

NEW HOLLAND BR7050

REPAIR MANUAL

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NEW HOLLAND

SERVICE

87728696 11/07
1st Printing

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COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

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PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

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

⚠ DANGER ⚠

This word "DANGER" indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

⚠ WARNING ⚠

This word "WARNING" indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

⚠ CAUTION ⚠

This word "CAUTION" indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

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

MACHINE SAFETY

The precautionary statement ("**IMPORTANT**") is followed by specific instructions. This statement is intended for machine safety.

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.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

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MINIMUM HARDWARE TIGHTENING TORQUES

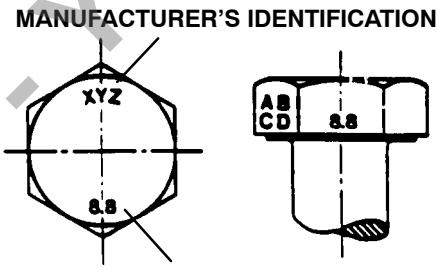
IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

METRIC NON-FLANGED HARDWARE AND LOCKNUTS

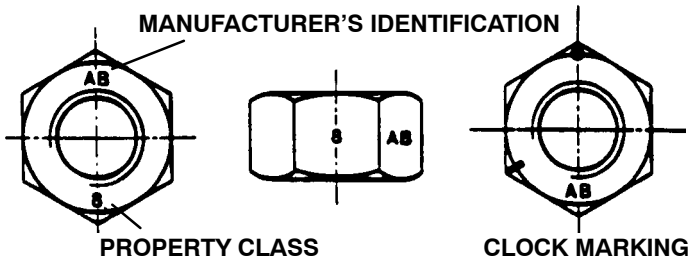
NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	1.7 (15)*	2.2 (19)*	2.6 (23)*	3.4 (30)*	3.7 (33)*	4.8 (42)*	2.3 (20)*
M6	5.8 (51)*	7.6 (67)*	8.9 (79)*	12 (102)*	13 (115)*	17 (150)*	7.8 (69)*
M8	14 (124)*	18 (159)*	22 (195)*	28 (248)*	31 (274)*	40 (354)*	19 (169)*
M10	28 (21)	36 (27)	43 (32)	56 (41)	61 (45)	79 (58)	38 (28)
M12	49 (36)	63 (46)	75 (55)	97 (72)	107 (79)	138 (102)	66 (49)
M16	121 (89)	158 (117)	186 (137)	240 (177)	266 (196)	344 (254)	164 (121)
M20	237 (175)	307 (226)	375 (277)	485 (358)	519 (383)	671 (495)	330 (243)
M24	411 (303)	531 (392)	648 (478)	839 (619)	897 (662)	1160 (855)	572 (422)

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



86529681 REV F 5.1

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SPECIFICATIONS - BR7050

WEIGHT

Base unit	1284 kg (2830 lbs.)
Standard tires (2)	32 kg (70 lbs.)
Flotation tires (2)	41 kg (90 lbs.)
Pickup gauge wheel (1)	20 kg (44 lbs.)
Bale ejector bundle	9 kg (20 lbs.)

OVERALL DIMENSIONS

Width (standard tires)	213 cm (84″)
Width (flotation tires)	216 cm (85″)
Length (tailgate closed)	334 cm (131.5″)
Length (tailgate open)	404 cm (159″)
Height (tailgate closed)	215 cm (84.5″)
Height (tailgate open)	290 cm (144.3″)

TRACTOR REQUIREMENTS

Power	26 kw (35 hp) minimum
Hydraulics	one double-acting outlet required 11,032 kPa (1800 PSI) minimum 21,375 kPa (3100 PSI) maximum
PTO	540 RPM

BALES

Width	1182 mm (46.5″)
Diameter	762 - 1219 mm (30 - 48″)
Weight	295 kg (650 lbs.)

CAPACITY	5 - 9 m tons/hr (6 - 10 T/hr)

TIRES

Standard	27x9.50-15 - 4PR - 207 kPa (30 PSI)
High Moisture	11L-14 - 6 Ply - 193 kPa (28 PSI)

DRIVELINE

PTO	540 RPM constant velocity joint at tractor connection
Gearbox	90° bevel gears in oil
Final drive	Roller chains
Protection	Shear Bolt ahead of gearbox
Pickup slip clutch	316 N·m (2800 in. lbs)

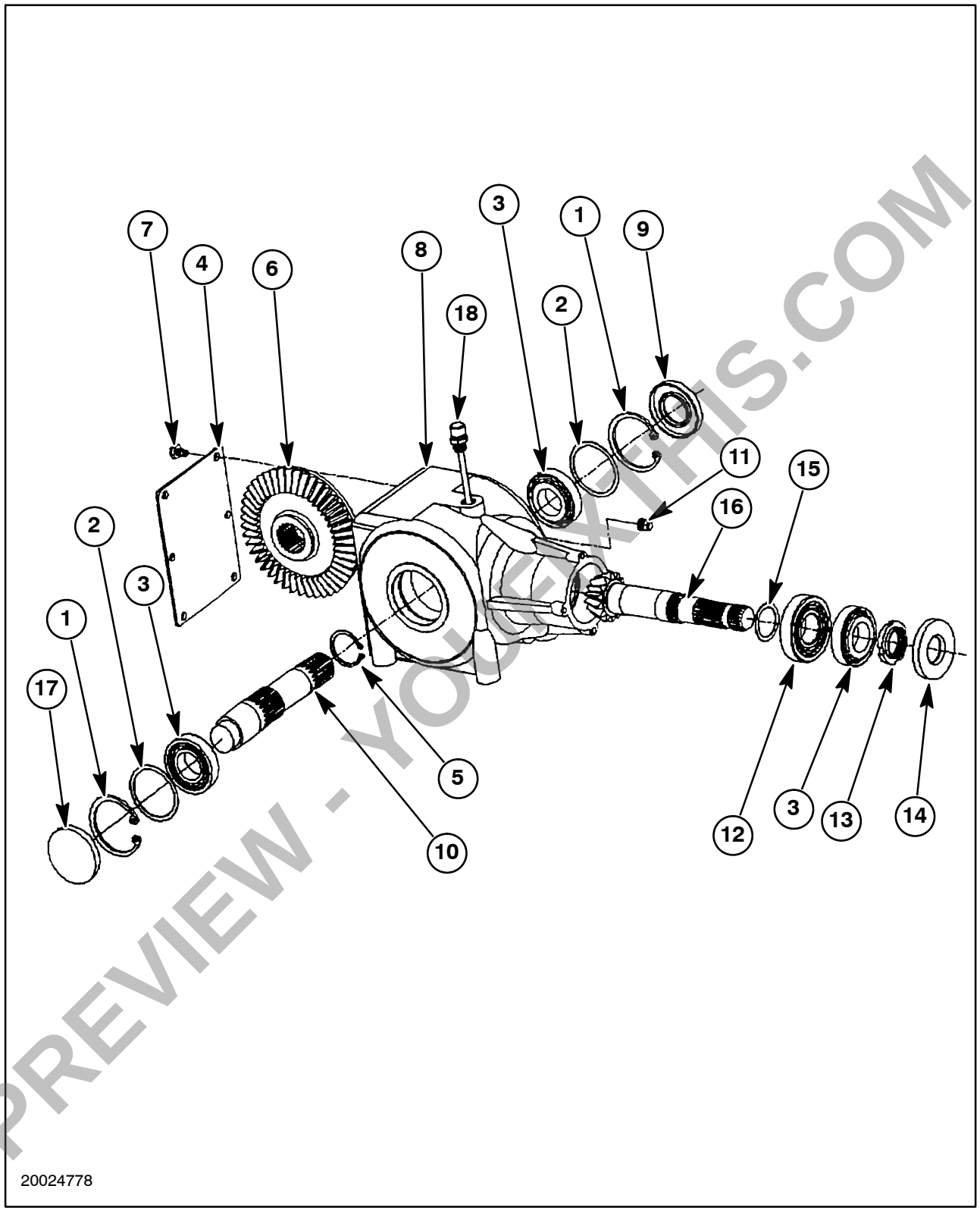
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#	Qty.	Description
1	2	Snap Ring
2	2	Shim Kit
3	3	Bearing
4	1	Cover
5	1	Snap Ring
6	1	Crown Wheel
7	6	Bolt
8	1	Casing
9	1	Double Lip Seal
10	1	Shaft
11	1	Plug
12	1	Bearing
13	1	Nut
14	1	Double Lip Seal
15	1	Shim Kit
16	1	Pinion Shaft
17	1	Cap
18	1	Plug w/Dipstick

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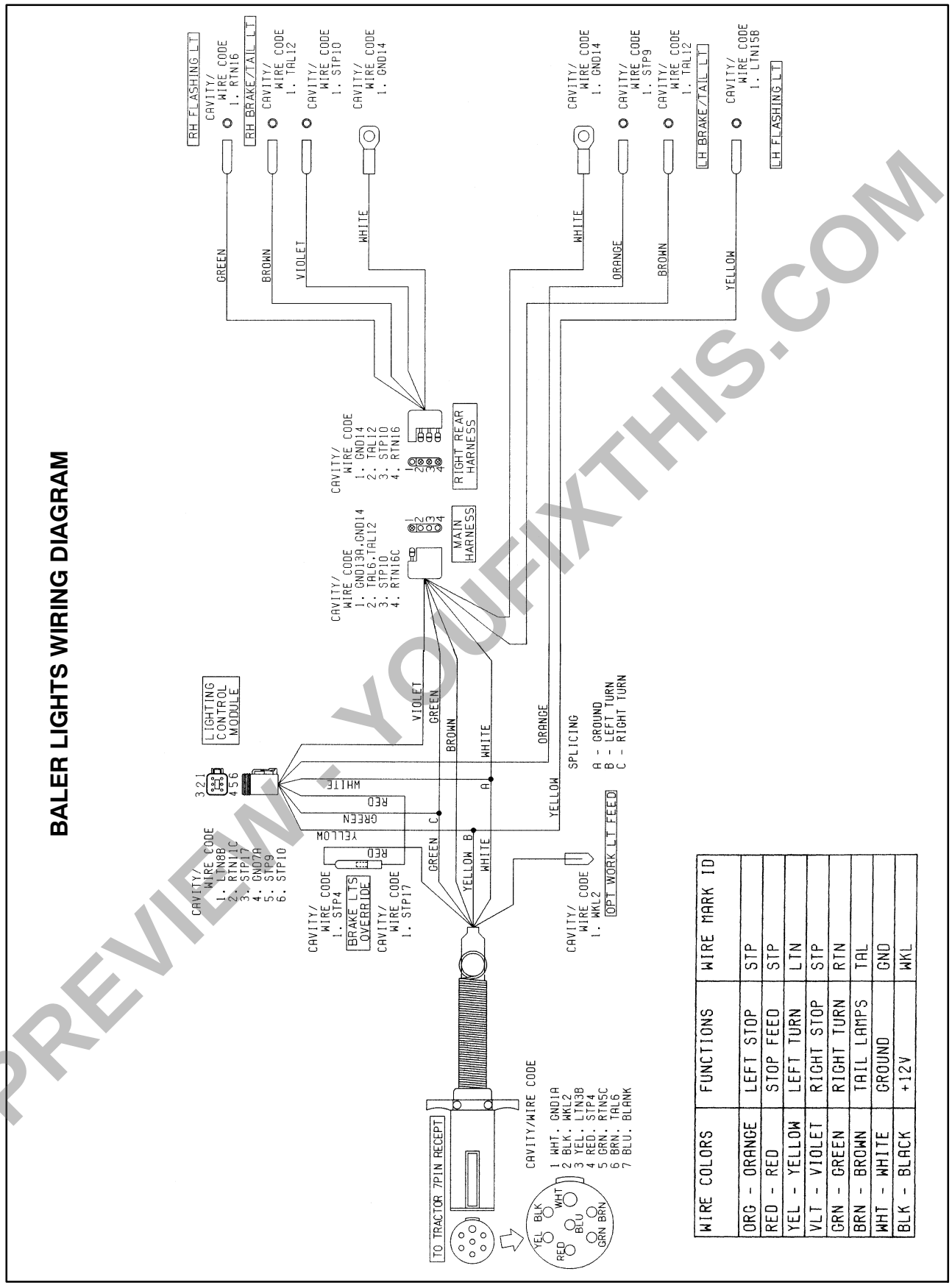


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BALER LIGHTS WIRING DIAGRAM



WIRE COLORS	FUNCTIONS	WIRE MARK ID
ORG - ORANGE	LEFT STOP	STP
RED - RED	STOP FEED	STP
YEL - YELLOW	LEFT TURN	LTN
VLT - VIOLET	RIGHT STOP	STP
GRN - GREEN	RIGHT TURN	RTN
BRN - BROWN	TAIL LAMPS	TAL
WHT - WHITE	GROUND	GND
BLK - BLACK	+12V	WKL

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	CORRECTION
Internal leakage.	Worn or damaged seals.	Replace.
	Piston nut not tight.	Torque to specification.
External leakage.	Worn or damaged seals.	Replace.
	Internal leakage in a single- acting cylinder.	See internal leakage.
Tailgate opens slowly.	Restriction in line.	Remove restriction.
	Lockout valve incorrectly adjusted.	Readjust so spool has full travel.
	Orifice installed wrong.	Install with slot facing away from tractor.
	Incorrect orifice.	Install 0.104″ orifice.
	Low flow or pressure.	Repair tractor hydraulic system.
Tailgate closes fast.	No orifice in line.	Install orifice.
	Orifice installed wrong.	Install with slot facing away from tractor.
Tailgate drifts open.	Internal leak in cylinder.	See internal leakage.
	Tractor remote not sealing.	Repair tractor.
	Tailgate not latched.	Check latch is locked before baling.

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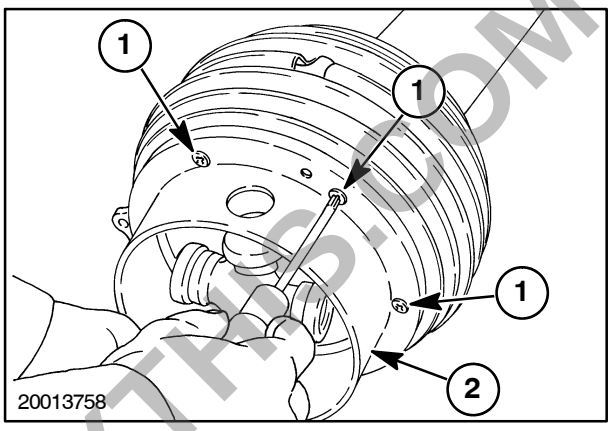
OVERHAUL

FRONT PTO AND CV U-JOINT

Disassembly

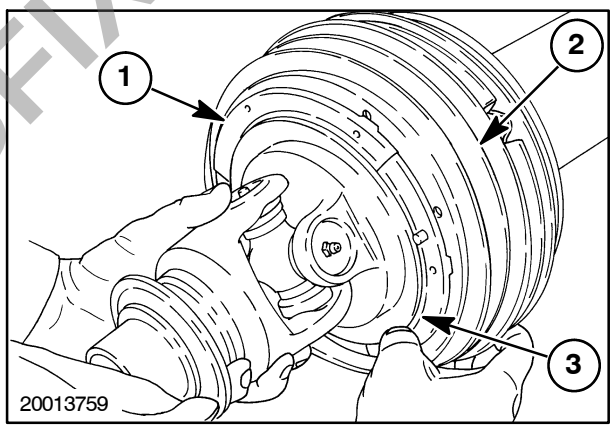
The front of the PTO assembly includes an 80° constant velocity joint.

1. Remove the Philips head screws, 1, and the rigid shield, 2.



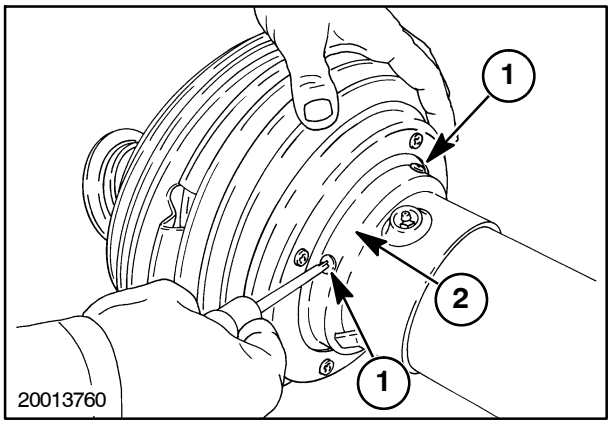
2

2. Extract the bearing ring, 1, from the CV shield, 2. The two notches, 3, in the CV shield facilitate removal of the ring. Remove the bearing ring from the CV body.



3

3. Remove the Philips head screws, 1, from the base cone, 2.



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Lubricant	Type and Description	Part Number	Container Size
Engine Oil	AMBRA SUPER GOLD SSL ENGINE OIL SAE 10W-40	86994335	2.5 G / 9.46 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 10W	86641050	5 G / 18.93 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 10W-30	9613313	1 QT / .946 L
		86641052	1 G / 3.785 L
		9613314	2.5 G / 9.46 L
		9673508DS	5 G / 18.93 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 30	9613286	1 QT / .946 L
		86641043	1 G / 3.785 L
		9613289	2.5 G / 9.46 L
		86641044	5 G / 18.93 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 40	9624812DS	55 G / 208.2 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 15W-40	86641081	1 QT / .946 L
		86641082	1 G / 3.785 L
		86641084	2.5 G / 9.46 L
		86641083	5 G / 18.93 L
	AMBRA SUPER GOLD HSP ENGINE OIL SAE 20W-50	86994337	5 G / 18.93 L
	AMBRA AUTO SUPREME SAE 5W-30	9673589DS	1 QT / .946 L
	AMBRA AUTO SUPREME SAE 10W-30	86641101	1 QT / .946 L
Transmission Oil	AMBRA MULTI TRAN	86639558	1 G / 3.785 L
		86639559	2.5 G / 9.46 L
		86639560	5 G / 18.93 L
	AMBRA MULTI TRAN SSL	86994339	2.5 G / 9.46 L
	AMBRA MULTI BIO S	86994341	2.5 G / 9.46 L
Hydraulic Oil	AMBRA MULTI G 134	9624655DS	1 QT / .946 L
		9624656DS	1 G / 3.785 L
		9624450	2.5 G / 9.46 L
		9624451	5 G / 18.93 L
	AMBRA HYDROSYSTEM 46 HYD FLUID	86109085	5 G / 18.93 L
	AMBRA HYDROSYSTEM 68 HYD FLUID	86994331	5 G / 18.93 L
	AMBRA HYDROSYSTEM 100 HYD FLUID	86994343	5 G / 18.93 L
ATF Oil	AMBRA HYDRODEX 3 ATF	9613304	1 QT / .946 L
		9613312	2.5 G / 9.46 L
Gear Oil	AMBRA HYPOIDE 90 GEAR LUBE	9613295	1 QT / .946 L
		9613294	2.5 G / 9.46 L
		86994348	16 G / 60.6 L
	AMBRA HYPOIDE 140 GEAR LUBE	87027134	1 QT / .946 L
		87027135	2.5 G / 9.46 L
		86994351	16 G / 60.6 L
	AMBRA TRANSAXLE FLUID	86994352	5 G / 18.93 L
	AMBRA HYPOIDE SSL GEAR LUBE	86994354	1 QT / .946 L
Grease	AMBRA GR-9 MULTI-PURPOSE GREASE	9613310	TUBE - 14 OZ.
	AMBRA HI-TEMP GREASE	9861804DS	TUBE - 14 OZ.
	AMBRA CORN HEAD GREASE	94107DS	TUBE - 14 OZ.
	AMBRA GR 75 MD GREASE	87400001	TUBE - 14 OZ.
	AMBRA GR 1000 SYNTHETIC GREASE	86994355	TUBE - 14 OZ.
	LIMITED SLIP ADDITIVE	B96606	
Brake Fluid	BRAKE LHM FLUID (Mineral Based Oil)	86541699DS	1 QT / .946 L
Coolant	ESE-M97B18-D, Ethylene Glycol Coolant Concentrate	FGCC2701DS	1 G / 3.785 L
	Propylene Glycol Concentrate	FGCC2711DS	1 G / 3.785 L

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SECTION 31 - IMPLEMENT DRIVELINE

Chapter 1 - PTO Driveline

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SECTION 31 - IMPLEMENT DRIVELINE

Chapter 2 - Gearbox

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