pre-delivery service checks performed by your dealer, refer to the PRE-DELIVERY SERVICE checklist found at the back of this manual. Keep one copy as your record of the service performed. The other copy should be removed from the manual and kept by your dealer. **MAKE SURE THAT BOTH COPIES ARE COMPLETED AND THAT YOU AND THE DEALER SIGN BOTH COPIES.**

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



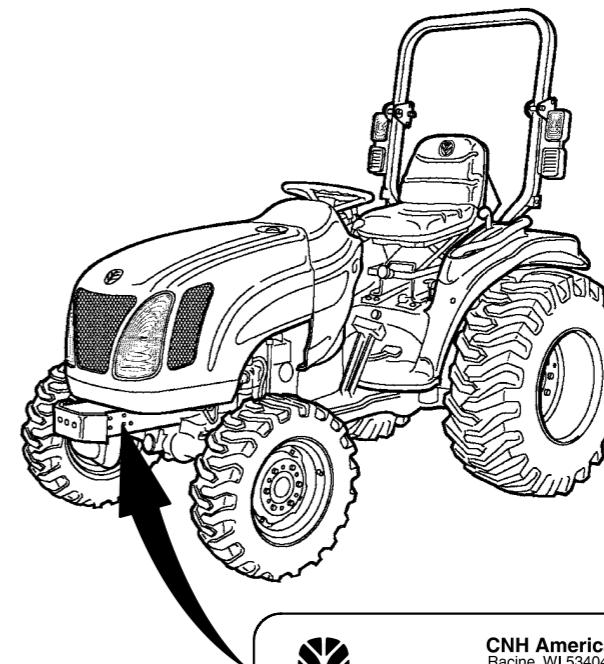
50035995

 NEW HOLLAND		CNH America LLC Racine, WI 53404 U.S.A.	
Made In Japan			
Product Identification Number			
<input style="width: 100px; height: 20px; border: 1px solid black;" type="text"/>		<input style="width: 100px; height: 20px; border: 1px solid black;" type="text"/>	
Engine	Unit	Transmission	Model
<input style="width: 100px; height: 20px; border: 1px solid black;" type="text"/>		<input style="width: 100px; height: 20px; border: 1px solid black;" type="text"/>	

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ECOLOGY AND THE ENVIRONMENT

Soil, air, and water are vital factors of agriculture and life in general. When legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, antifreeze, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose of these substances. Agricultural consultants will, in many cases, be able to help you as well.

HELPFUL HINTS

1. Avoid filling tanks using cans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which may be harmful to your health.

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HELPFUL HINTS

1. Avoid filling tanks using cans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which may be harmful to your health.

3. Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.

4. Avoid spillage when draining off used engine coolant mixtures, engine, gearbox and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.

5. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.

6. Do not open the air-conditioning system yourself. It contains gases which should not be released into the atmosphere. Your dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system properly.

7. Repair any leaks or defects in the engine cooling or hydraulic system immediately.

8. Do not increase the pressure in a pressurized circuit as this may lead to a component failure.

9. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, allowing the loss of oils, coolant, etc.

INTERNATIONAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.

	Thermostat starting aid		Radio		P.T.O.		Position Control
	Alternator charge		Keep alive memory		Transmission in neutral		Draft Control
	Fuel level		Turn signals		Creeper gears		Accessory socket
	Automatic Fuel shut-off		Turn signals - one trailer		Slow or low setting		Implement socket
	Engine speed (rev/min x 100)		Turn signals - two trailers		Fast or high setting		%age slip
	Hours recorded		Front wind-screen wash/wipe		Ground speed		Hitch raise (rear)
	Engine oil pressure		Rear wind-screen wash/wipe		Differential lock		Hitch lower (rear)
	Engine coolant temperature		Heater temperature control		Rear axle oil temperature		Hitch height limit (rear)
	Coolant level		Heater fan		Transmission oil pressure		Hitch disabled
	Tractor lights		Air conditioner		FWD engaged		Hydraulic and transmission filters
	Headlamp main beam		Air filter blocked		FWD disengaged		Remote valve extend
	Headlamp dipped beam		Parking brake		Remote valve retract		Remote valve retract
	Work lamps		Brake fluid level		Warning!		Remote valve float
	Stop lamps		Hazard warning lights		Malfunction! See Operator's Manual		Malfunction! See Operator's Manual
	Horn		Trailer brake		Variable control		Roof beacon
			Warning! Corrosive substance		Pressurized! Open carefully		Warning! Corrosive substance

INTERNATIONAL SYMBOLS

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	Thermostat starting aid		Radio		P.T.O.		Position Control
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	Hours recorded		Front wind-screen wash/wipe		Ground speed		Hitch raise (rear)
	Engine oil pressure		Rear wind-screen wash/wipe		Differential lock		Hitch lower (rear)
	Engine coolant temperature		Heater temperature control		Rear axle oil temperature		Hitch height limit (rear)
	Coolant level		Heater fan		Transmission oil pressure		Hitch disabled
	Tractor lights		Air conditioner		FWD engaged		Hydraulic and transmission filters
	Headlamp main beam		Air filter blocked		FWD disengaged		Remote valve extend
	Headlamp dipped beam		Parking brake		Remote valve retract		Remote valve retract
	Work lamps		Brake fluid level		Warning!		Remote valve float
	Stop lamps		Hazard warning lights		Malfunction! See Operator's Manual		Malfunction! See Operator's Manual
	Horn		Trailer brake		Variable control		Roof beacon
			Warning! Corrosive substance		Pressurized! Open carefully		Warning! Corrosive substance

SPECIFICATIONS

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
ENGINE		
Type	Diesel	Diesel
Engine Gross Horsepower	23.1 kw (31)	26.1 kw (35)
Cylinders	3	3
Bore	84 mm (3.31")	84 mm (3.31")
Stroke	80 mm (3.15")	100 mm (3.94")
Displacement	1.33 L (81.2 cu. in.)	1.65 L (101.1 cu. in.)
Compression Ratio	22.7:1	22.2:1
Firing Order	1-2-3	1-2-3
Low Idle Speed	1000 RPM	1000 RPM
Maximum Speed:		
High Idle	2840 ± 25 RPM	2840 ± 25 RPM
Rated	2600 RPM	2600 RPM
Valve Clearance (Cold):		
Intake	0.20 mm (0.008")	0.20 mm (0.008")
Exhaust	0.20 mm (0.008")	0.20 mm (0.008")

CAPACITIES

Fuel Tank	27.6 liters/ 7.3 U.S. gals.	27.6 liters/ 7.3 U.S. gals.
Cooling System	5.2 liters/ 5.5 U.S. qts.	5.2 liters/ 5.5 U.S. qts.
Engine Crankcase:		
With Filter	4.0 liters/ 4.2 U.S. qts.	4.0 liters/ 4.2 U.S. qts.
Rear Axle & Transmission (Includes Hydraulics)		
Gear	32.5 liters/ 8.6 U.S. gals.	32.5 liters/ 8.6 U.S. gals.
HST	33.3 liters/ 8.8 U.S. gals.	33.3 liters/ 8.8 U.S. gals.
Front Axle Final Reduction	0.8 liters/ 0.85 U.S. qts.	0.8 liters/ 0.85 U.S. qts.
Differential Gear Case	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.

SPECIFICATIONS

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
ENGINE		
Type	Diesel	Diesel
Engine Gross Horsepower	23.1 kw (31)	26.1 kw (35)
Cylinders	3	3
Bore	84 mm (3.31")	84 mm (3.31")
Stroke	80 mm (3.15")	100 mm (3.94")
Displacement	1.33 L (81.2 cu. in.)	1.65 L (101.1 cu. in.)
Compression Ratio	22.7:1	22.2:1
Firing Order	1-2-3	1-2-3
Low Idle Speed	1000 RPM	1000 RPM
Maximum Speed:		
High Idle	2840 ± 25 RPM	2840 ± 25 RPM
Rated	2600 RPM	2600 RPM
Valve Clearance (Cold):		
Intake	0.20 mm (0.008")	0.20 mm (0.008")
Exhaust	0.20 mm (0.008")	0.20 mm (0.008")

CAPACITIES

Fuel Tank	27.6 liters/ 7.3 U.S. gals.	27.6 liters/ 7.3 U.S. gals.
Cooling System	5.2 liters/ 5.5 U.S. qts.	5.2 liters/ 5.5 U.S. qts.
Engine Crankcase:		
With Filter	4.0 liters/ 4.2 U.S. qts.	4.0 liters/ 4.2 U.S. qts.
Rear Axle & Transmission (Includes Hydraulics)		
Gear	32.5 liters/ 8.6 U.S. gals.	32.5 liters/ 8.6 U.S. gals.
HST	33.3 liters/ 8.8 U.S. gals.	33.3 liters/ 8.8 U.S. gals.
Front Axle Final Reduction	0.8 liters/ 0.85 U.S. qts.	0.8 liters/ 0.85 U.S. qts.
Differential Gear Case	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
COOLING SYSTEM		
Type	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass
Water Pump:		
Type	Centrifugal	Centrifugal
Drive	V-Belt	V-Belt
Belt		
Deflection	10 - 15 mm (7/16 - 9/16") when 9 - 11 kg (20 - 25 lbs.) thumb pressure is applied midway between belt pulleys	10 - 15 mm (7/16 - 9/16") when 9 - 11 kg (20 - 25 lbs.) thumb pressure is applied midway between belt pulleys
Fan Diameter	340 mm (13.4")	340 mm (13.4")
Thermostat:		
Start to Open	71°C (160°F)	71°C (160°F)
Fully Open	85°C (185°F)	85°C (185°F)
Radiator Cap	0.9 bar (13 PSI)	0.9 bar (13 PSI)
ELECTRICAL SYSTEM		
Alternator	12-volt, Heavy Duty, 40 amps	12-volt, Heavy Duty, 40 amps
Battery	12-volt, w/ negative ground, 420 cca	12-volt, w/ negative ground, 420 cca
Starting Motor	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction
FUEL SYSTEM		
Fuel Type	Diesel	Diesel
Type of Fuel to Use if Above 40°F	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below 40°F	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:		
Type	In-Line	In-Line
Timing	21° BTDC	21° BTDC
CLUTCH		
Type	225 mm (8.86") (HST) Dry Disc, Organic Face 215 mm (8.46") - Transmission 9x3 Trans 225 mm (8.86") - PTO 9 x 3 Trans	225 mm (8.86") (HST) Dry Disc, Organic Face
Pedal Free-Travel	19 - 30 mm (3/4 - 1-3/16")	19 - 30 mm (3/4 - 1-3/16")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
COOLING SYSTEM		
Type	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass
Water Pump:		
Type	Centrifugal	Centrifugal
Drive	V-Belt	V-Belt
Belt		
Deflection	10 - 15 mm (7/16 - 9/16") when 9 - 11 kg (20 - 25 lbs.) thumb pressure is applied midway between belt pulleys	10 - 15 mm (7/16 - 9/16") when 9 - 11 kg (20 - 25 lbs.) thumb pressure is applied midway between belt pulleys
Fan Diameter	340 mm (13.4")	340 mm (13.4")
Thermostat:		
Start to Open	71°C (160°F)	71°C (160°F)
Fully Open	85°C (185°F)	85°C (185°F)
Radiator Cap	0.9 bar (13 PSI)	0.9 bar (13 PSI)
ELECTRICAL SYSTEM		
Alternator	12-volt, Heavy Duty, 40 amps	12-volt, Heavy Duty, 40 amps
Battery	12-volt, w/ negative ground, 420 cca	12-volt, w/ negative ground, 420 cca
Starting Motor	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction
FUEL SYSTEM		
Fuel Type	Diesel	Diesel
Type of Fuel to Use if Above 40°F	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below 40°F	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:		
Type	In-Line	In-Line
Timing	21° BTDC	21° BTDC
CLUTCH		
Type	225 mm (8.86") (HST) Dry Disc, Organic Face 215 mm (8.46") - Transmission 9x3 Trans 225 mm (8.86") - PTO 9 x 3 Trans	225 mm (8.86") (HST) Dry Disc, Organic Face 215 mm (8.46") - Transmission 9x3 Trans 225 mm (8.86") - PTO 9 x 3 Trans
Pedal Free-Travel	19 - 30 mm (3/4 - 1-3/16")	19 - 30 mm (3/4 - 1-3/16")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
BRAKES		
Type	Wet Disc	Wet Disc
Disc 2	155 mm x 118 mm Diameter (6.1" x 4.65")	155 mm x 118 mm Diameter (6.1" x 4.65")
STEERING		
Type	Power	Power
Turns		
Lock-to-Lock:		
FWD	3.1	3.1
Super Steer™	4.1	4.1
Front Wheel		
Toe-In	0 - 5 mm (0 - 13/64")	0 - 5 mm (0 - 13/64")
Turning Radius w/o Brakes:		
FWD	2946.4 mm (116")	2946.4 mm (116")
Super Steer™	2700 mm (106.3")	2700 mm (106.3")
POWER TAKE-OFF		
Type	Transmission Single Clutch - HST Live, Dual Clutch - Gear	Transmission Single Clutch - HST
Shaft:		
Rear PTO	35 mm (1-3/8")	35 mm (1-3/8")
Mid PTO	25.4 mm (1")	25.4 mm (1")
Engine Speed for 540 RPM Rear		
PTO Operation	2462 RPM - HST Transmission 2455 RPM - Gear Transmission	2462 RPM - HST Transmission
Horsepower PTO Observed	18.6 kw (24.9 HP) - HST 19.8 kw (26.6 HP) - Gear	21.5 kw (28.9 HP) - HST
Engine Speed for 2000 RPM Mid		
PTO Operation	2342 RPM - HST 2376 RPM - Gear	2342 RPM - HST
HYDRAULIC LIFT SYSTEM		
Type	Open Center	Open Center
Pump Type	Gear	Gear
Pump Capacity	27 lpm (7.2 U.S. gpm)	27 lpm (7.2 U.S. gpm)
System Relief Valve Setting	147 bar (2133 PSI)	147 bar (2133 PSI)

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
BRAKES		
Type	Wet Disc	Wet Disc
Disc 2	155 mm x 118 mm Diameter (6.1" x 4.65")	155 mm x 118 mm Diameter (6.1" x 4.65")
STEERING		
Type	Power	Power
Turns		
Lock-to-Lock:		
FWD	3.1	3.1
Super Steer™	4.1	4.1
Front Wheel		
Toe-In	0 - 5 mm (0 - 13/64")	0 - 5 mm (0 - 13/64")
Turning Radius w/o Brakes:		
FWD	2946.4 mm (116")	2946.4 mm (116")
Super Steer™	2700 mm (106.3")	2700 mm (106.3")
POWER TAKE-OFF		
Type	Transmission Single Clutch - HST Live, Dual Clutch - Gear	Transmission Single Clutch - HST
Shaft:		
Rear PTO	35 mm (1-3/8")	35 mm (1-3/8")
Mid PTO	25.4 mm (1")	25.4 mm (1")
Engine Speed for 540 RPM Rear		
PTO Operation	2462 RPM - HST Transmission 2455 RPM - Gear Transmission	2462 RPM - HST Transmission
Horsepower PTO Observed	18.6 kw (24.9 HP) - HST 19.8 kw (26.6 HP) - Gear	21.5 kw (28.9 HP) - HST
Engine Speed for 2000 RPM Mid		
PTO Operation	2342 RPM - HST 2376 RPM - Gear	2342 RPM - HST
HYDRAULIC LIFT SYSTEM		
Type	Open Center	Open Center
Pump Type	Gear	Gear
Pump Capacity	27 lpm (7.2 U.S. gpm)	27 lpm (7.2 U.S. gpm)
System Relief Valve Setting	147 bar (2133 PSI)	147 bar (2133 PSI)

	Model TC31DA—	Model TC35DA—		Model TC31DA—	Model TC35DA—
TRANSMISSION SPEEDS (Hydrostatic)			TRANSMISSION SPEEDS (Hydrostatic)		
	(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)	(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)		(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)	(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)
Gear Position:			Gear Position:		
Low	0-6.30 KPH (0-3.91 MPH)	0-6.30 KPH (0-3.91 MPH)	Low	0-6.30 KPH (0-3.91 MPH)	0-6.30 KPH (0-3.91 MPH)
Mid	0-13.09 KPH (0-8.13 MPH)	0-13.09 KPH (0-8.13 MPH)	Mid	0-13.09 KPH (0-8.13 MPH)	0-13.09 KPH (0-8.13 MPH)
High	0-26.70 KPH (0-16.59 MPH)	0-26.70 KPH (0-16.59 MPH)	High	0-26.70 KPH (0-16.59 MPH)	0-26.70 KPH (0-16.59 MPH)
Reverse Low	0-4.7 KPH (0-2.92 MPH)	0-4.7 KPH (0-2.92 MPH)	Reverse Low	0-4.7 KPH (0-2.92 MPH)	0-4.7 KPH (0-2.92 MPH)
Reverse Mid	0-9.82 KPH (0-6.10 MPH)	0-9.82 KPH (0-6.10 MPH)	Reverse Mid	0-9.82 KPH (0-6.10 MPH)	0-9.82 KPH (0-6.10 MPH)
Reverse High	0-20.02 KPH (0-12.44 MPH)	0-20.02 KPH (0-12.44 MPH)	Reverse High	0-20.02 KPH (0-12.44 MPH)	0-20.02 KPH (0-12.44 MPH)
TRANSMISSION SPEEDS (Gear)			TRANSMISSION SPEEDS (Gear)		
	(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)			(2,600 RPM Engine Speed with 11.2 x 24 Rear tyres)	
Gear Position:			Gear Position:		
1 st	1.47 KPH (0.91 MPH)		1 st	1.47 KPH (0.91 MPH)	
2 nd	2.17 KPH (1.35 MPH)		2 nd	2.17 KPH (1.35 MPH)	
3 rd	3.11 KPH (1.93 MPH)		3 rd	3.11 KPH (1.93 MPH)	
4 th	4.64 KPH (2.88 MPH)		4 th	4.64 KPH (2.88 MPH)	
5 th	6.85 KPH (4.26 MPH)		5 th	6.85 KPH (4.26 MPH)	
6 th	9.83 KPH (6.11 MPH)		6 th	9.83 KPH (6.11 MPH)	
7 th	11.88 KPH (7.38 MPH)		7 th	11.88 KPH (7.38 MPH)	
8 th	17.54 KPH (10.90 MPH)		8 th	17.54 KPH (10.90 MPH)	
9 th	25.16 KPH (15.63 MPH)		9 th	25.16 KPH (15.63 MPH)	
Reverse 1	2.17 KPH (1.35 MPH)		Reverse 1	2.17 KPH (1.35 MPH)	
Reverse 2	6.85 KPH (4.26 MPH)		Reverse 2	6.85 KPH (4.26 MPH)	
Reverse 3	17.54 KPH (10.90 MPH)		Reverse 3	17.54 KPH (10.90 MPH)	

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
CAST IRON WEIGHTS		
Front End: R-4 & Turf tyres with FWD, & Super Steer™	(2) weights @ 26 kg (57 lbs.) each	(2) weights @ 26 kg (57 lbs.) each
	Optional (2) weights @ 45 kg (100 lbs.) each	Optional (2) weights @ 45 kg (100 lbs.) each
Ag. tyres with FWD (w/o Super Steer™)		
	(2) weights @ 26 kg (57 lbs.) each	(2) weights @ 26 kg (57 lbs.) each
Ag. tyres with Super Steer™	(1) weight @ 26 kg (57 lbs.)	(1) weight @ 26 kg (57 lbs.)
Rear Wheel: R-4 tyres		
	(4) weights (2) per wheel @ 34 kg (75 lbs.) each	(4) weights (2) per wheel @ 34 kg (75 lbs.) each
Turf tyres	---	---
Ag. tyres	(4) weights (2) per wheel @ 48 kg (105 lbs.) each	(4) weights (2) per wheel @ 48 kg (105 lbs.) each
DRAWBARS		
Swinging/Extendible	Standard	Standard

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
CAST IRON WEIGHTS		
Front End: R-4 & Turf tyres with FWD, & Super Steer™	(2) weights @ 26 kg (57 lbs.) each	(2) weights @ 26 kg (57 lbs.) each
	Optional (2) weights @ 45 kg (100 lbs.) each	Optional (2) weights @ 45 kg (100 lbs.) each
Ag. tyres with FWD (w/o Super Steer™)		
	(2) weights @ 26 kg (57 lbs.) each	(2) weights @ 26 kg (57 lbs.) each
Ag. tyres with Super Steer™	(1) weight @ 26 kg (57 lbs.)	(1) weight @ 26 kg (57 lbs.)
Rear Wheel: R-4 tyres		
	(4) weights (2) per wheel @ 34 kg (75 lbs.) each	(4) weights (2) per wheel @ 34 kg (75 lbs.) each
Turf tyres	---	---
Ag. tyres	(4) weights (2) per wheel @ 48 kg (105 lbs.) each	(4) weights (2) per wheel @ 48 kg (105 lbs.) each
DRAWBARS		
Swinging/Extendible	Standard	Standard

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
tyres		
FRONT:		
Agricultural:		
FWD	7-14, 4PR, R1	7-14, 4PR, R1
Turf:		
FWD	27 x 10.5-15, 4PR, R3 25/10.50LL x 15, 6PR, R3	27 x 10.5-15, 4PR, R3 25/10.50LL x 15, 6PR, R3
Industrial:		
FWD	25 x 8.50-14, 6PR, R4	25 x 8.50-14, 6PR, R4
REAR:		
Agricultural	11.2-24, 4PR, R1	11.2-24, 4PR, R1
Turf	41 x 14-20, 4PR, R3 41/18LL x 16.1, 6PR, R3	41 x 14-20, 4PR, R3 41/18LL x 16.1, 6PR, R3
Industrial	15-19.50, 6PR, R4	15-19.50, 6PR, R4
WHEEL BOLT TORQUES		
Front Wheel—		
Disc-to-Hub:		
FWD	122 N·m (90 ft. lbs.)	122 N·m (90 ft. lbs.)
Rear Wheel—		
Disc-to Rim & Disc-to Axle	169 N·m (125 ft. lbs.)	169 N·m (125 ft. lbs.)
ROPS ATTACHING BOLT TORQUES		
ROPS to Rear Axle	54 N·m (40 ft. lbs.)	54 N·m (40 ft. lbs.)
Seat Belt	47.4 N·m (35 ft. lbs.)	47.4 N·m (35 ft. lbs.)

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
tyres		
FRONT:		
Agricultural:		
FWD	7-14, 4PR, R1	7-14, 4PR, R1
Turf:		
FWD	27 x 10.5-15, 4PR, R3 25/10.50LL x 15, 6PR, R3	27 x 10.5-15, 4PR, R3 25/10.50LL x 15, 6PR, R3
Industrial:		
FWD	25 x 8.50-14, 6PR, R4	25 x 8.50-14, 6PR, R4
REAR:		
Agricultural	11.2-24, 4PR, R1	11.2-24, 4PR, R1
Turf	41 x 14-20, 4PR, R3 41/18LL x 16.1, 6PR, R3	41 x 14-20, 4PR, R3 41/18LL x 16.1, 6PR, R3
Industrial	15-19.50, 6PR, R4	15-19.50, 6PR, R4
WHEEL BOLT TORQUES		
Front Wheel—		
Disc-to-Hub:		
FWD	122 N·m (90 ft. lbs.)	122 N·m (90 ft. lbs.)
Rear Wheel—		
Disc-to Rim & Disc-to Axle	169 N·m (125 ft. lbs.)	169 N·m (125 ft. lbs.)
ROPS ATTACHING BOLT TORQUES		
ROPS to Rear Axle	54 N·m (40 ft. lbs.)	54 N·m (40 ft. lbs.)
Seat Belt	47.4 N·m (35 ft. lbs.)	47.4 N·m (35 ft. lbs.)

GENERAL DIMENSIONS

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(1)—LENGTH:		
FWD:		
Turf tyres	2669.5 mm (105.1")	2669.5 mm (105.1")
Ag. tyres	2697.5 mm (106.2")	2697.5 mm (106.2")
R4 tyres	2677.2 mm (105.4")	2677.2 mm (105.4")
Turf Special (Galaxy® tyres)	2671 mm (105.2")	2671 mm (105.2")
Super Steer™:		
Turf tyres	2900.7 mm (114.2")	2900.7 mm (114.2")
Ag. tyres	2928.6 mm (115.3")	2928.6 mm (115.3")
R4 tyres	2905.8 mm (114.4")	2905.8 mm (114.4")
Turf Special (Galaxy tyres)	2900 mm (114.2")	2900 mm (114.2")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(2)—WHEEL BASE:		
FWD	1600 mm (63.0")	1600 mm (63.0")
Super Steer™	1829 mm (72.0")	1829 mm (72.0")

HEIGHT:

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(3)—Top of Steering Wheel:		
Turf tyres	1440 mm (56.7")	1440 mm (56.7")
Ag. tyres	1354 mm (53.3")	1354 mm (53.3")
R4 tyres	1400 mm (55.1")	1400 mm (55.1")
Turf Special (Galaxy tyres)	1417 mm (55.8")	1417 mm (55.8")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(4)—Top of ROPS—Folding:		
<u>w/Turf tyres</u> —		
Up Position	2197 mm (86.5")	2197 mm (86.5")
Down Position	1732 mm (68.2")	1732 mm (68.2")
<u>w/Ag. tyres</u> —		
Up Position	2230 mm (87.8")	2230 mm (87.8")
Down Position	1765 mm (69.5")	1765 mm (69.5")
<u>w/R4 tyres</u> —		
Up Position	2156 mm (84.9")	2156 mm (84.9")
Down Position	1692 mm (66.6")	1692 mm (66.6")
<u>w/Turf Special (Galaxy)</u> —		
Up Position	2173 mm (85.6")	2173 mm (85.6")
Down Position	1709 mm (67.3")	1709 mm (67.3")

GENERAL DIMENSIONS

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(1)—LENGTH:		
FWD:		
Turf tyres	2669.5 mm (105.1")	2669.5 mm (105.1")
Ag. tyres	2697.5 mm (106.2")	2697.5 mm (106.2")
R4 tyres	2677.2 mm (105.4")	2677.2 mm (105.4")
Turf Special (Galaxy® tyres)	2671 mm (105.2")	2671 mm (105.2")

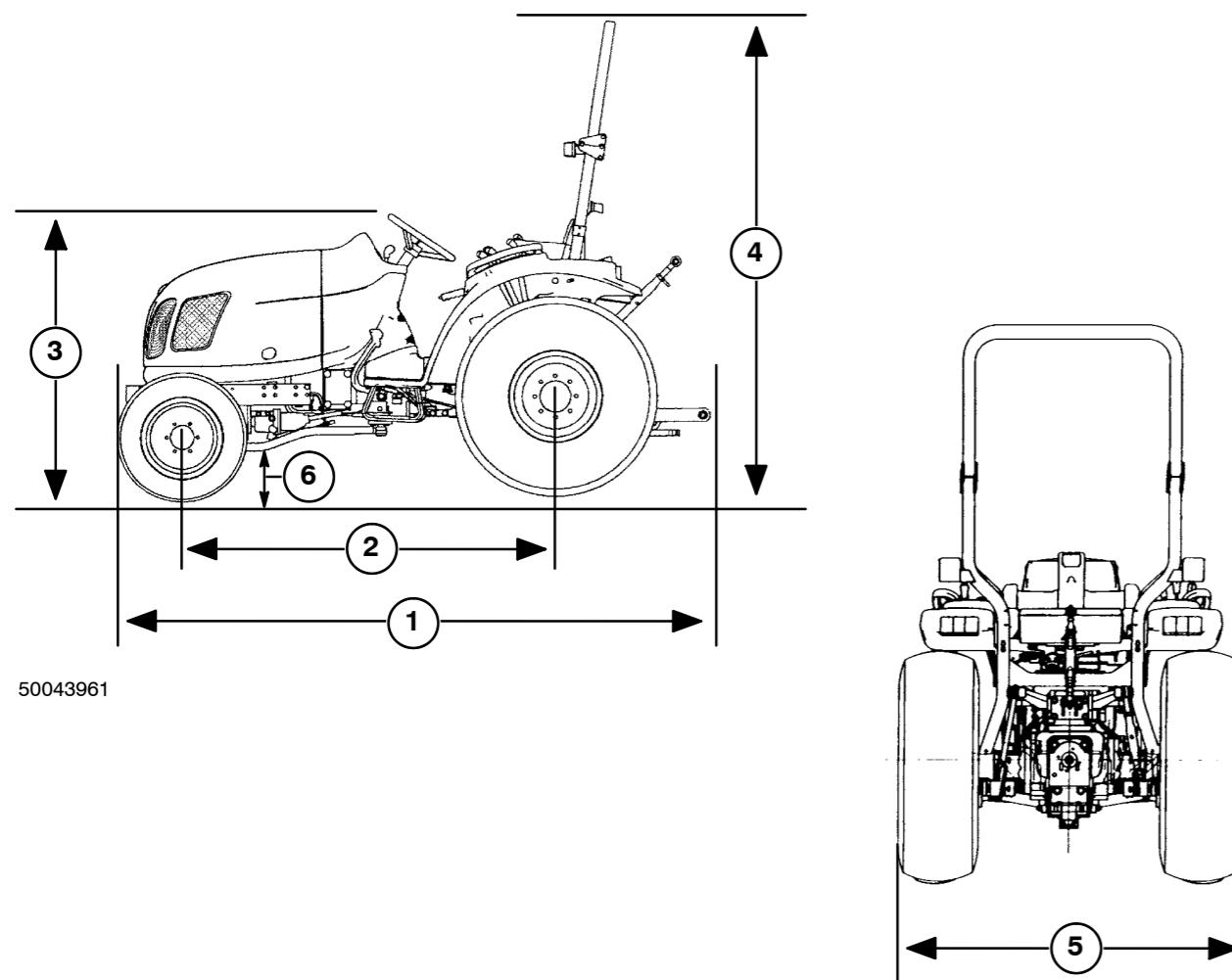
	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(2)—WHEEL BASE:		
FWD	1600 mm (63.0")	1600 mm (63.0")
Super Steer™	1829 mm (72.0")	1829 mm (72.0")

HEIGHT:

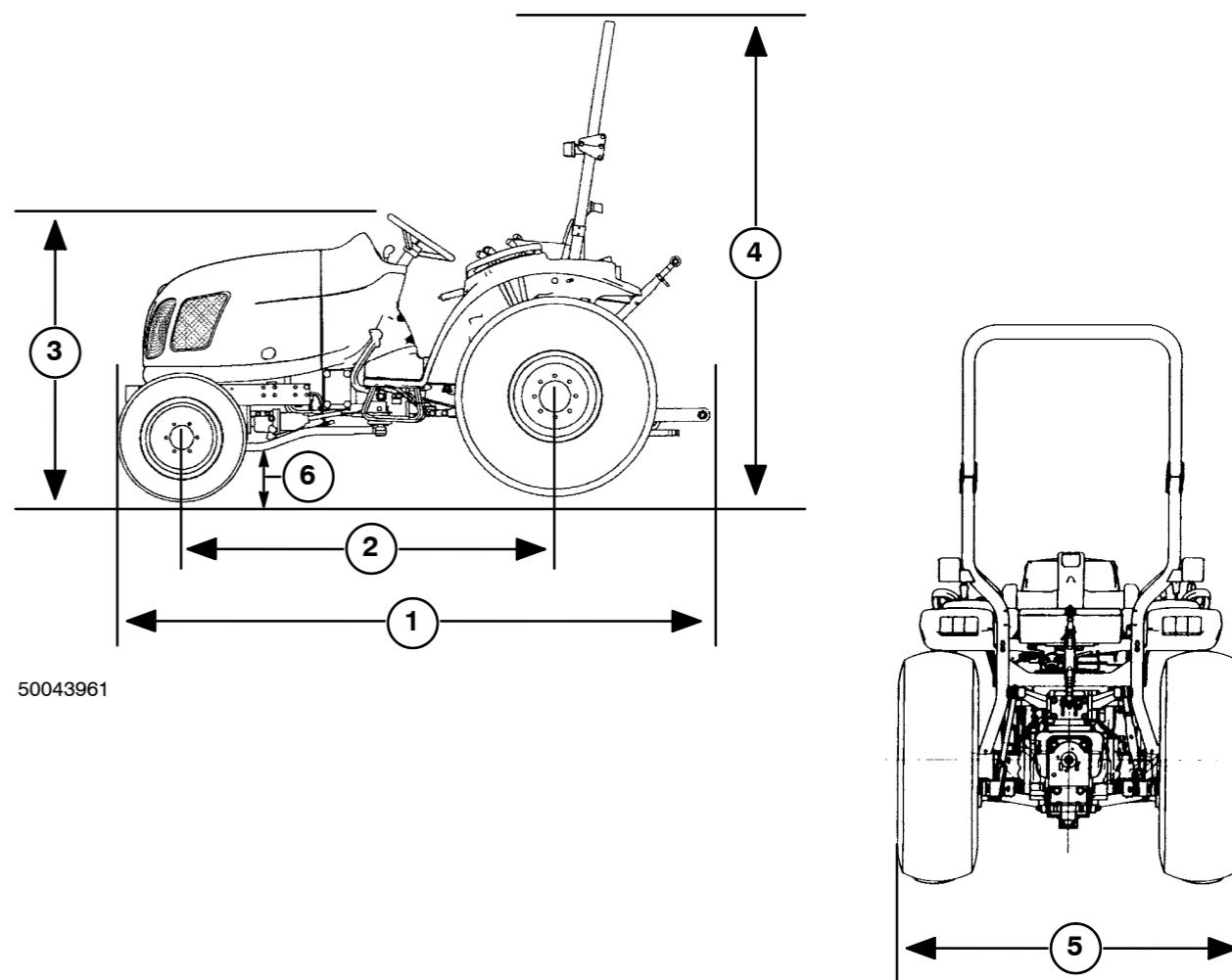
	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(3)—Top of Steering Wheel:		
Turf tyres	1440 mm (56.7")	1440 mm (56.7")
Ag. tyres	1354 mm (53.3")	1354 mm (53.3")
R4 tyres	1400 mm (55.1")	1400 mm (55.1")
Turf Special (Galaxy tyres)	1417 mm (55.8")	1417 mm (55.8")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(4)—Top of ROPS—Folding:		
<u>w/Turf tyres</u> —		
Up Position	2197 mm (86.5")	2197 mm (86.5")
Down Position	1732 mm (68.2")	1732 mm (68.2")
<u>w/Ag. tyres</u> —		
Up Position	2230 mm (87.8")	2230 mm (87.8")
Down Position	1765 mm (69.5")	1765 mm (69.5")
<u>w/R4 tyres</u> —		
Up Position	2156 mm (84.9")	2156 mm (84.9")
Down Position	1692 mm (66.6")	1692 mm (66.6")
<u>w/Turf Special (Galaxy)</u> —		
Up Position	2173 mm (85.6")	2173 mm (85.6")
Down Position	1709 mm (67.3")	1709 mm (67.3")

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(5)—WIDTH:		
Rear Axle—		
Outside to Outside:		
<u>Turf tyres</u>		
Dished In	1463 mm (57.6")	1463 mm (57.6")
Dished Out	1529 mm (60.2")	1529 mm (60.2")
<u>Ag. tyres</u>		
Dished In	1379 mm (54.3")	1379 mm (54.3")
Dished Out	1511 mm (59.5")	1511 mm (59.5")
<u>R4 tyres</u>		
Dished Out (Only)	1575 mm (62.0")	1575 mm (62.0")
<u>Turf Special (Galaxy tyres)</u>		
Dished Out (Only)	1721 mm (67.75")	1721 mm (67.75")
(6)—MINIMUM GROUND CLEARANCE:		
Turf tyres	328 mm (12.9")	328 mm (12.9")
Ag. tyres	330 mm (13.0")	330 mm (13.0")
R4 tyres	287 mm (11.3")	287 mm (11.3")
Super Steer™	177.8 mm (7.0")	177.8 mm (7.0")
Turf Special (Galaxy tyres)	292 mm (11.5")	292 mm (11.5")



	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
(5)—WIDTH:		
Rear Axle—		
Outside to Outside:		
<u>Turf tyres</u>		
Dished In	1463 mm (57.6")	1463 mm (57.6")
Dished Out	1529 mm (60.2")	1529 mm (60.2")
<u>Ag. tyres</u>		
Dished In	1379 mm (54.3")	1379 mm (54.3")
Dished Out	1511 mm (59.5")	1511 mm (59.5")
<u>R4 tyres</u>		
Dished Out (Only)	1575 mm (62.0")	1575 mm (62.0")
<u>Turf Special (Galaxy tyres)</u>		
Dished Out (Only)	1721 mm (67.75")	1721 mm (67.75")
(6)—MINIMUM GROUND CLEARANCE:		
Turf tyres	328 mm (12.9")	328 mm (12.9")
Ag. tyres	330 mm (13.0")	330 mm (13.0")
R4 tyres	287 mm (11.3")	287 mm (11.3")
Super Steer™	177.8 mm (7.0")	177.8 mm (7.0")
Turf Special (Galaxy tyres)	292 mm (11.5")	292 mm (11.5")



	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
WHEEL TREAD SETTINGS:		
FRONT:		
Agricultural:		
FWD	1102 mm (43.4")	1102 mm (43.4")
Turf:		
FWD	1151 mm (45.3")	1151 mm (45.3")
Industrial:		
FWD	1151 mm (45.3")	1151 mm (45.3")
REAR:		
Agricultural	11.2 x 24	1087 - 1217 mm (42.8 - 47.9")
(FWD)		
Turf	41 x 14-20	1120 - 1184 mm (44.1 - 46.6")
(FWD)		
Industrial	15 x 19.5	1184 mm (46.6")
(FWD)		
WEIGHT:		
With ROPS:		
FWD (HST)	1124.5 kg (2479 lbs.)	1130.5 kg (2492 lbs.)
FWD (GEAR)	1060.8 kg (2339 lbs.)	
SuperSteer (HST)	1176.4 kg (2593 lbs.)	1182.4 kg (2606 lbs.)
SuperSteer (GEAR)	1112.7 kg (2453 lbs.)	

	Model TC31DA— Hydrostatic/Gear	Model TC35DA— Hydrostatic
WHEEL TREAD SETTINGS:		
FRONT:		
Agricultural:		
FWD	1102 mm (43.4")	1102 mm (43.4")
Turf:		
FWD	1151 mm (45.3")	1151 mm (45.3")
Industrial:		
FWD	1151 mm (45.3")	1151 mm (45.3")
REAR:		
Agricultural	11.2 x 24	1087 - 1217 mm (42.8 - 47.9")
(FWD)		
Turf	41 x 14-20	1120 - 1184 mm (44.1 - 46.6")
(FWD)		
Industrial	15 x 19.5	1184 mm (46.6")
(FWD)		
WEIGHT:		
With ROPS:		
FWD (HST)	1124.5 kg (2479 lbs.)	1130.5 kg (2492 lbs.)
FWD (GEAR)	1060.8 kg (2339 lbs.)	
SuperSteer (HST)	1176.4 kg (2593 lbs.)	1182.4 kg (2606 lbs.)
SuperSteer (GEAR)	1112.7 kg (2453 lbs.)	