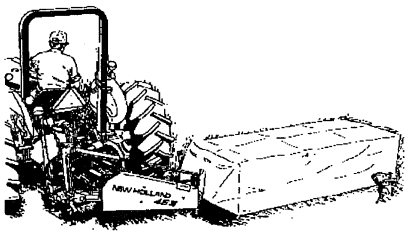
Disc Mowers
442
452
462
463
465

Issue 10/94
(Replaces All Previous Issues)

SERVICE MANUAL



NEW HOLLAND

Reprinted

40044253 10/94

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTENTS

SECTION 0 – SAFETY 0-1
SECTION 1 – GENERAL INFORMATION 1-1
SECTION 2 – ADJUSTMENTS 2-1
SECTION 3 – BEVEL GEARBOX 3-1
SECTION 4 – CUTTER BAR 4-1
SECTION 5 – JACKSHAFT 5-1
SECTION 6 – LUBRICATION 6-1
SECTION 7 – OPTIONAL EQUIPMENT 7-1
SECTION 8 – TROUBLESHOOTING 8-1
SECTION 9 – REPAIR TIME SCHEDULE 9-1
SECTION 10 – SPECIFICATIONS 10-1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

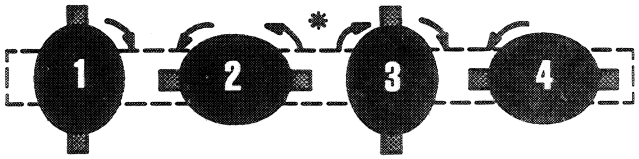
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

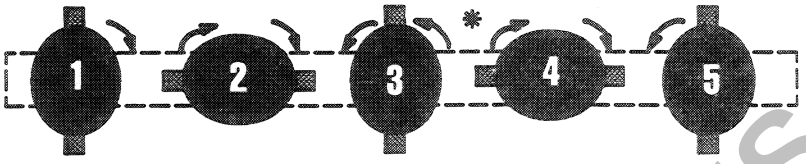
DISC ROTATION

CUTTER BAR CONFIGURATIONS

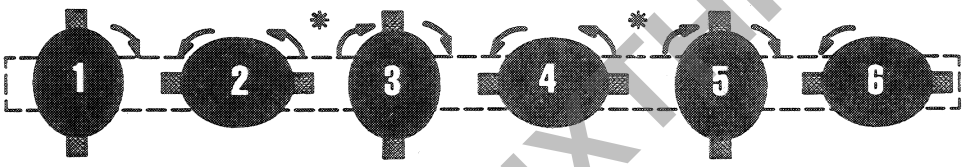
Model: 442
Width: 5′ 3″
H.P. Req.: 30hp



Model: 452
Width: 6′ 7″
H.P. Req.: 40hp



Model: 462 - 463
Width: 7′ 10″
H.P. Req.: 45hp



Model: 465
Width: 9′ 2″
H.P. Req.: 50hp

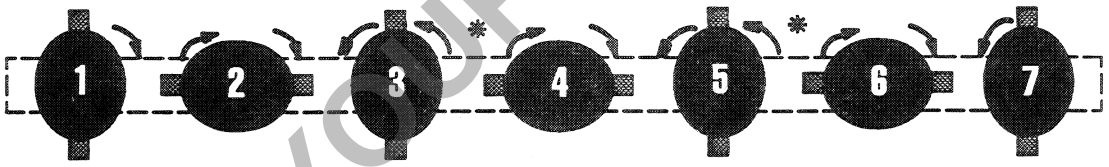


Figure 1-20

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

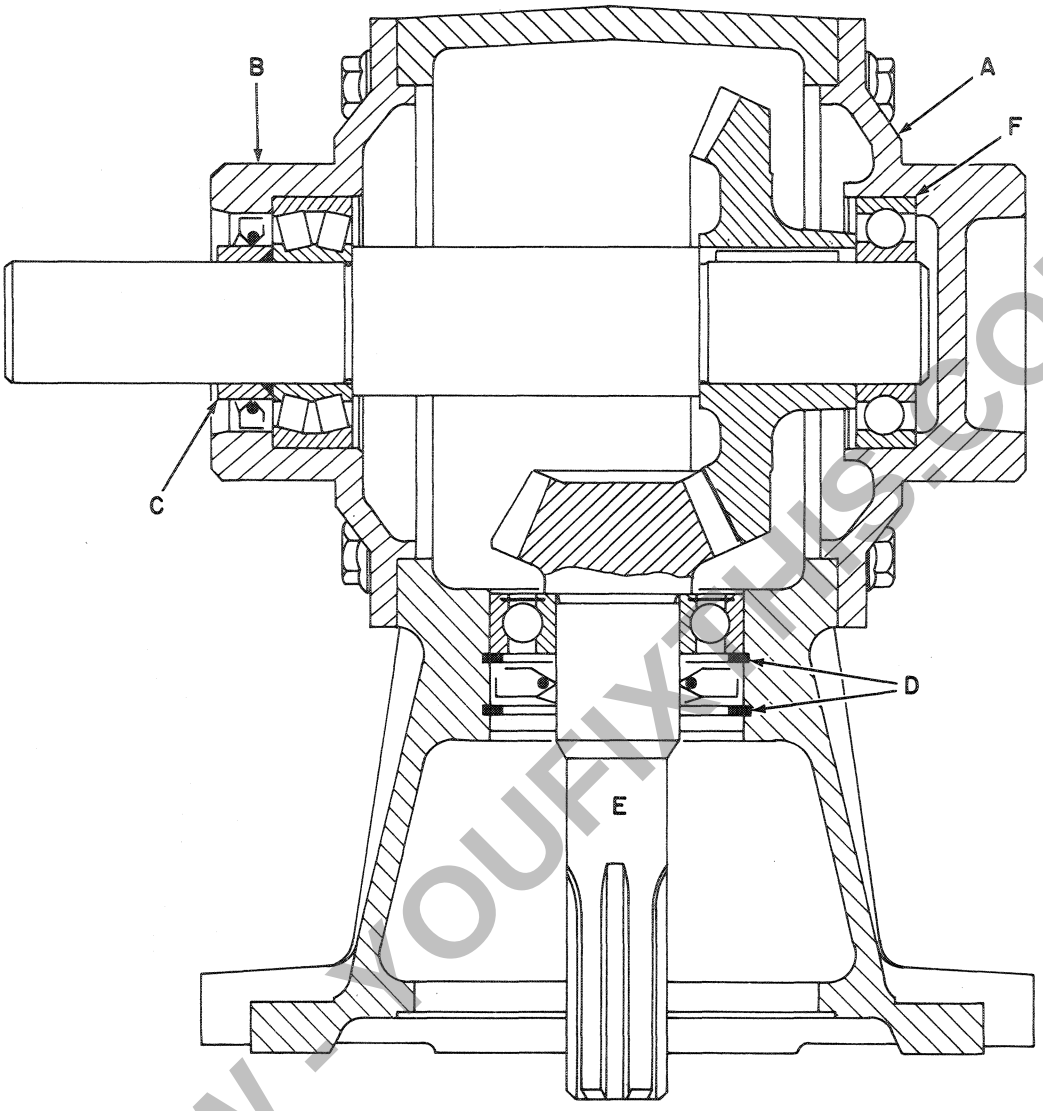


Figure 3-36

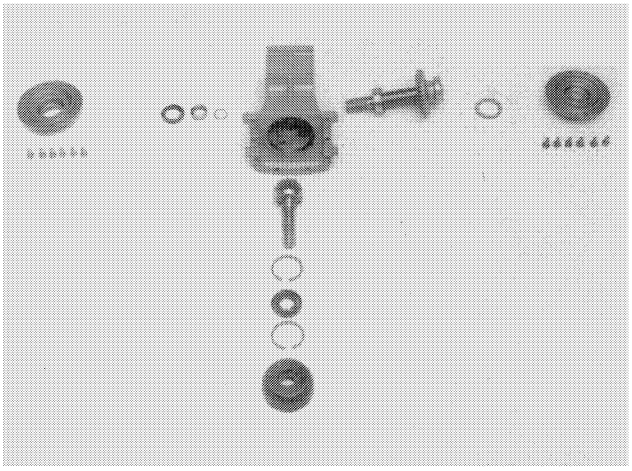


Figure 3-37

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MINIMUM HARDWARE TIGHTENING TORQUES

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

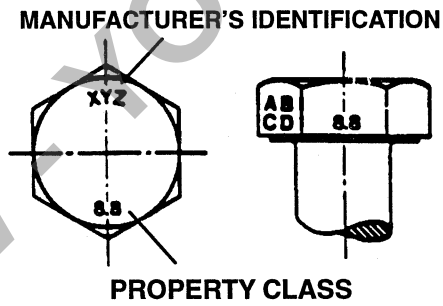
METRIC HARDWARE AND LOCKNUTS

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)

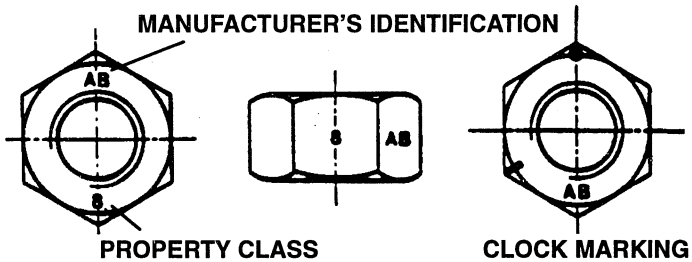
NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION

HEX CAP SCREW AND CARRRIAGE BOLTS
CLASSES 5.6 AND UP



HEX NUTS AND LOCKNUTS
CLASSES 05 AND UP



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ATTACHING THE MOWER TO THE TRACTOR (ALL MODELS)

1. Clean all paint or rust from the hitch pins.
2. Back the tractor to the mower and attach the lower links to the hitch pins. Secure the links with linchpins, A.
3. Attach the top link, B, using the pin provided at, C. Two positions are available on the pin, depending on the diameter of the ball joint, to secure the link to the mower.

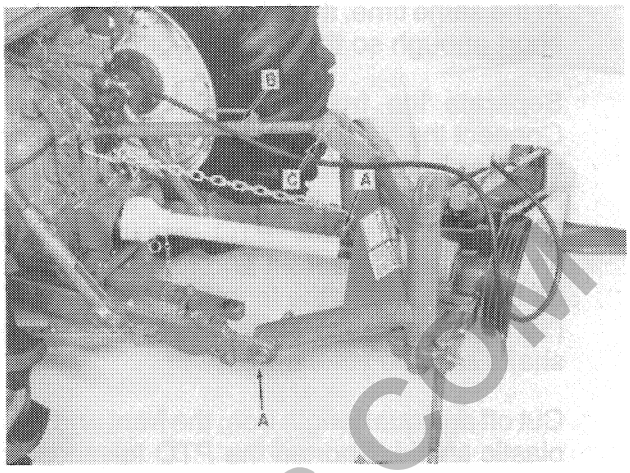


Figure 1-5

4. The PTO assembly, A, must be fitted to the tractor being used.

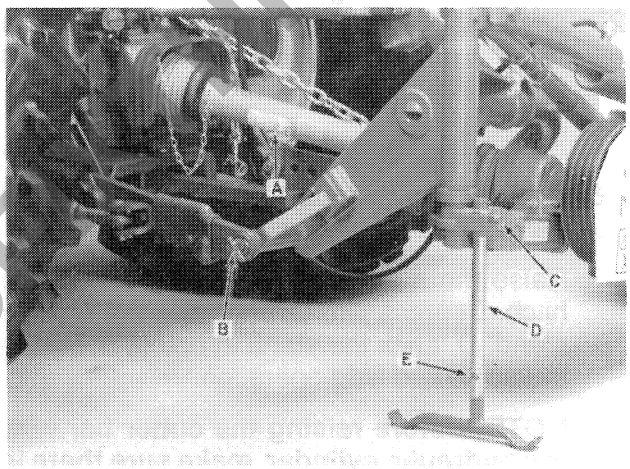


Figure 1-6

The assembly must be long enough so it does not pull apart when the breakaway system, A, is unhooked. The tubes must overlap at least 4″ (102 mm).

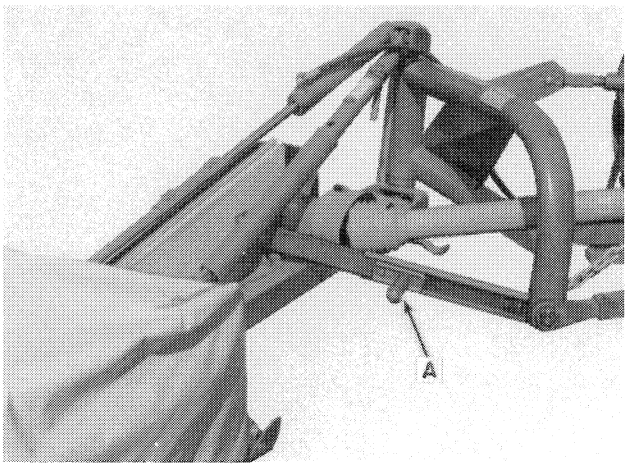


Figure 1-7

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SECTION 8
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Vibration.	PTO shaft of U-joint damage.	Inspect and repair PTO shaft.
	Crop divider cap missing or crop divider damaged.	Replace cap or divider immediately.
	Cutter bar components damaged.	Inspect and repair components.
Cutter bar not floating.	Main frame setting incorrect.	Adjust main frame to 18" (450 mm) from ground and parallel.
	Cutter bar pivot points binding.	Clean and lubricate pivot points.
	Compensating system in transport.	Install pin into field position.
Machine breaking back too easily.	Insufficient tension on breakaway spring.	Tighten breakaway spring.
	Ground speed too fast for crop conditions.	Reduce ground speed.
Difficulty in obtaining correct angle on cutter bar.	Lack of adjustment on top link.	Reposition pivot bolt in top link.
Poor division between cut and uncut crop.	Tangled and down crops.	Check swathboard retaining spring tension.
	Swath stick broken or missing.	Install swath stick.
Uneven stubble/streaking.	Too much or too little tilt on cutter bar.	Reduce tilt.
	Low PTO speed.	Run PTO at 540 RPM.
	Excessive forward speed.	Reduce forward speed.
	Knives dull or broken.	Install new knives.
	Knives stuck under disc.	Straighten or replace knives.
	Drive belts loose.	Tighten drive belts.
	Wind turbulence from knives.	Install straight knives, reduce PTO RPM.
Stubble too long.	Incorrect angle on cutter bar.	Change cutter bar angle.
	Ground speed too fast.	Reduce ground speed.
	Worn or damaged knives.	Replace knives.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 94 pages

The full manual includes:

- All 94 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland 442, 452, 462, 463, 465 Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual