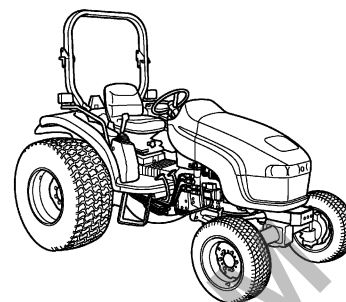


NEW HOLLAND TC35D TC40D TC45D

(Replaces All Previous Issues)



NEW HOLLAND

Reprinted

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PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING”, and “DANGER”) 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.



CAUTION: THE WORD “CAUTION” IS USED WHERE A SAFE BEHAVIORAL PRACTICE ACCORDING TO OPERATING AND MAINTENANCE INSTRUCTIONS AND COMMON SAFETY PRACTICES WILL PROTECT THE OPERATOR AND OTHERS FROM ACCIDENT INVOLVEMENT.



WARNING: THE WORD “WARNING” DENOTES A POTENTIAL OR HIDDEN HAZARD WHICH HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.



DANGER: THE WORD “DANGER” DENOTES A FORBIDDEN PRACTICE IN CONNECTION WITH A SERIOUS HAZARD.

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

MACHINE SAFETY

Additional precautionary statements (“ATTENTION” and “IMPORTANT”) are followed by specific instructions. These statements are intended for machine safety.

ATTENTION: The word “ATTENTION” is used to warn the operator of potential machine damage if a certain procedure is not followed.

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.

SECTION 2

OPERATION

CONTROLS AND INSTRUMENTS

SEAT, SEAT BELT, AND ROLLOVER PROTECTIVE STRUCTURE (ROPS)

Adjusting the Tractor Seat

Your New Holland tractor is equipped with an adjustable suspension seat.

To move the seat fore and aft, raise the release lever, 1. Because the seat is on an inclined base, more effort is required to move the seat rearward than forward.

To adjust the flotation of the seat, turn the knob, 2, clockwise for a firmer ride or counter clockwise for a softer ride.

To swivel the seat, raise the handle, 3, and swivel in the desired direction. The seat will swivel and lock at 10° or 20° to the right or the left.

Adjusting the Seat Belt

To lengthen the seat 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.

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or redye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.

NOTE: Optional armrests shown.

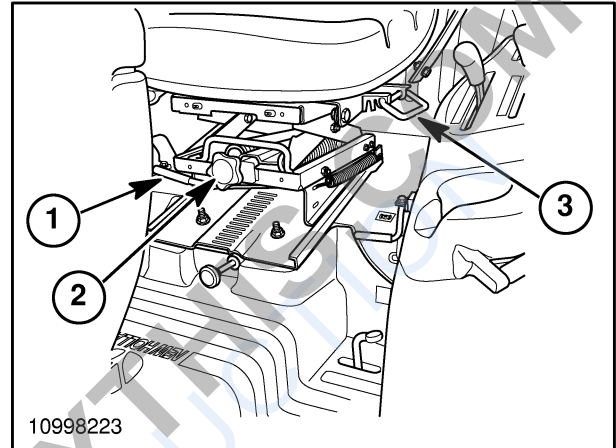


Figure 2-1

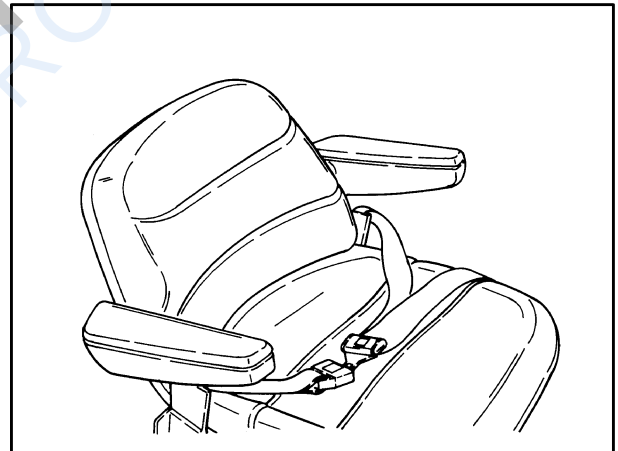


Figure 2-2

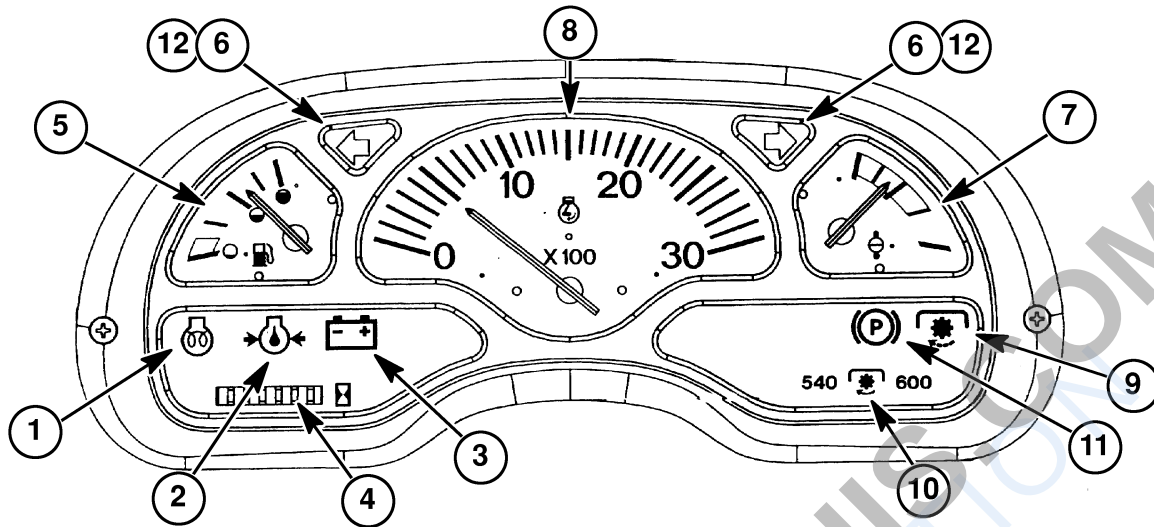


Figure 2-8

INSTRUMENT PANEL

1. **Cold Starting Indicator Light** - Illuminates when the key switch is turned to the "ACC/RUN" position. It remains lit for approximately four seconds when the key is in position, during which time the glow plugs are heating the precombustion chambers of cylinder head.
2. **Engine Oil Pressure Warning Light** - Illuminates with the key switch in the "ACC/RUN" position and remains lit for a short period of time after the engine is started. The light indicates oil pressure only and goes out when sufficient oil pressure is present at the oil sender. If the bulb becomes lit during operation, stop the tractor engine immediately and investigate the cause.
3. **Battery Charge Warning Light** - Illuminates when the key switch is in the "ACC/RUN" position and goes out when the engine is started. If this bulb becomes lit during operation, it indicates that the charging system is not operating normally. As the battery can become fully discharged under these conditions, the problem should be investigated as soon as possible.
4. **Proof Meter** - Records the hours and portions of hours that your tractor has been operated regardless of engine RPM. Use the proof meter as a guide to determine hourly service and maintenance intervals.
5. **Fuel Gauge** - Indicates the amount of diesel fuel remaining in the tank. The gauge is activated when the key switch is in the "ACC/RUN" position. It will register empty with the key switch in the "STOP" position.
6. **Flasher Warning Hazard Lights** - Operate when the flasher switch is turned on, regardless of the key switch position. Use the flasher warning lights and the SMV emblem when traveling on public roads, day or night.
7. **Temperature Gauge** - Indicates coolant temperature. It is activated when the key switch is turned to the "ACC/RUN" position. The gauge will register cold with the key switch in the "STOP" position. If the needle registers in the green range of the gauge, this indicates a normal operating temperature. If the needle moves to the red portion of the gauge, this indicates an overheated condition. Stop the tractor engine immediately and investigate the cause.
8. **Tachometer** - Registers engine RPM (Revolutions Per Minute). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
9. **PTO On Indicator** - When either the PTO modulation is engaged, the indicator will be illuminated amber with key in the "ACC/RUN" or "START" positions.
10. **Rear/Mid PTO Speed** - Indicated by illumination of an green or red light. When the rear PTO is turning at 540 RPM, the green PTO indicator will light. When the rear PTO is turning at 600 RPM the red 600 indicator will illuminate, indicating an over speed and warning the operator of danger.
11. **Parking Brake Light** - Illuminates if the parking brake is engaged when the key switch is turned from the "OFF" position.
12. **Flasher Turn Lights** - Operate when the turn signal switch is moved forward for right turns the right arrow will flash and moved rearward for left turns the left arrow will flash. The key switch has to be in the "ACC/RUN" or "START" positions.

SECTION 3

LUBRICATION AND MAINTENANCE

LUBRICATION

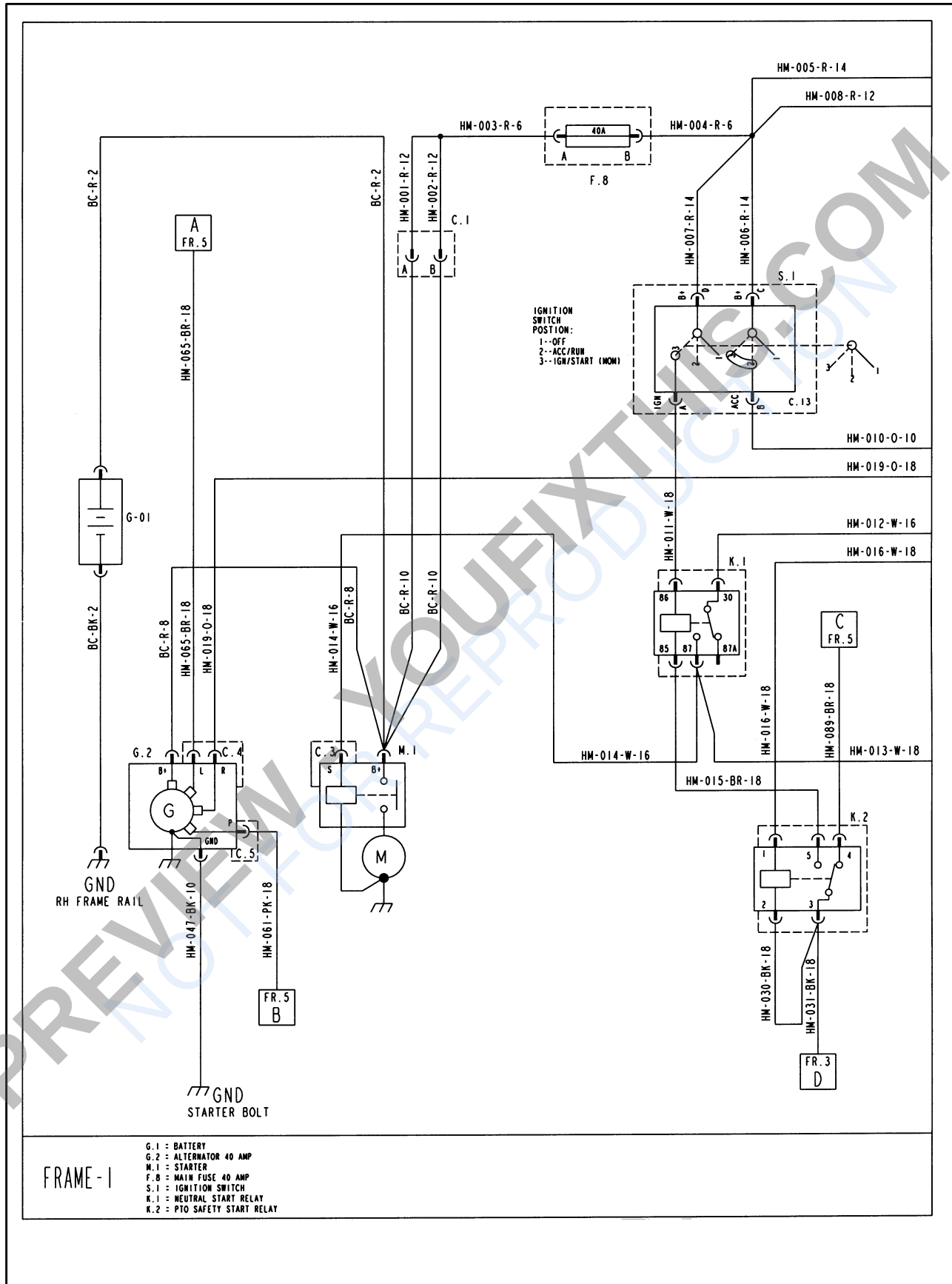
Adequate lubrication and maintenance on a regular schedule is vital to maintaining your Model TC35D, TC40D, or TC45D compact tractor. To ensure long service and efficient operation, follow the lubrication and maintenance schedules outlined in this section.

The use of proper fuels, oils, and filters, as well as keeping the systems clean, will also extend machine and component life.

ATTENTION: Always use genuine New Holland replacement filters to ensure proper filtration of engine and hydraulic systems.

RECOMMENDED LUBRICANTS

LUBRICANT	TYPE	NEW HOLLAND NO.	AMOUNT
Grease	High Viscosity Lithium Base-NLGI#2	9613310 9613379 (Canada)	Tube
Oil (Engine)— API Service SG-CE	10W-30	9613313	1 quart
		9613314	2.5 gallons
		9673508DS	5 gallons
		9613358 (Canada)	1 liter
	15W-40	9613360 (Canada)	20 liters
		9613290	1 quart
		9613303	2.5 gallons
		9613350 (Canada)	1 liter
		9613352 (Canada)	20 liters
		SAE 30	5 gallons
		9613286	1 quart
		9613289	2.5 gallons
		5W-30	4 liters
	Oil (Hydraulic System)—Transmission, Rear Axle, Front FWD Axle, Power Steering	9673589DS	1 quart
		9624655DS	1 quart
		9624656DS	1 gallon
		9624450	2.5 gallons
		9624451	5 gallons
		9613368 (Canada)	20 liters
		NH F200 (OPTIONAL) Multi-Seasonal Use, Recommended for Low Temperature Conditions	1 gallon
		86523625DS	1 gallon
		86523626DS	5 gallons
		86509446 (Canada)	20 liters



SECTION 4

SPECIFICATIONS

	Model TC35D— Hydrostatic	Model TC40D— Hydrostatic	Model TC45D— Hydrostatic
ENGINE			
Type/Model	Diesel/N843L	Diesel/N844	Diesel/N844L
Engine Gross Horsepower ..	26.1 kw (35.0)	29.8 kw (40.0)	33.6 kw (45)
Cylinders	3	4	4
Bore	84 mm (3.31")	84 mm (3.31")	84 mm (3.31")
Stroke	100 mm (3.94")	90 mm (3.54")	100 mm (3.94")
Displacement	1.65 L (101.1 cu. in.)	2.0 L (121.7 cu. in.)	2.2 L (135.2 cu. in.)
Compression Ratio	22.5:1	22.5:1	22.5:1
Firing Order	1-2-3	1-3-4-2	1-3-4-2
Low Idle Speed	1025 RPM	1025 RPM	1025 RPM
Maximum Speed:			
High Idle	2855 RPM	2855 RPM	2855 RPM
Rated	2600 RPM	2600 RPM	2600 RPM
CAPACITIES			
Fuel Tank	54.5 liters/ 13 U.S. gals.	54.5 liters/ 13 U.S. gals.	54.5 liters/ 13 U.S. gals.
Cooling System	7.4 liters/ 7.8 U.S. qts.	7.9 liters/ 8.3 U.S. qts.	8.0 liters/ 8.4 U.S. qts.
Engine Crankcase:			
With Filter	5.8 liters/ 6.1 U.S. qts.	6.0 liters/ 6.3 U.S. qts.	6.0 liters/ 6.3 U.S. qts.
Rear Axle & Transmission (Includes Hydraulics)	36 liters/ 9.6 U.S. gals.	36 liters/ 9.6 U.S. gals.	36 liters/ 9.6 U.S. gals.
Power Steering	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.
Front Axle Final Reduction ... /Differential Gear Case	5.3 liters/ 5.6 U.S. qts.	5.3 liters/ 5.6 U.S. qts.	5.3 liters/ 5.6 U.S. qts.

MINIMUM HARDWARE TIGHTENING TORQUES

IN FOOT POUNDS (NEWTON-METERS) FOR NORMAL ASSEMBLY APPLICATIONS

INCH HARDWARE AND LOCKNUTS

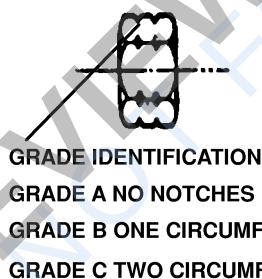
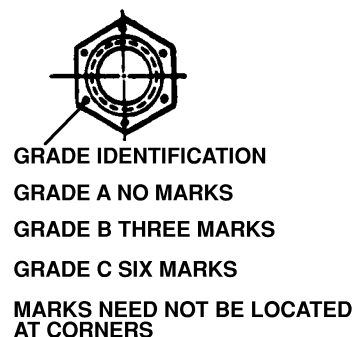
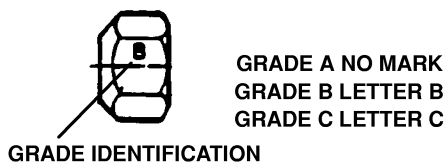
NOMINAL SIZE	SAE GRADE 2		SAE GRADE 5		SAE GRADE 8		LOCKNUTS		NOMINAL SIZE
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	GR.B w/GR5 BOLT	GR.C w/GR8 BOLT	
1/4	55* (6.2)	72* (8.1)	86* (9.7)	112* (13)	121* (14)	157* (18)	61* (6.9)	86* (9.8)	1/4
5/16	115* (13)	149* (17)	178* (20)	229* (26)	250* (28)	324* (37)	125* (14)	176* (20)	5/16
3/8	17 (23)	22 (30)	26 (35)	34 (46)	37 (50)	48 (65)	19 (26)	26 (35)	3/8
7/16	27 (37)	35 (47)	42 (57)	54 (73)	59 (80)	77 (104)	30 (41)	42 (57)	7/16
1/2	42 (57)	54 (73)	64 (87)	83 (113)	91 (123)	117 (159)	45 (61)	64 (88)	1/2
9/16	60 (81)	77 (104)	92 (125)	120 (163)	130 (176)	169 (229)	65 (88)	92 (125)	9/16
5/8	83 (112)	107 (145)	128 (174)	165 (224)	180 (244)	233 (316)	90 (122)	127 (172)	5/8
3/4	146 (198)	189 (256)	226 (306)	293 (397)	319 (432)	413 (560)	160 (217)	226 (306)	3/4
7/8	142 (193)	183 (248)	365 (495)	473 (641)	515 (698)	667 (904)	258 (350)	364 (494)	7/8
1	213 (289)	275 (373)	547 (742)	708 (960)	773 (1048)	1000 (1356)	386 (523)	545 (739)	1

NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION CAP SCREWS AND CARRIAGE BOLTS



LOCKNUTS



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DRAFT CONTROL (OPTIONAL)

When operating in draft control, the draft control lever is used to adjust sensitivity to draft loads. Once the lever is positioned, the hydraulic lift system will automatically adjust the depth of the equipment to maintain an even load on the tractor as soil conditions vary. The hydraulic system senses draft changes through changes in upper link compression. The operation of the upper link draft sensing system is described in the following paragraph.

Upper Link Compression Loads: As the equipment is pulled through the soil, the draft caused by soil resistance tends to rotate link hitch points. This draft creates a pushing or compressive force on the upper link hitch points. This draft creates a pushing or compressive force on the upper link. When changes in soil resistance cause the draft to increase, the compression force on the upper link will also increase. These changes in upper link compression, signal the hydraulic system through internal linkage, to raise the equipment slightly to maintain uniform draft.



WARNING: ALWAYS LOWER THE HYDRAULIC LIFT AND ALL OTHER HYDRAULIC EQUIPMENT BEFORE STOPPING THE TRACTOR.

New Holland tractors having the Hydraulic Draft Control option are equipped with two lever hydraulic lift control systems. The operation of each system is described below:

TWO LEVER CONTROLS POSITION CONTROL OPERATION

The two lever control system is shown in Figure 2-42. Position control is obtained by placing the draft control lever all the way forward and then moving the outer (Position) control lever, 1, to position the equipment as desired. The outer (Position) lever is used to set the desired working height or depth.

DRAFT CONTROL OPERATION

Draft control is obtained by placing the position control lever in the forward position. Use the draft control to adjust the draft setting (the lift system will automatically maintain the selected draft as described above.)

OPERATING IN BOTH POSITION AND DRAFT CONTROL

The position control may be used together with the draft control as follow:

1. Set the position control lever at the maximum desired implement depth. The hydraulic system will not lower the implement below the preselected depth. (This will also prevent "diving" which may be encountered with light equipment, such as a rear blade, when grading or backfilling.)
2. Adjust the draft control lever, 2, for the maximum draft load (pull) desired.

The hydraulic lift system will now provide normal draft response within the range set by the position control. This adjustment provides a more uniform depth while maintaining an even pull in widely varying soil conditions.



WARNING: MAKE SURE THE AREA IS CLEAR OF PEOPLE BEFORE LOWERING EQUIPMENT.

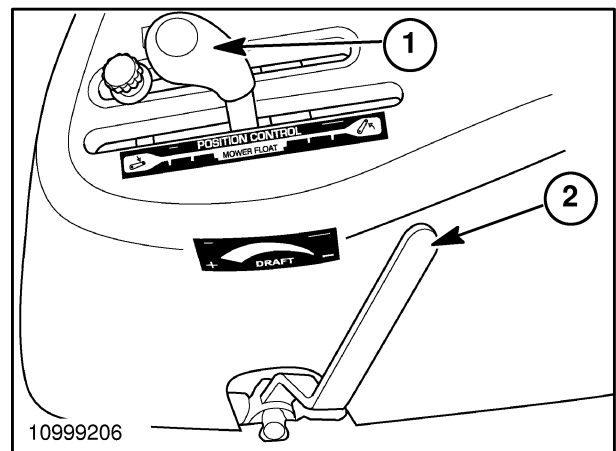


Figure 2-42

HEAD LAMP

If head lamps, 1, fail to operate, the bulb must be replaced. To change the bulb:

1. Open the tractor hood.
2. Rotate the socket counterclockwise a quarter turn and remove the socket from the housing.
3. Remove the bulb assembly from the harness.
4. Place a new bulb in the socket, then reinstall the socket in the housing.

IMPORTANT: Be careful not to touch the bulb with bare fingers. Oil from the fingers can shorten the life of bulb. Use protective cloth or glove when installing bulb.

NOTE: Replace with a halogen bulb, size 894.

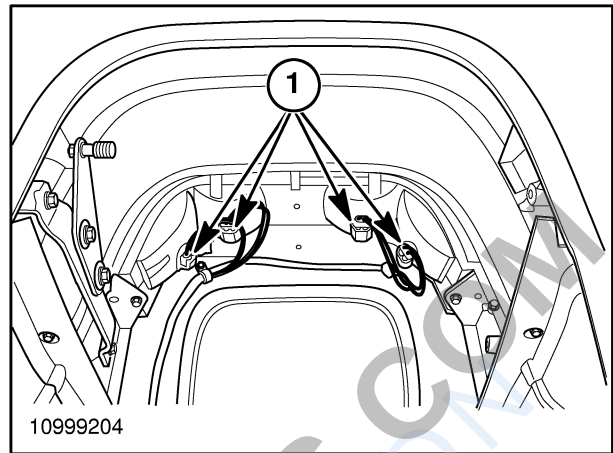


Figure 3-37

TAILLIGHT

NOTE: The same procedure is used for both sides.

To replace a taillight bulb:

1. Remove the two screws retaining the taillight lens and remove the lens.
2. Pull on the bulb to remove the old bulb.
3. Insert the new bulb into the socket.

NOTE: Replace with an GE168-12-volt bulb.

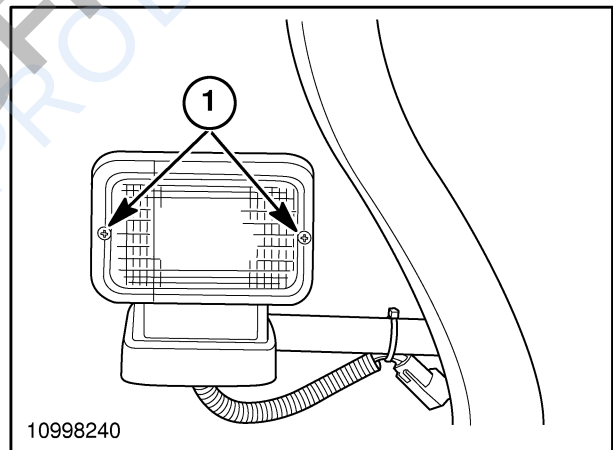


Figure 3-38

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