

NEW HOLLAND

1441

1442

REPAIR MANUAL



NEW HOLLAND

SERVICE

1441, 1442 REPAIR MANUAL CONTENTS

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The sections used through out all New Holland product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books.

The sections listed above are the sections utilized for the 1441, 1442 Disc Mower-Conditioners.

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SPECIAL TOOLS

Tool Number	Description/Use
Section 31	
NHO1386	Pivot tongue gearbox neck cap screws
610R	Snap ring remover
Local Manufacture	Neck lock nut removal
Local Manufacture	Holding tool for neck housing
Local Manufacture	Neck rolling torque measurement
Section 58	
FNH23ET95	Top cap bearing cover
FNH01221-2	Cutter bar tie bolt holding tool
FNH01221-3	Cutter bar wrench

SPECIFICATIONS

MODEL 1441

	Standard Tongue	Swivel Hitch Tongue
Overall Width		
Transport position	4826 mm (15'10")	4826 mm (15'10")
Field position	7137 mm (23'5")	7595 mm (24'11")
Overall Length		
Transport position	8966 mm (29'5")	9271 mm (30'5")
Field position	7366 mm (24'2")	7670 mm (25'2")
Height		
Transport position	2006 mm (6'7")	2006 mm (6'7")
Field position	1727 mm (5'8")	1727 mm (5'8")
Ground Clearance	508 mm (20")	508 mm (20")
Wheel Tread Width	3772 mm (148.5")	3772 mm (148.5")
Weight	2971 kg (6550 lbs.)	2971 kg (6550 lbs.)

SECTION 00 - GENERAL INFORMATION - CHAPTER 1

Driveline

Tractor Requirement	74 KW (100 HP) or greater with standard category 2 or 3 ASAE hitch and PTO locations. Two remote hydraulic circuits capable of 104 bar (1500 PSI).
Input Speed	1000 RPM only
Drive	1000 RPM PTO with slip clutch/overrunning clutch, enclosed gears and (3) HB banded belts with spring loaded idlers.

Header

Cutting Width	4699 mm (15'7")
Flotation	Vertical & radial
Windrow Width	914 mm to 2438 mm (3' to 8')
Header Lift	Hydraulic (master-slave system)

Cutter Bar

Type	Modular
No. of Discs	8 counter-rotating, 4 co-rotating
Knives per Disc	2
Disc Cutting Diameter	500 mm (19.7")
Disc Drive	Bevel gears in sealed modules
Disc Speed	3000 RPM
Cutting Height, Approximate	32 mm to 83 mm (1.25" to 3.25")
Cutting Bar Angle	-2° to -10°

Conditioner

Type	Intermeshing rolls
Drive	4HB V-belt, enclosed gears with u-joint drives to upper & lower rolls.

Rolls

Type	Molded rubber with intermeshing chevron design.
Length	2591 mm (102")
Diameter	264 mm (10.38")
Speed	740 RPM

Operating Speed 0 to 14 KPH (0 to 9 MPH)

Transport Speed 32 KPH (20 MPH) maximum

Capacity 3.36 H/hr (8.97 A/hr) @ 10 KPH (6 MPH) & 80% field efficiency.

Tire 31.5 x 13.5L x 15, 6 ply tubeless agricultural rib implement tire

Tire Pressure 207 kPa or 2.07 bar (30 PSI).

Jack 2000 lb. capacity side-wind

Tongue Shift Hydraulic

SECTION 00 - GENERAL INFORMATION - CHAPTER 1

MODEL 1442

	Standard Tongue	Swivel Hitch Tongue
Overall Width		
Transport position	4826 mm (15'10")	4826 mm (15'10")
Field position	7137 mm (23'5")	7595 mm (24'11")
Overall Length		
Transport position	8966 mm (29'5")	9271 mm (30'5")
Field position	7366 mm (24'2")	7670 mm (25'2")
Height		
Transport position	2006 mm (6'7")	2006 mm (6'7")
Field position	1727 mm (5'8")	1727 mm (5'8")
Ground Clearance	508 mm (20")	508 mm (20")
Wheel Tread Width	3772 mm (148.5")	3772 mm (148.5")
Weight	2971 kg (6550 lbs.)	2971 kg (6550 lbs.)
Driveline		
Tractor Requirement	74 KW (100 HP) or greater with standard category 2 or 3 ASAE hitch and PTO locations. Two remote hydraulic circuits capable of 104 bar (1500 PSI).	
Input Speed	1000 RPM only	
Drive	1000 RPM PTO with slip clutch/overrunning clutch, enclosed gears and (3) HB banded belts with spring loaded idlers.	
Header		
Cutting Width	4750 mm (15'7")	
Flotation	Vertical & radial	
Windrow Width	914 mm to 2438 mm (3' to 8')	
Header Lift	Hydraulic (master-slave system)	
Cutter Bar		
Type	Modular	
No. of Discs	8 counter-rotating, 4 co-rotating	
Knives per Disc	2	
Disc Cutting Diameter	500 mm (19.7")	
Disc Drive	Bevel gears in sealed modules	
Disc Speed	3000 RPM	
Cutting Height, Approximate	32 mm to 83 mm (1.25" to 3.25")	
Cutting Bar Angle	-2° to -10°	
Conditioner		
Type	Flail	
Drive	4HB V-belt, enclosed gears with u-joint drives to rotor.	

SECTION 00 - GENERAL INFORMATION - CHAPTER 1

Rotor

Length 2591 mm (102")
Diameter 560 mm (22")
Speed 1011 RPM (726 RPM optional)

Operating Speed 0 to 14 KPH (0 to 9 MPH)

Transport Speed 32 KPH (20 MPH) maximum

Capacity 3.36 H/hr (8.97 A/hr) @ 10 KPH (6 MPH) &
80% field efficiency.

Tire 31.5 x 13.5L x 15, 6 ply tubeless agricultural
rib implement tire

Tire Pressure 207 kPa or 2.07 bar (30 PSI).

Jack 2000 lb. capacity side-wind

Tongue Shift Hydraulic

LUBRICATION

Adequate lubrication and maintenance on a regular schedule is vital to maintaining your equipment. To ensure long service and efficient operation, follow the lubrication and maintenance schedules outlined in this manual. The use of proper fuels, oils, grease and filters, as well as keeping the systems clean, will also extend machine and component life.

IMPORTANT: Always use genuine **New Holland** replacement parts, oils and filters to ensure proper operation, filtration of engine and hydraulic systems. See your **New Holland** dealer for additional oil quantities.

RECOMMENDED LUBRICANTS AND COOLANTS

Lubricant	Location Used	Type and Description	Part Number	Quart or Liter	Gallon or Tube
Oil	Engine and Pivot Points without Grease Fittings, Chains	SAE 30 API CF-2SJ	9613286	1Qt.	
		SAE 30 API CF-2SJ	9613289		2.5 Gal.
		SAE 30 API CF-2SJ	9613366*	4 L	
		5W-30 API SG/CD	9673589DS	1 Qt.	
		5W-30 API SG/CD	9624590*	4 L	
		10W-30 API SG/CD	9613313	1 Qt.	
		10W-30 API SG/CD	9613314		2.5 Gal.
		10W-30 API SG/CD	9673508DS		5 Gal.
		10W-30 API SG/CD	9613358*	1 L	
		10W-30 API SG/CD	9613359*	4 L	
		15W-40 API CF-4	9613290	1 Qt.	
		15W-40 API CF-4	9673730DS		1 Gal.
		15W-40 API CF-4	9613303		2.5 Gal.
		15W-40 API CF-4	9613292		5 Gal.
		15W-40 API CF-4	9613350*	1 L	
		15W-40 API CF-4	9613351*	4 L	
Coolant	Engine	ESE-M97B18-D, Ethylene Glycol New Holland Spec. Coolant Concentrate	FGCC2701DS		1 Gal.
		Propylene Glycol Concentrate	FGCC2711DS		1 Gal.
Hydraulic Oil	Hydraulic System, Hydrostatic System Front Axle Oil	134D – ESN-M2C134-D New Holland Spec. Hydraulic oil	9624450		2.5 Gal.
		134D – ESN-M2C134-D	9624451		5 Gal.
		134D – ESN-M2C134-D	9613367*	4 L	
		134D – ESN-M2C134-D	9624785*	10 L	
Hydraulic Oil	Optional, Multi-Seasonal Use, Recommended for Low Temperatures	F200	86523625DS	1 Qt.	
		F200	86523626DS		5 Gal.
		F200	86509446*	20 L	
Gear Oil	Gearboxes	80W90 EP Gear Oil API GL5	9613295	1 Qt.	
		80W90 EP Gear Oil API GL5	9613294		2.5 Gal.
		80W90 EP Gear Oil API GL5	9613375*	5 L	
		85W140 EP Gear Oil API GL5	9613297	1 Qt.	
		85W140 EP Gear Oil API GL5	9613296		2.5 Gal.
		85W140 EP Gear Oil API GL5	9613376*	4 L	
Grease	All Grease Fittings	Lithium base EP high temperature	9861804DS		Tube
		Lithium base EP high temperature	9861804CDS*		Tube
Brake Fluid		Mineral Based Oil	1QM6C34A or 86541699DS	1 Qt.	

* **NOTE:** Canada Part Numbers ONLY.

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



SAE GRADE 2



SAE GRADE 5



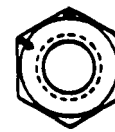
SAE GRADE 8



REGULAR NUTS

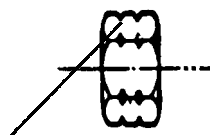


SAE GRADE 5
HEX NUTS



SAE GRADE 8
HEX NUTS

LOCKNUTS

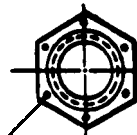


GRADE IDENTIFICATION

GRADE A NO NOTCHES

GRADE B ONE CIRCUMFERENTIAL NOTCH

GRADE C TWO CIRCUMFERENTIAL NOTCHES



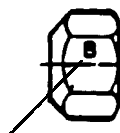
GRADE IDENTIFICATION

GRADE A NO MARKS

GRADE B THREE MARKS

GRADE C SIX MARKS

MARKS NEED NOT BE LOCATED
AT CORNERS



GRADE IDENTIFICATION

GRADE A NO MARK
GRADE B LETTER B
GRADE C LETTER C

MINIMUM HARDWARE TIGHTENING TORQUES

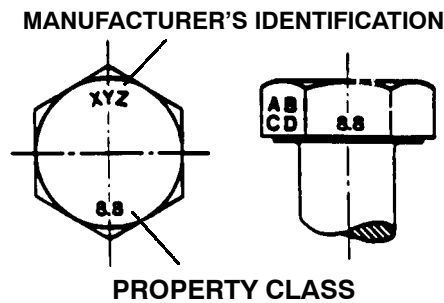
IN FOOT POUNDS (NEWTON-METERS) FOR NORMAL ASSEMBLY APPLICATIONS

METRIC HARDWARE AND LOCKNUTS

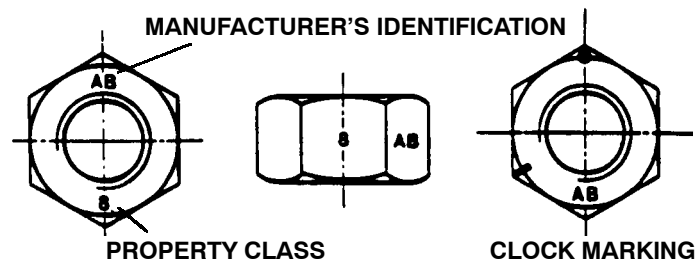
NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	15* (1.7)	19* (2.2)	23* (2.6)	30* (3.4)	33* (3.7)	42* (4.8)	16* (1.8)
M6	51* (5.8)	67* (7.6)	79* (8.9)	102* (12)	115* (13)	150* (17)	56* (6.3)
M8	124* (14)	159* (18)	195* (22)	248* (28)	274* (31)	354* (40)	133* (15)
M10	21 (28)	27 (36)	32 (43)	41 (56)	45 (61)	58 (79)	22 (30)
M12	36 (49)	46 (63)	55 (75)	72 (97)	79 (107)	102 (138)	39 (53)
M16	89 (121)	117 (158)	137 (186)	177 (240)	196 (266)	254 (344)	97 (131)
M20	175 (237)	226 (307)	277 (375)	358 (485)	383 (519)	495 (671)	195 (265)
M24	303 (411)	392 (531)	478 (648)	619 (839)	662 (897)	855 (1160)	338 (458)

NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION HEX CAP SCREW AND CARRIAGE BOLTS CLASSES 5.6 AND UP



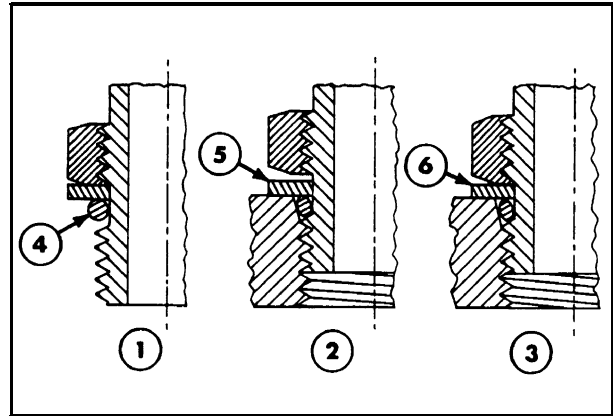
HEX NUTS AND LOCKNUTS CLASSES 05 AND UP



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.

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O RING BOSS PLUGS ADJUSTABLE FITTING LOCKNUTS, SWIVEL JIC - 37° SEATS			
TORQUE								TORQUE			
SIZE	TUBING OD		THREAD SIZE	FOOT POUNDS		NEWTON METERS		FOOT POUNDS		NEWTON METERS	
	In.	mm			Min.	Max.	Min.	Max.	Min.	Max.	Min.
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	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	53	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	158
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

These torques are not recommended for tubes of 1/2" (12.7 mm) OD and larger with wall thickness of 0.035" (0.889 mm) or less. The torque is specified for 0.035" (0.889 mm) 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 no. 569 to the 37° flare and the threads.

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

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