4 - OPERATING INSTRUCTIONS

STARTING THE UNIT

BEFORE OPERATING THE TRACTOR

CHECKS BEFORE USING THE TRACTOR

Before using the tractor, check that you are familiar with the position and function of all the tractor controls.

Ensure that the maintenance and lubrication operations described in of this Manual are fully carried out.:

After daily maintenance, carry out a visual inspection of the outside of the tractor, paying particular attention to the following points

1. Signs of cracking on the fan belt.
2. Accumulation of dirt around the engine.
3. Signs of leaks or damaged components connected to pressure tubes, sleeves and connectors.
4. Damaged tyres.
5. Loose fasteners.
6. Accumulation of dirt on, or leaks from, the hydraulic pump and connected parts.

Always carry out any necessary repairs before using the tractor again.

BEFORE USING THE TRACTOR

Read this section of the Operator's Manual carefully before using the tractor. This is particularly important if the tractor is to be used correctly as it contains all the information required on the layout and use of the tractor controls.

Even if you already have experience in using other makes of tractor, this section of the Manual especially must be studied carefully and thoroughly

After reading this section in full, ensure that you are fully familiar with the layout and use of the controls. Ensure too that you know the specifications of the tractors in question.

Never start the engine and tractor if you have not already familiarised yourself with all the controls.

Finding out once the tractor is moving may be too late.

If you have any doubts about any functional aspect of the tractor, contact your dealer.

Particular attention needs to be paid to the tractor's running–in period, to obtain the best operating reliability and service life for which it is designed and built.

With regard to the reliability and service life of your tractor, study section **Maintenance chart** carefully.

Section **Maintenance chart** contains details of all the lubrication and general maintenance operations to be carried out on the tractor.

Tractor data and specifications are noted in Section **Frame - Dimension**.

BOOSTING THE TRACTOR BATTERY

ADVICE ON STARTING THE ENGINE WITH A FLAT BATTERY OR NO BATTERY

To prevent damage to the alternator and its incorporated voltage regulator follow the procedure below:

When the tractor battery is partially discharged, and an auxiliary battery has to be used to start the engine, connect the auxiliary battery to the tractor battery ensuring that the terminal symbols match (positive to positive and negative to negative). Connect the positive lead first followed by the negative lead.

Start the engine using the key start switch. When the engine starts, allow it to run at idle speed, turn on all electrical equipment (lights, etc.). This will help protect the alternator from possible damage due to extreme load changes. Now disconnect the auxiliary battery leads. Remove the negative lead first, followed by the positive lead.

If you have to start the engine with a totally flat battery or where the tractor does not have a battery remember that:

- it is not possible to start the tractor by towing as the electro–magnetically operated injection pump cut–off will prevent the engine from starting
- it is however necessary to connect a **12 V** auxiliary battery capable of starting the tractor

Under normal conditions, the engine must never be run unless plug D+, terminal B+ and the condenser are disconnected from the alternator.

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7 - MAINTENANCE

GENERAL INFORMATION

INTRODUCTION

LUBRICATION AND MAINTENANCE

INTRODUCTION

This section gives full details of the maintenance procedures required to keep your tractor in optimal working conditions. The lubrication and maintenance table on pages **7-7** can be used for rapid reference for this purpose. All operations are numbered to facilitate use.

In addition to the normal maintenance operations listed, the following parts must be checked during flexible maintenance or during the first 50 hours of operation:

- Wheel nut tightness;
- Oil levels in hub and front axle casing - four–wheel drive only

ATTENTION: *Park the tractor on level ground and, where possible, ensure all hydraulic cylinders are fully extended before checking oil levels*

SAFETY PRECAUTIONS

Read and follow all the safety precautions listed in **2-14** .

NOTE: *Dispose of any filters and liquids used in an appropriate and with respect to the environment.*

⚠ DANGER

Rotating parts!
Do not attempt any inspection or adjustment with the machine running.
1. Set the parking brake.
2. Turn off the engine.
3. Remove key from key switch.
Failure to comply will result in death or serious injury.

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HOW TO PREVENT CONTAMINATION OF THE SYSTEM

To avoid contamination when changing oil, filters, etc., always clean the area around the fill points, inspection and drain plugs, dipsticks and filters.

Before connecting external cylinders, make sure that the oil inside is clean, that it has not deteriorated after prolonged storage and that it is of the type specified. To prevent dirt entering, clean the lubricating fittings before lubrication. Clean excess lubricant from the fittings after lubrication.

MAINTENANCE INTERVALS

The intervals suggested in the lubrication and maintenance table are those to be followed under normal working conditions.

Intervals should be in line with working and environmental conditions. The intervals should be shortened in adverse working conditions (wet, mud, sand, high dust levels).

LUBRICATION AND MAINTENANCE TABLES – 7-7

The tables list the intervals at which routine checks, lubrication, maintenance and/or adjustments should be carried out. Use the table as a quick reference guide when carrying out maintenance on the tractor. The operations follow the order in the table.

RUNNING–IN PERIOD

During the running–in period (approximately 50 hours of work), in addition to carrying out the operations indicated in **11-1**, we recommend the following:

- Run the engine for a few minutes at low speeds and let it idle after every cold start;
- Do not let the engine run at minimum speeds for a long time;
- ,Do not use the tractor continuously for heavy work;
- Follow the above recommendations after replacement of major parts.

ATTENTION: *Carry out the operations illustrated in this section at the specified intervals to ensure that your tractor functions properly. Remember, however, to carry out inspections and adjustments as and when experience and common sense dictates, (frequency can vary depending on working and environmental conditions).*

TRACTOR REFUELLING

⚠ WARNING

Fire hazard!
When handling diesel fuel, observe the following precautions:
1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

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8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Introduction

TROUBLESHOOTING

LOCATING AND IDENTIFYING PROBLEMS

INTRODUCTION

The following information is intended to help in the identification and correction of any tractor faults or malfunctions.

PROBLEM CODES – AREAS AFFECTED

The following information lists problems which could arise, the reasons for them and appropriate corrective action. The areas affected are dealt with in the following order:

Engine	Hydraulic System	Brakes
Electrical system	Hydraulic lift	Cab

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9 - SPECIFICATIONS

Introduction

The specifications on the following pages are given for your information and guidance. For further information concerning the tractor, please consult your authorised dealer.

Fluid capacities and lubricant specifications

COMPONENT TO BE FILLED OR TOPPED UP	QUANTITY		RECOM-MENDED PRODUCTS	INTERNA-TIONAL SPECI-FICATION
	liters/dm3	US gal		
Cooling system: TD5.65, TD5.80 models Without Cab TD5.65, TD5.80 models With Cab TD5.75, TD5.90, TD5.100, TD5.110 models Without Cab TD5.75, TD5.90, TD5.100, TD5.110 models With Cab	 10.5 12.0 11.5 13	 2.8 3.2 3.0 3.4	Water & Liquid **50% + 50% NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT**	-
Windscreen washer bottle	2	0.53	Water & cleaning liquid	-
Fuel tank.	110	29.06	Decanted and filtered diesel fuel	-
Engine sump: W/O filter: TD5.65, TD5.80 models TD5.75, TD5.90, TD5.100, TD5.110 models W/ filter : TD5.65, TD5.80 models TD5.75, TD5.90, TD5.100, TD5.110 models	 6.9 8.6 7.6 9.3	 1.82 2.27 2.01 2.46	**NEW HOLLAND AMBRA MASTERGOLD™ HSP ENGINE OIL**NH 330H	**API CH-4 ACEA E5**
Brake control circuit	0.4	0.11	**NEW HOLLAND AMBRA BRAKE LHM** NH 610 A	**ISO 7308**

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MINIMUM HARDWARE TIGHTENING TORQUES

MINIMUM HARDWARE TIGHTENING TORQUES

Screw Size	Class	
	8,8	10,9
	Nm (lb.ft.)	Nm (lb.ft.)
M8	23 (17)	33 (24)
M8X1	25 (18)	35 (26)
M10	46 (34)	65 (48)
M10X1.25	49 (36)	69 (51)
M12	80 (59)	110 (81)
M12X1.5	84 (62)	118 (87)
M12X1.25	88 (65)	123 (91)
M14	130 (96)	180 (133)
M14X1.5	138 (102)	190 (140)
M16	190 (140)	270 (199)
M16X1.5	210 (155)	290 (214)
M18	270 (199)	380 (280)
M18X2	280 (206)	400 (295)
M18X1.5	300 (221)	420 (310)

Screw Size	Class	
	8,8	10,9
	Nm (lb.ft.)	Nm (lb.ft.)
M20	380 (280)	530 (391)
M20X2	400 (295)	560 (413)
M20X1.5	420 (310)	590 (435)
M22	510 (376)	720 (531)
M22X2	540 (398)	750 (553)
M22X1.5	560 (413)	790 (582)
M24	630 (464)	890 (656)
M24X2	680 (501)	950 (700)
M27	930 (686)	1310 (966)
M27X2	995 (733)	1400 (1032)
M30	1260 (929)	1770 (1305)
M30X2	1370 (1010)	1930 (1423)
5/8” UNC	175 (129)	245 (180)
5/8” UNF	200 (147)	280 (206)
3/4” UNC	380 (280)	530 (391)
3/4” UNF	420 (310)	590 (435)

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O-RING BOSS PLUGS, ADJUSTABLE FITTING LOCK NUTS, SWIVEL SEATS JIC - 37°			
SIZES	TUBING O.D.		THR-EAD SIZE	LB. FT.		N m		LB. FT.		N m	
	inch	mm		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4	1/4	6,4	7/16- 20	9	12	12	16	6	10	8	14
5	5/16	7,9	1/2- 20	12	15	16	20	10	15	14	20
6	3/8	9,5	9/16- 18	21	24	29	33	15	20	20	27
8	1/2	1,7	3/4- 18	35	40	47	54	25	30	34	41
10	5/8	15,9	7/8- 14	53	58	72	79	35	40	47	54
12	3/4	19,1	1-1/ 16-12	77	82	104	111	60	70	81	95
14	7/8	22,2	1-3/ 16-12	90	100	122	136	70	80	95	109
16	1	25,4	1-5/ 16-12	110	120	149	163	80	90	108	122
20	1-1/4	31,8	1-5/8- 12	140	150	190	204	95	115	129	156
24	1-1/2	38,1	1-7/8- 12	160	175	217	237	120	140	163	190
32	2	50,8	2-1/2- 12	225	240	305	325	250	300	339	407

Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swaged or brazed.

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When recharging the tractor battery, it must be removed from the tractor to avoid possible damage to the alternator and related circuits. Observe the rule relating to lead connection (positive to positive and negative to negative).

STARTING THE ENGINE

OPERATION

ATTENTION: *Before starting the engine and moving the tractor, follow the instructions written below.*

- Do not start or operate the tractor in an enclosed area.
- Before starting the engine, check that all controls are in neutral.
- All controls must be actuated only from the driver's seat.
- Stop the engine before carrying out any service or maintenance operations on the tractor.

STARTING THE ENGINE

A. If the tractor has not been used for some time, or if started up for the first time at a low surrounding temperature, actuate the fuel pump starting lever around twenty times.

B. Ensure that both gear levers are in neutral position.

C. Press down the clutch pedal, place the power shuttle control lever (only for power shuttle versions) in neutral and move the servo PTO control lever (only for servo PTO versions) to disengaged position to close the starting safety device switch.

D. Move the throttle lever to around the half way position.

E. Turn the ignition key to position **(C)**, Release the key as soon as the engine starts.

HOW TO START AND STOP

STARTING IN A LOW EXTERNAL TEMPERATURE

ATTENTION: *When the external temperature is low and the engine is cold, cover the radiator before starting so that the engine coolant can quickly reach operating temperature. Then remove the cover. Note the following warnings:*

- Any single engine starting attempt should not last longer than 15 seconds. If, however, the engine fires but does not start, repeat up to a maximum time of 30 seconds.
- Wait at least one minute between attempts to start the engine.
- It is advisable not to make more than six attempts to start the engine to avoid excessive battery run–down.
- Use the steps provided for entering and leaving the tractor.
- Keep the guards properly fitted.
- When moving on the roads, signal your intention to stop, turn or slow down.
- Use the appropriate warning devices to indicate a slow–moving vehicle.

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MAINTENANCE CHART

MAINTENANCE CHART

Maintenance action	Check	Adjust	Cleaning	Drain fluid	Bleed	Replace	Change fluid	Grease	Page no.
As required maintenance									
Engine clutch	x								**7-9**
Brake pedal adjustment Adjusting height of service brake pedals		x							**7-9**
Alternator belt	x								**7-10**
Air conditioner compressor belt	x								**7-10**
Air filter dust valve	x								**7-10**
Transmission oil cooler			x						**7-11**
Tire pressures	x								**7-11**
Wheel nuts tightening torque	x								**7-11**
Warning light on									
Main cartridge, dry air filter			x						**7-12**
Brake fluid reservoir level	x								**7-13**
Fuel filter water drain				x					**7-14**
EVERY 10 HOURS OR EACH DAY									
Engine oil level	x								**7-15**
Battery	x								**7-15**
Radiator expansion tank	x								**7-16**
Windscreen washer bottle	x								**7-16**
Cab air filter			x						**7-16**
Cab recirculated air filter			x						**7-17**
Radiator, oil cooler and air conditioner condenser			x						**7-18**
Radiator, oil cooler and air conditioner condenser			x						**7-19**
Cab air-conditioning system	x								**7-19**
EVERY 50 HOURS									
Hydraulic lift and linkage							x		**7-20**
4WD steering cylinders							x		**7-20**
4WD front axle rear pivot							x		**7-21**
4WD front axle front pivot							x		**7-21**
2WD steering cylinder							x		**7-21**
2WD right-hand stub axle							x		**7-22**
2WD left-hand stub axle							x		**7-22**
2WD front axle pivot							x		**7-22**
EVERY 100 HOURS									
Air conditioner condenser			x						**7-23**
Intercooler			x						**7-23**
EVERY 300 HOURS									
Change engine oil and filter						x			**7-24**
Transmission and hydraulic circuit oil filter							x		**7-25**
Engine air cleaner outer element			x						**7-25**
Check final drives fluid level	x								**7-25**
Rear transmission and hydraulic lift oil level	x								**7-26**
Front Axle Housing Oil Level - 4WD	x								**7-26**
Handbrake		x							**7-27**
Front Axle Reduction Hubs - 4WD	x								**7-27**
2WD front wheels							x		**7-27**
4WD front axle swivel bearings							x		**7-28**

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ALARM(S)

ENGINE

Problem	Possible Cause	Correction
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check fuel level.
	Air in fuel system.	Bleed fuel system.
	Engine oil viscosity not right.	Use oil of right viscosity.
	Fuel not suitable for ambient temperature.	Use correct type of fuel for temperature conditions.
	Fuel system contaminated.	Clean system.
	Fuel filter clogged.	Replace filter element.
	Fuel injector fault.	Contact your dealer.
The engine does not run properly and/or cuts out.	Fuel system contaminated.	Clean system.
	Fuel injector fault	Contact your dealer
Engine does not reach maximum power.	Engine overload.	Change to lower gear or reduce load.
	Air filter clogged.	Carry out maintenance on air filter.
	Incorrect fuel type.	Use the right fuel.
	Low engine operating temperature.	Check thermostat.
	Fuel injector fault.	Have your dealer check the injectors.
	Implement incorrectly set.	See equipment manual.
	Valve clearance wrong.	Check and adjust.
	Idling speed too low.	Contact your dealer.
Abnormal engine knocking.	Oil level low.	Top up oil.
	Oil pressure low.	Contact your dealer.
Low engine operating temperature.	Thermostat malfunction.	Replace thermostat.
Oil pressure low.	Oil level low.	Add oil as required.
	Oil grade or viscosity wrong.	Drain and refill with oil of correct grade and viscosity.
Excessive oil consumption.	Oil level too high.	Reduce oil level.
	Oil viscosity wrong.	Use oil of correct viscosity.
	Oil leaking.	Repair leaks.
	Breather pipe filter clogged.	Replace breather pipe filter.
Engine overheating.	Radiator core clogged.	Clean.
	Engine overload.	Change to lower gear or reduce load.
	Engine oil level low.	Top up oil level.
	Coolant level low.	Top up fluid level in expansion tank; check system for leaks.
	Radiator cap defective.	Replace cap.
	Fan belt slipping or worn.	Check tensioning device; replace belt if worn.
	Cooling system clogged.	Flush cooling system.
	Thermostat malfunction.	Check thermostat.
	Hoses leaking.	Tighten hose connectors.
	Temperature indicator or gauge malfunction.	Contact your dealer.
Excessive fuel consumption.	Wrong fuel type.	Use right fuel type.
	Air filter dirty or clogged.	Carry out maintenance on air filter.
	Engine overload.	Change to lower gear or reduce load.
	Valve clearance wrong.	Check and adjust.
	Equipment wrongly adjusted.	Refer to equipment manual for correct operation.

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COMPONENT TO BE FILLED OR TOPPED UP	QUANTITY		RECOM-MENDED PRODUCTS	INTERNA-TIONAL SPECI-FICATION
Front axle: - axle housing for TD5.65 models	4.5	1.19	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL** NH 410B	**API GL-4 ISO 32/46 SAE 10W - 30**
TD5.75, TD5.80, TD5.90, TD5.100, TD5.110 models	7.0	1.85		
- final drives (each): TD5.65 models	0.8	0.21		
TD5.75, TD5.80, TD5.90, TD5.100, TD5.110 models	1.25	0.33		
Rear transmission (bevel drive and brakes), gearbox, hydraulic lift and PTO	43	11.36		
Rear final drives (each)				
- TD5.65	3.9	1.03		
- TD5.75, TD5.80, TD5.90, TD5.100, TD5.110 models	5.3	1.40		
Front wheel hubs			Grease **NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE**	**NLGI 2**
Grease fittings				

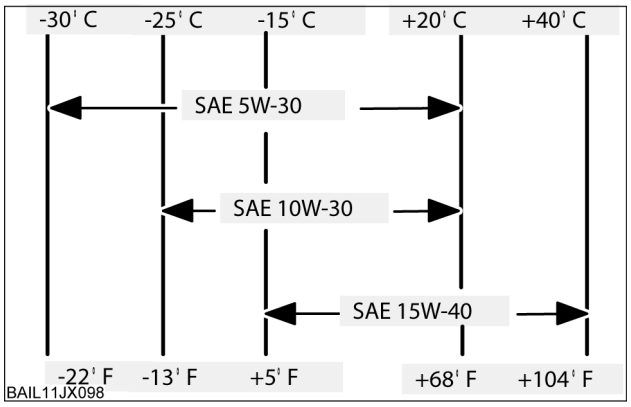
*See page **9-2** for information about using biodegradable oil in the transmission, axles, hubs, and hydraulic system.

NOTICE: *Use only heavy-duty, low silicate coolant such as* ***NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT*** *anti-freeze. Automotive antifreeze purchased at local supply store outlets most likely is not low silicate and must not be used in heavy-duty diesel engines. Always have a minimum of 50% ethylene glycol coolant in the cooling system, adjusting the concentration based on ambient temperature, according to coolant label instructions. Use good quality water. Deionized water is ideal for cooling systems and is contained in some prepackaged coolants labeled as pre-mixed with water. If the low silicate ethylene glycol coolant is not pre-charged with supplemental diesel coolant additive/inhibitor, this must be added to the solution to provide protection against corrosion and pitting.*

Consumables

Lubricants

Refer to the chart on the right when selecting the oil grade for your tractor engine.
In areas where prolonged periods of extreme temperatures are encountered, local lubricant practices are acceptable; such as the use of SAE 5W in extreme low temperatures or SAE 50 in extreme high temperatures.



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STARTING AND STOPPING

STARTING IN LOW OUTSIDE TEMPERATURE CONDITIONS

When starting the engine with low outside temperatures and when the engine is cold, proceed as follows:

1. Avoid running down the battery. Any single engine starting attempt shoud not last longer than 15 seconds. If the engine fires but does not start, continue the attempt up to a maximum of 30 seconds.
2. Wait for at least one minute between each attempt to start the engine.
3. To avoid excessively running down the battery, do not make more than six attempts to start the engine.

GRID HEATER COLD START AID (where fitted)

⚠ WARNING

Explosion hazard!
DO NOT use ether starting fluid. Serious engine damage, explosion, death, or serious personal injury could occur.
Failure to comply could result in death or serious injury.

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ATTENTION: *When starting the engine after the tractor has been out of use for some time, avoid using the hydraulic system immediately, as all the moving parts need to be lubricated properly before they are subjected to full load, especially when the external temperature approaches 0°C. Run the engine at 1300 –1500 speed for around 5 minutes to bring the oil in the rear transmission up to working temperature.*

ATTENTION: *Before accelerating or starting, let the engine idle at 1000 speed for 30 seconds to ensure that the turbocharger is fully lubricated.*

ATTENTION: *If one of the warning lights illuminates to signal a fault, stop the engine and investigate the problem. If the warning light continues to signal a fault, have the machine checked by your authorised dealer.*

ATTENTION: *To prevent separation of the paraffin components in the diesel fuel, when the external temperature falls below freezing – leading to a reduction in fluidity and consequent fuel supply problems (especially when starting the engine), use only Winter grade diesel or mix the diesel with a proprietary cold weather additive in the proportions stated on the container. Winter additive must be mixed with the diesel fuel before there is any sign of paraffin separation; adding it later will have no effect on an engine if the cold has already caused the engine to stop running or prevent it being started.*
Put the additive in the tank first, followed by the diesel fuel. The additive will ensure that there is an optimum fuel supply to the engine without reducing performance, even when the external temperature drops below –20 C

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Maintenance action	Check	Adjust	Cleaning	Drain fluid	Bleed	Replace	Change fluid	Grease	Page no.
Alternator belt	x								7-28
Transmission oil filter						x			7-28
EVERY 500 HOURS									
Fuel filter						x			7-29
Fuel prefilter						x			7-30
EVERY 600 HOURS									
EVERY 1200 HOURS OR ANNUALLY									
Cab air filter						x			7-31
Air cleaner						x			7-31
Fuel tank			x						7-31
Drive Shaft Sleeve for 4WD Front Axle Connection	x								7-32
EVERY 1200 HOURS OR EVERY 2 YEARS									
Front axle housing oil, 4WD							x		7-32
Front axle final drive hubs oil, 4WD							x		7-33
Engine valves	x								7-33
Transmission and hydraulic oil							x		7-33
Rear axle final reduction oil							x		7-34
EVERY 1800 HOURS									
Fuel injectors	x								7-35
EVERY 3600 HOURS									
Engine cooling system - Change fluid							x		7-35
GENERAL MAINTENANCE									
Bleeding the fuel injection system								x	7-36
Bleeding the brake system								x	7-37
Battery fluid level	x								7-37
Fuses and relay box						x			7-39
Headlights - adjust		x							7-42
Replacing front headlight bulbs						x			7-42
Cleaning the tractor			x						7-44

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Electrical System

Problem	Possible Cause	Correction
The electrical system does not work.	Battery terminals loose or corroded.	Clean and tighten terminals.
	Sulphated battery.	Check that battery charge is at least **12.6 V**; check electrolyte level and specific gravity
Low starter motor speed and difficulty in starting engine.	Connections loose or corroded.	Clean and tighten loose connections.
	Battery.	Check that battery charge is at least **12.6 V** check electrolyte level and specific gravity.
	Engine oil viscosity wrong.	Use oil of viscosity specified for temperature conditions.
Starter motor does not work.	Gear lever engaged.	Move gear lever to neutral.
	Connections loose or corroded.	Clean and tighten loose connections.
	Battery totally flat.	Charge or replace battery.
Battery charge light stays on when engine is running.	Engine idling speed is low.	Increase idling speed.
	Altrnator belt loose.	Check belt tensioning device.
	Battery fault.	Check that battery charge is at least **12.6 V**; check electrolyte level and specific gravity.
	Alternator fault.	Have the alternator checked by your dealer.
	Fault with electrical system.	Have the alternator checked by your dealer or an authorised workshop.
Battery not charging.	Terminals loose or corroded.	Clean and tighten terminals.
	Battery.	Check that battery charge is at least **12.6 V**; check electrolyte level and specific gravity.
	Belt loose or worn.	Check belt tensioning device. If necessary, replace the belt.
The battery charge light flashes to indicate excessive charge voltage.	Alternator fault.	Have the alternator checked by your dealer.
	Fault with the electrical system.	Have the alternator checked by your dealer or an authorised workshop.

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