ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

140TL

Loader



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1 - GENERAL INFORMATION

Note to the owner

This manual contains information concerning the adjustment and maintenance of your new equipment. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this equipment. Please have all operators read this manual carefully and keep it available for ready reference.

Your NEW HOLLAND dealer will instruct you in the general operation of your new equipment. (Refer to the 'Delivery Report' at the back of this manual.) Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your machine. New Holland Top Service is also available. Call 1-866-NEWHLND (1-866-639-4563) or email na.topservice@cnh.com.

Your NEW HOLLAND dealer carries a complete line of genuine NEW HOLLAND service parts. These parts are manufactured and carefully inspected to insure high quality and accurate fitting of any necessary replacement parts. Be prepared to give your dealer the model and product identification number of your new equipment when ordering parts. Locate these numbers now and record them below. Refer to the 'General Information' section of this manual for the location of the model and product identification numbers of your machine.

PLEASE RECORD THE FOLLOWING INFORM Loader Model	ATION
Product Identification Number (PIN)	
Date Purchased	
Attachment Model	
Attachment Model	



This is the safety alert symbol. It is used with and without signal words to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

▲ WARNING

Illustrations in this manual may show protective shielding open or removed to better illustrate a particular feature or adjustment.

Replace all shields before operating the machine.

Failure to comply could result in death or serious injury.

W0012A

Improvements

CNH America LLC is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

Intended use

The loader was designed to mount on NEW HOLLAND approved tractors. The loader is designed to load and move materials with a variety of buckets and approved NEW HOLLAND attachments.

DO NOT use this machine for any purpose or in any manner other than as described in the manual, decals, or other product safety information provided with the machine. These materials define the machine's intended use.

Use only approved accessories and attachments designed for your machine. Consult your dealer on changes, additions or modifications that may be required for your machine. Do not make any unauthorized modifications to your machine.

Installation and operation instructions for certain hydraulic valve sets, attachments and accessories may not be included in this operator's manual.

Use the publication received with the specific item. In the case of hydraulic valves, refer to the tractor operator's manual.

NOTICE: Loader frames are designed for specific tractor models. Do not install a loader frame on a different model than specified, without obtaining approval from CNH America LLC.

Operator's age

All persons who will be operating this machine shall possess a valid local vehicle operating permit and/or other applicable local age work permits.

A WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY.
MAKE SURE THAT EVERY OPERATOR:

- -is instructed in the safe and proper use of this machine.
- -reads and understands the operator's manual for this machine.
- -reads and understands ALL safety signs on the machine.

Failure to comply could result in death or serious injury.

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Read and thoroughly understand this manual before operating this machine. If you are an inexperienced operator, study this manual and receive operating instructions from an experienced operator. Your dealer can assist you in learning machine operation and show you proper operating procedures. Keep this manual readily available, preferably with the machine. If the original manual is damaged, order a new one from your dealer.

Manual scope and required training level

Introduction to this manual

This manual gives information about the use of your NEW HOLLAND machine as intended and under the conditions foreseen by NEW HOLLAND during normal operation, routine service, and maintenance.

This manual does not contain all the information that relates to periodic service, conversions, and repairs that only trained service personnel can perform. Some of these activities may require appropriate facilities, technical skills, and/or tools that NEW HOLLAND does not supply with the machine.

The manual contains the chapters as shown on the Contents pages. See the Index at the end of this manual to locate specific items about your NEW HOLLAND machine.

Normal operation

Normal operation consists of the use of this machine for the purpose NEW HOLLAND intends by an operator that:

- Is familiar with the machine and any mounted equipment or towed equipment
- Complies with the information on operation and safe practices as specified by NEW HOLLAND in this manual and by the signs on the machine

Normal operation includes:

- · Preparation and storage of the machine
- · Addition and removal of ballast
- Connection and disconnection of mounted equipment and/or towed equipment
- Adjustment and configuration of the machine and equipment for the specific conditions of the job site, field, and/or crop
- Movement of components into and out of working positions

Routine service and maintenance

Routine service and maintenance consists of the daily activities necessary to maintain the proper machine function. The operator must:

- · Be familiar with the machine characteristics
- Comply with the information on routine service and safe practices as specified by NEW HOLLAND in this manual and by the signs on the machine

Routine service can include:

- Fueling
- Cleaning
- Washing
- · Topping up fluid levels

- Greasing
- · Replacing consumable items such as light bulbs

Periodic service, conversions, and repairs

Periodic service consists of activities that are necessary to maintain the expected life of the NEW HOLLAND machine. These activities have defined intervals.

Trained service personnel familiar with the machine characteristics must perform these activities at the defined intervals. Trained service personnel must comply with the information on periodic service and safe practices as partly specified by NEW HOLLAND in this manual and/or other company literature.

Periodic service includes:

- Oil change service for the engine, hydraulic circuits, or transmission
- Periodic exchange of other substances or components as required

Conversion activities rebuild the NEW HOLLAND machine in a configuration that is appropriate for a specific job site, crop, and/or soil conditions (e.g., installation of dual wheels). Conversion activities must be done:

- By trained service personnel familiar with the machine characteristics
- By trained service personnel that comply with the information on conversion as partly specified by NEW HOLLAND in this manual, assembly instructions, and/or other company literature

Repair activities restore proper function to a NEW HOL-LAND machine after a failure or degradation of performance. Dismantling activities occur during the scrapping and/or dismantling of the machine.

Trained service personnel familiar with the machine characteristics must perform these activities. Trained service personnel must comply with the information for repair as specified by NEW HOLLAND in the service manual.

Before you operate

Read this manual before you start the engine or operate this NEW HOLLAND machine. Contact your NEW HOLLAND dealer if:

- You do not understand any information in this manual
- · You need more information
- · You need assistance

All persons training to operate, or who will operate this NEW HOLLAND machine should be old enough to possess a valid local vehicle operating permit (or meet other applicable local age requirements). These persons must

demonstrate the ability to operate and service the NEW HOLLAND machine in a correct and safe manner.				

Ecology and the environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances. Your NEW HOLLAND dealer can also provide assistance.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.

- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your NEW HOLLAND dealer or air-conditioning specialist has a special extractor for this purpose and can recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
- Protect hoses during welding. Penetrating weld splatter may burn a hole or weaken hoses, allowing the loss of oils, coolant, etc.

International symbols

As a guide to the operation of the machine, 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.

6	Thermostart starting aid	Ľ	Radio		РТО	≯ ₹	Position Control
===	Alternator charge	KAM	Keep alive memory	N	Transmission in neutral	<u> </u>	Draft Control
	Fuel level	$\Diamond \Diamond$	Turn signals	10	Creeper gears	4	Accessory socket
	Automatic Fuel shut-off	\$1 \$	Turn signals -one trailer	A	Slow or low setting	50	Implement socket
	Engine speed (RPM x 100)	\$ 2 	Turn signals -two trailers	4	Fast or high setting	16 €%	%age slip
	Hours recorded	€	Front wind- screen wash/wipe	1	Ground speed	<u> </u>	Hitch raise (rear)
→	Engine oil pressure	abla	Rear wind- screen wash/wipe	€6 €	Differential lock	<u>X</u>	Hitch lower (rear)
	Engine coolant temperature	$\widehat{\mathbb{U}}_{1}$	Heater temp- erature control		Rear axle oil tem- perature	<u>/</u> 1	Hitch height limit (rear)
	Coolant level	*	Heater fan	* () *	Transmission oil pressure	<u>†</u>	Hitch height limit (front)
-\ <u>\</u>	Tractor lights	${\bf \mathbb{J}}^{\rm f}$	Air conditioner	T H	FWD engaged		Hitch dis- abled
$\equiv 0$	Headlamp main beam		Air filter blocked	T H	FWD dis- engaged	4	Hydraulic and transmission filters
1	Headlamp dipped beam	(P)	Parking brake		Warning!	=_	Remote valve extend
到便	Work lamps		Brake fluid level		Hazard warning lights	-	Remote valve retract
	Stop lamps		Trailer brake		Variable control		Remote valve float
	Horn	计	Roof beacon	***	Pressurised! Open carefully		Malfunction! See Operator's Manual
			Warning!			<i>_</i>	Malfunction!

Corrosive substance

(alter-

native symbol)

Torque - Minimum Tightening Torques for Normal Assembly

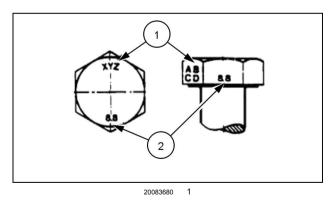
METRIC NON-FLANGED HARDWARE

NOM. SIZE					LOCKNUT CL.8	LOCKNUT CL.10
	CLASS 8.8		CLASS 10.9		W/CL8.8	W/CL10.9
	CLASS	8 NUT	CLASS	<u> 10 NUT</u>	BOLT	BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.2 N·m (19 lb in)	2.9 N·m (26 lb in)	3.2 N·m (28 lb in)	4.2 N·m (37 lb in)	2 N·m (18 lb in)	2.9 N·m (26 lb in)
M5	4.5 N·m (40 lb in)	5.9 N·m (52 lb in)	6.4 N·m (57 lb in)	8.5 N·m (75 lb in)	4 N·m (36 lb in)	5.8 N·m (51 lb in)
M6	7.5 N·m (66 lb in)	10 N·m (89 lb in)	11 N·m (96 lb in)	15 N·m (128 lb in)	6.8 N·m (60 lb in)	10 N·m (89 lb in)
M8	18 N·m (163 lb in)	25 N·m (217 lb in)	26 N·m (234 lb in)	35 N·m (311 lb in)	17 N·m (151 lb in)	24 N·m (212 lb in)
M10	37 N·m (27 lb ft)	49 N·m (36 lb ft)	52 N·m (38 lb ft)	70 N·m (51 lb ft)	33 N·m (25 lb ft)	48 N·m (35 lb ft)
M12	64 N·m (47 lb ft)	85 N·m (63 lb ft)	91 N·m (67 lb ft)	121 N·m (90 lb ft)	58 N·m (43 lb ft)	83 N·m (61 lb ft)
M16	158 N·m (116 lb ft)	210 N·m (155 lb ft)	225 N·m (166 lb ft)	301 N·m (222 lb ft)	143 N·m (106 lb ft)	205 N·m (151 lb ft)
M20	319 N·m (235 lb ft)	425 N·m (313 lb ft)	440 N·m (325 lb ft)	587 N·m (433 lb ft)	290 N·m (214 lb ft)	400 N·m (295 lb ft)
M24	551 N·m (410 lb ft)	735 N·m (500 lb ft)	762 N·m (560 lb ft)	1016 N·m (750 lb ft)	501 N·m (370 lb ft)	693 N·m (510 lb ft)

NOTE: M4 through M8 hardware torque specifications are shown in pound-inches. M10 through M24 hardware torque specifications are shown in pound-feet.

IDENTIFICATION

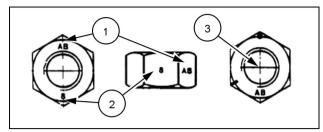
Metric Hex head and carriage bolts, classes 5.6 and up



1. Manufacturer's Identification

2. Property Class

Metric Hex nuts and locknuts, classes 05 and up



20083681

- 1. Manufacturer's Identification
- 2. Property Class

3. Clock Marking of Property Class and Manufacturer's Identification (Optional), i.e. marks **60** ° apart indicate Class 10 properties, and marks **120** ° apart indicate Class 8.

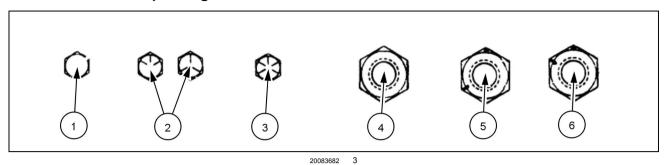
INCH NON-FLANGED HARDWARE

NOMINAL SIZE	SAE GRAD		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UN- PLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UN- PLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	8 N·m (71 lb in)	11 N·m (97 lb in)	12 N·m (106 lb in)	16 N·m (142 lb in)	8.5 N·m (75 lb in)	12.2 N·m (109 lb in)
5/16	17 N·m (150 lb in)	23 N·m (204 lb in)	24 N·m (212 lb in)	32 N·m (283 lb in)	17.5 N·m (155 lb in)	25 N·m (220 lb in)
3/8	30 N·m (22 lb ft)	40 N·m (30 lb ft)	43 N·m (31 lb ft)	57 N·m (42 lb ft)	31 N·m (23 lb ft)	44 N·m (33 lb ft)
7/16	48 N·m (36 lb ft)	65 N·m (48 lb ft)	68 N·m (50 lb ft)	91 N·m (67 lb ft)	50 N·m (37 lb ft)	71 N·m (53 lb ft)
1/2	74 N·m (54 lb ft)	98 N·m (73 lb ft)	104 N·m (77 lb ft)	139 N·m (103 lb ft)	76 N·m (56 lb ft)	108 N·m (80 lb ft)
9/16	107 N·m (79 lb ft)	142 N·m (105 lb ft)	150 N·m (111 lb ft)	201 N·m (148 lb ft)	111 N·m (82 lb ft)	156 N·m (115 lb ft)
5/8	147 N·m (108 lb ft)	196 N·m (145 lb ft)	208 N·m (153 lb ft)	277 N·m (204 lb ft)	153 N·m (113 lb ft)	215 N·m (159 lb ft)
3/4	261 N·m (193 lb ft)	348 N·m (257 lb ft)	369 N·m (272 lb ft)	491 N·m (362 lb ft)	271 N·m (200 lb ft)	383 N·m (282 lb ft)
7/8	420 N·m (310 lb ft)	561 N·m (413 lb ft)	594 N·m (438 lb ft)	791 N·m (584 lb ft)	437 N·m (323 lb ft)	617 N·m (455 lb ft)
1	630 N·m (465 lb ft)	841 N·m (620 lb ft)	890 N·m (656 lb ft)	1187 N·m (875 lb ft)	654 N·m (483 lb ft)	924 N·m (681 lb ft)

NOTE: For Imperial Units, 1/4 in and 5/16 in hardware torque specifications are shown in pound-inches. 3/8 in through 1 in hardware torque specifications are shown in pound-feet.

IDENTIFICATION

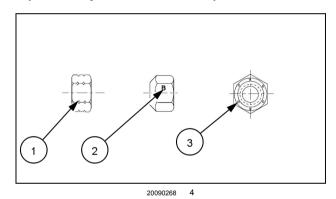
Inch Bolts and free-spinning nuts



Grade Marking Examples

SAE Grade Identification					
1	Grade 2 - No Marks	4	Grade 2 Nut - No Marks		
2	Grade 5 - Three Marks	5	Grade 5 Nut - Marks 120 ° Apart		
3	Grade 8 - Five Marks	6	Grade 8 Nut - Marks 60 ° Apart		

Inch Lock Nuts, All Metal (Three optional methods)



Grade Identification

Grade	Corner Marking Method (1)	Flats Marking Method (2)	Clock Marking Method (3)
Grade A	No Notches	No Mark	No Marks
Grade B	One Circumferential Notch	Letter B	Three Marks
Grade C	Two Circumferential Notches	Letter C	Six Marks

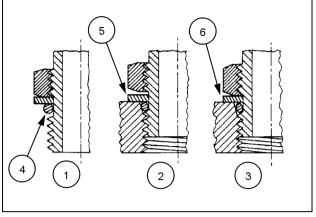
Torque - Standard torque data for hydraulics

INSTALLATION OF ADJUSTABLE FITTINGS IN STRAIGHT THREAD O RING BOSSES

- 1. Lubricate the O-ring by coating it with a light oil or petroleum. Install the O-ring in the groove adjacent to the metal backup washer which is assembled at the extreme end of the groove (4).
- 2. Install the fitting into the SAE straight thread boss until the metal backup washer contacts the face of the boss (5).

NOTE: Do not over tighten and distort the metal backup washer.

3. Position the fitting by turning out (counterclockwise) up to a maximum of one turn. Holding the pad of the fitting with a wrench, tighten the locknut and washer against the face of the boss (6).



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STANDARD TORQUE DATA FOR HY-DRAULIC TUBES AND FITTINGS

	TUBE NUTS	O-RING BOSS PLUGS ADJUSTABLE FITTING LOCKNUTS, SWIVEL JIC- 37° SEATS		
SIZE	TUBING OD	THREAD SIZE	TORQUE	TORQUE
4	6.4 mm (1/4 in)	7/16-20	12 – 16 N·m (9 – 12 lb ft)	8 – 14 N·m (6 – 10 lb ft)
5	7.9 mm (5/16 in)	1/2-20	16 – 20 N·m (12 – 15 lb ft)	14 – 20 N·m (10 – 15 lb ft)
6	9.5 mm (3/8 in)	9/16-18	29 – 33 N·m (21 – 24 lb ft)	20 – 27 N·m (15 – 20 lb ft)
8	12.7 mm (1/2 in)	3/4-16	47 – 54 N·m (35 – 40 lb ft)	34 – 41 N·m (25 – 30 lb ft)
10	15.9 mm (5/8 in)	7/8-14	72 – 79 N·m (53 – 58 lb ft)	47 – 54 N·m (35 – 40 lb ft)
12	19.1 mm (3/4 in)	1-1/16-12	104 – 111 N·m (77 – 82 lb ft)	81 – 95 N·m (60 – 70 lb ft)
14	22.2 mm (7/8 in)	1-3/16-12	122 – 136 N·m (90 – 100 lb ft)	95 – 109 N·m (70 – 80 lb ft)
16	25.4 mm (1 in)	1-5/16-12	149 – 163 N·m (110 – 120 lb ft)	108 – 122 N·m (80 – 90 lb ft)
20	31.8 mm (1-1/4 in)	1-5/8-12	190 – 204 N·m (140 – 150 lb ft)	129 – 158 N·m (95 – 115 lb ft)
24	38.1 mm (1-1/2 in)	1-7/8-12	217 – 237 N·m (160 – 175 lb ft)	163 – 190 N·m (120 – 140 lb ft)
32	50.8 mm (2 in)	2-1/2-12	305 – 325 N·m (225 – 240 lb ft)	339 – 407 N·m (250 – 300 lb ft)

These torques are not recommended for tubes of 12.7 mm (1/2 in) OD and larger with wall thickness of 0.889 mm (0.035 in) or less. The torque is specified for 0.889 mm (0.035 in) wall tubes on each application individually.

Before installing and torquing 37 ° flared fittings, clean the face of the flare and threads with a clean solvent or Loctite

cleaner and apply hydraulic sealant **LOCTITE® 569** to the **37** ° flare and the threads.

Install fitting and torque to specified torque, loosen fitting and retorque to specifications.

PIPE THREAD FITTING TORQUE

Before installing and tightening pipe fittings, clean the threads with a clean solvent or Loctite cleaner and apply sealant LOCTITE® 567 PST PIPE SEALANT for all fittings including stainless steel or LOCTITE® 565 PST for most metal fittings. For high filtration/zero contamination systems use LOCTITE® 545.

INSTALLATION O	F ORFS	(O-RING	FLAT
FACED) FITTINGS			

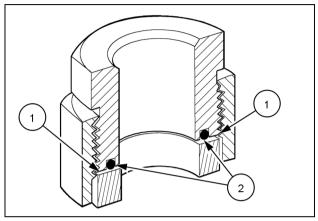
When installing ORFS fittings thoroughly clean both flat surfaces of the fittings (1) and lubricate the O-ring (2) with light oil. Make sure both surfaces are aligned properly. Torque the fitting to specified torque listed throughout the repair manual.

NOTICE: If the fitting surfaces are not properly cleaned, the O-ring will not seal properly. If the fitting surfaces are not properly aligned, the fittings may be damaged and will not seal properly.

NOTICE: Always use genuine factory replacement oils and filters to ensure proper lubrication and filtration of engine and hydraulic system oils.

The use of proper oils, grease, and keeping the hydraulic system clean will extend machine and component life.

PIPE THREAD FITTING			
Thread Size Torque (Maximum)			
1/8-27	13 N·m (10 lb ft)		
1/4-18	16 N·m (12 lb ft)		
3/8-18	22 N·m (16 lb ft)		
1/2-14	41 N·m (30 lb ft)		
3/4-14	54 N·m (40 lb ft)		



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