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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.*

ASAE S441.3 FEB04
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MINIMUM HARDWARE TIGHTENING TORQUES

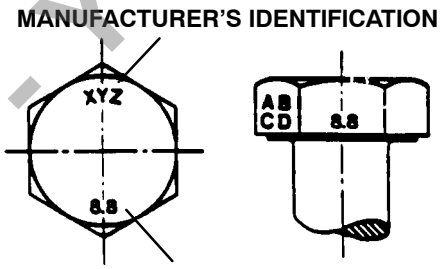
IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

METRIC NON-FLANGED HARDWARE AND LOCKNUTS

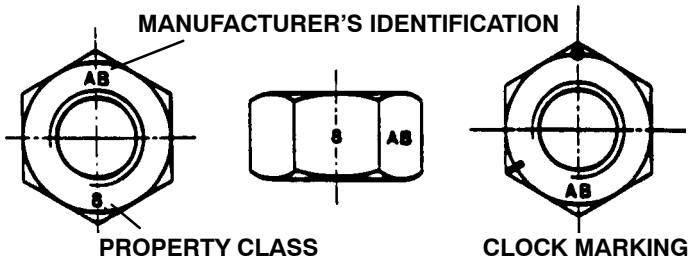
NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	1.7 (15)*	2.2 (19)*	2.6 (23)*	3.4 (30)*	3.7 (33)*	4.8 (42)*	2.3 (20)*
M6	5.8 (51)*	7.6 (67)*	8.9 (79)*	12 (102)*	13 (115)*	17 (150)*	7.8 (69)*
M8	14 (124)*	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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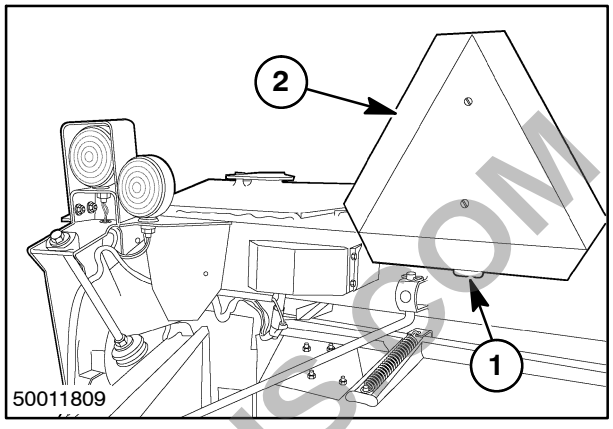
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TRANSPORTING THE MOWER-CONDITIONER

SLOW-MOVING VEHICLE EMBLEM

Some states and provinces require Slow-Moving Vehicle (SMV) emblems on machines traveling at speeds under 40 km/hr (25 MPH). Consult local regulations for information and mounting requirements.

A SMV mounting bracket, 1, is located on the left rear frame. The SMV emblem, 2, and mounting bracket are furnished as standard equipment on the mower-conditioner. Attach the emblem as shown.



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TRANSPORTING ON HIGHWAYS

Do not tow equipment that does not have brakes:

- At speeds over 32 km/hr (20 MPH) or
- That when fully loaded, weighs more than 1.5 t (3300 lbs) and more than 1.5 times the weight of the towing unit.

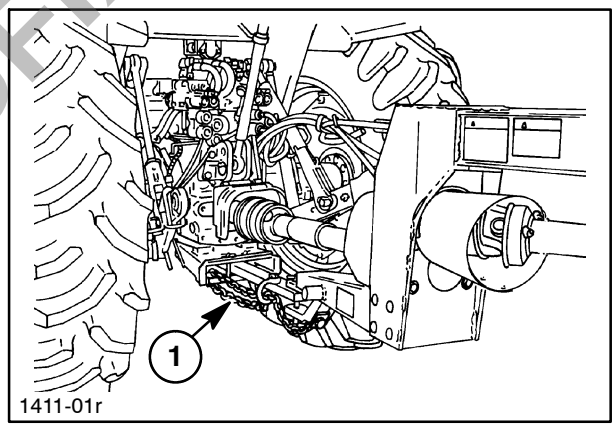
SAFETY CHAIN

The optional safety chain, 1, shown should be used when towing the mower-conditioner on a public road. The safety chain is intended to keep the machine under control in the event of loss or failure of the hitch pin.

When the chain is attached to the tractor it should be supported midway between the machine and tractor. A clevis should be installed on the drawbar to support the chain.

⚠ WARNING ⚠

You must always hook up the safety chain to the tractor when towing this machine. Failure to comply will result in death or serious injury.



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SPECIFICATIONS

Overall Width	
Transport position	3429 mm (11 ft 3 in)
Field position	4877 mm (16 ft 0 in)
Overall Length	
Transport position	5131 mm (16 ft 10 in)
Field position	4750 mm (15 ft 7 in)
Height	
Transport position	1600 mm (5 ft 3 in)
Cutting position	1346 mm (4 ft 5 in)
Ground Clearance (transport)	457 mm (18 in)
Wheel Tread Width	2643 mm (8 ft 8 in)
Weight	1864 kg (4100 lb)
Driveline	
Tractor Requirement	60 kw (80 HP) Minimum with two remote circuits with minimum of 1043 kPa (1500 PSI) relief pressure
Input Speed	540 or 1000 RPM
Drive Protection	Main driveline - slip clutch with overrunning clutch, conditioner roll drive - V-belt with spring loaded idler
Header	
Cutting Width	3160 mm (10 ft 4 in)
Flotation	Vertical and radial
Windrow Width	914 – 2134 mm (36 – 84 in)
Header Lift	Hydraulic (master-slave system)
Cutter Bar	
Type	Modular
No. of Discs	8
Knives Per Discs	2
Disc Cutting Diameter	500 mm (19.7 in)
Disc Drive	Bevel gears in sealed modules
Disc Speed	3000 RPM
Cutting Height	32 – 76 mm (1.25 – 3 in)
Cutter Bar Angle	–2 degree to –10 degrees
Conditioner	
Type	Intermeshing rolls
Drive	4HB v-belt and spur gears

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TROUBLESHOOTING

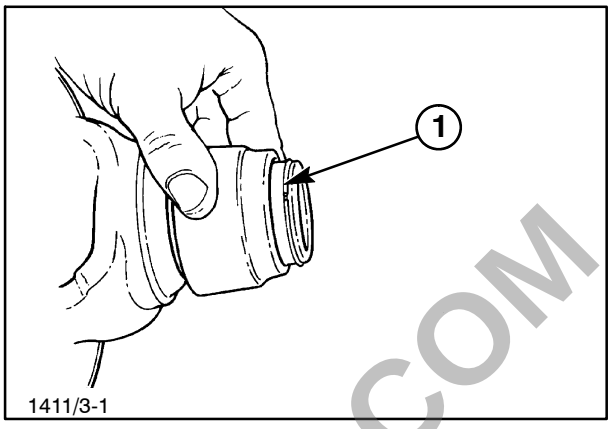
PROBLEM	POSSIBLE CAUSE	CORRECTION
Leaves damaged or stripped off stems.	Too much pressure on the rolls.	Reduce the pressure until the leaves are not damaged.
Leaving ragged or long stubble.	Ground speed too fast.	Reduce the ground speed.
	Dull, bent, or broken knives.	Turn over or replace the knives.
	Knives installed on wrong discs.	Install knives on correct discs.
	PTO speed too slow.	Maintain RPM on the tractor PTO. (Do not overspeed.)
	Cutting too high.	Remove high stubble kit, if installed. Increase header tilt.
	Header flotation too light.	Adjust flotation springs to increase header flotation weight.
	Wheel arm linkage binding	Remove, clean, and lubricate wheel arm pin.
Excessive breakage of the knives.	Cutting too low in stony conditions.	Raise the cutting height with header tilt. Install high stubble kit.
	Header flotation too heavy for stony fields.	Adjust the flotation springs to float the header with 45 kg (100 lbs.) force, per side.
	Ground speed too high in stony conditions.	Reduce ground speed.
Not cutting short enough in down material.	Ground speed too fast.	Reduce ground speed.
	Broken, bent, or dull knives.	Replace the knives or turn over the knives.
	Cutting height too high.	Lower the cutting height by tilting the header.
	Tractor PTO speed too slow.	Maintain tractor PTO RPM. (Do not overspeed.)
Strip of run-down, uncut material.	Ground speed too fast.	Use slower ground speed.
	Crowding of the uncut material.	Do not crowd the uncut material.
	Missing or dull knives.	Replace or turn over the knives.
	Material buildup on cutter bar.	Clean off cutter bar. Tilt cutter bar back towards horizontal to reduce material buildup.
	PTO speed too high.	Slowing PTO speed will reduce air flow from the cutter bar.

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Slide Lock – Disassembly

1. Pull back the collar to expose the retaining ring, 1. Use a screwdriver or spring pick to remove the retaining ring from the barrel.

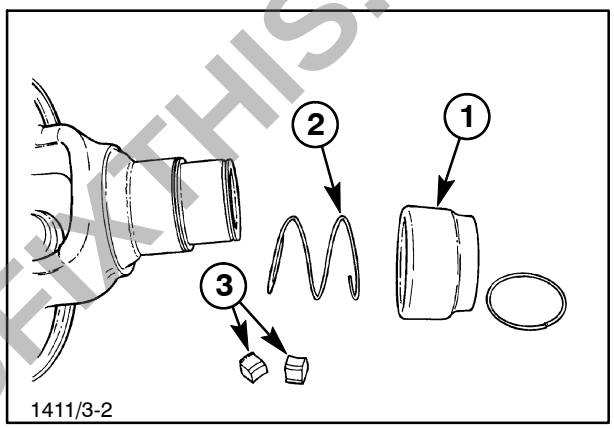


3

2. Slide the collar, 1, off of the yoke, and remove the spring, 2.

NOTE: *The spring is an interference fit, and will have to be worked off the yoke.*

3. Remove the pawls, 3, by reaching into the yoke bore and pushing the pawls outwards, so that they can be grabbed and removed.
4. Clean the bore and pawl holes. Replace the yoke if damage or excessive wear is found.



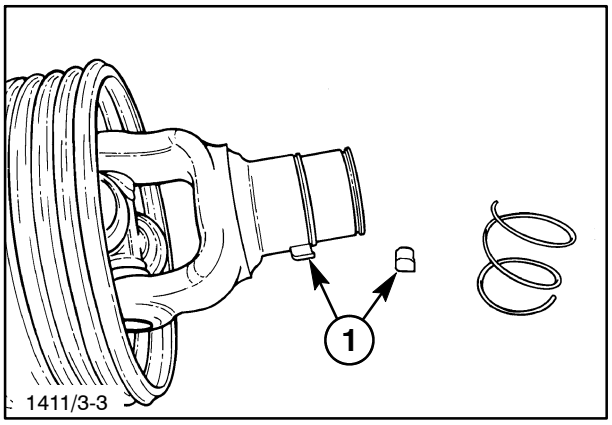
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Slide Lock – Assembly

1. Push new spring over barrel up to shoulder.

NOTE: *One end of spring has a smaller diameter than the other. Be sure small diameter of spring is up against shoulder on yoke.*

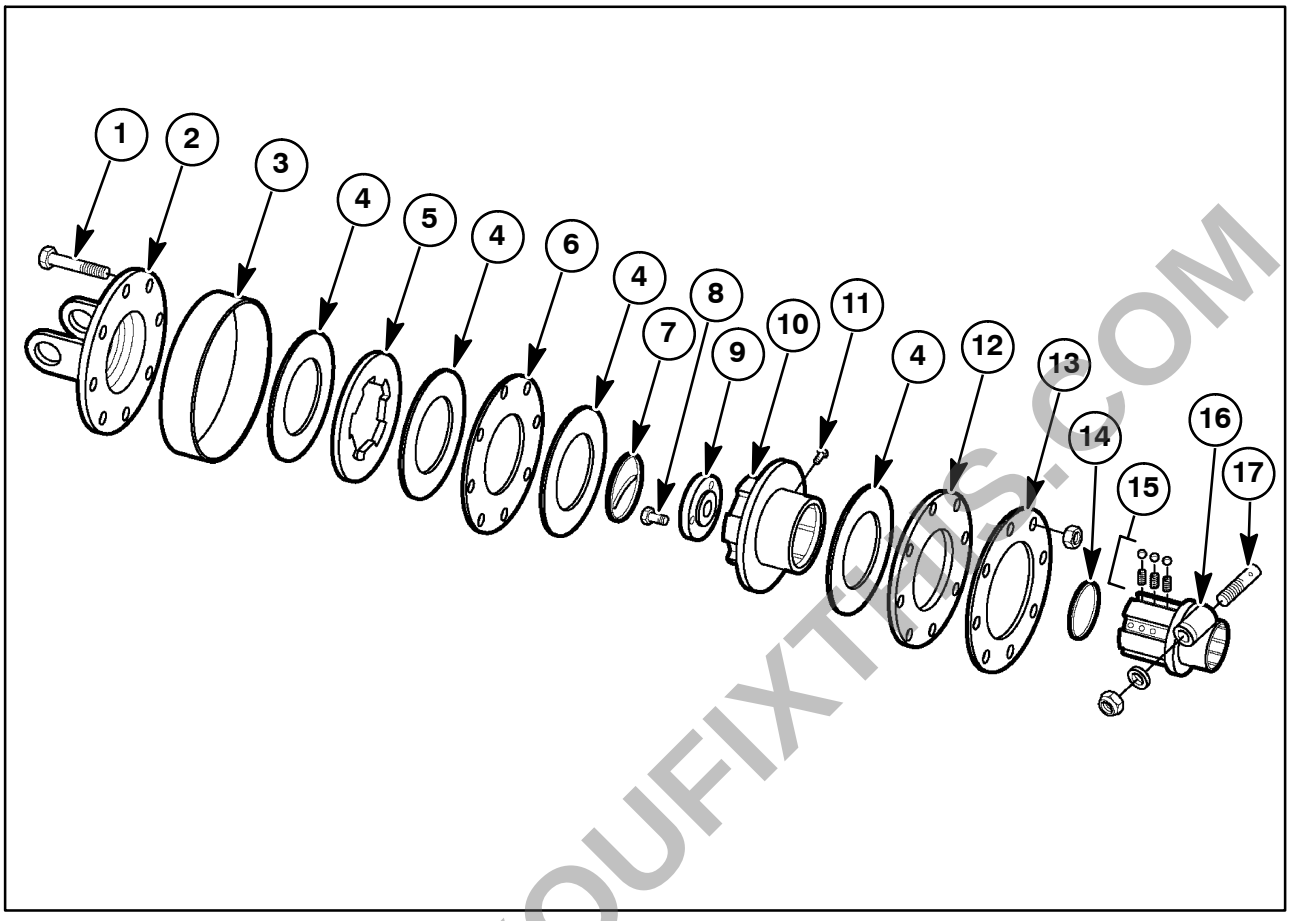
2. Insert pawls, 1, into square holes, positioning them so that the lip on the pawl faces into the groove in barrel. Pawls must slide freely up and down, and must be flush with the top of the barrel.



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Exploded view of the Slip with Overrunning Clutch Assembly.

1. Bolt
2. Flange Yoke
3. Adjustment Band
4. Friction Lining
5. Driving Plate
6. Inner Plate
7. Locking Plate
8. Allen Bolt
9. Overrunning Clutch Plug
10. Overrunning Clutch Housing
11. Grease Fitting
12. Pressure Plate
13. Belleville Spring
14. Snap Ring
15. Key and Spring Kit
16. Hub
17. Tapered Pin

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SECTION 31 – IMPLEMENT POWER TAKE-OFF (PTO)

Chapter 1 – PTO

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⚠ WARNING ⚠

Fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Always protect the skin and eyes from escaping fluid under pressure.

Before disconnecting lines or fittings, be sure to release all pressure by operating the tractor control valves. Before applying pressure to the system, be sure all connections are tight and that hoses and connections are not damaged.

⚠ WARNING ⚠

When checking for oil leaks use a piece of cardboard; DO NOT use your hand:

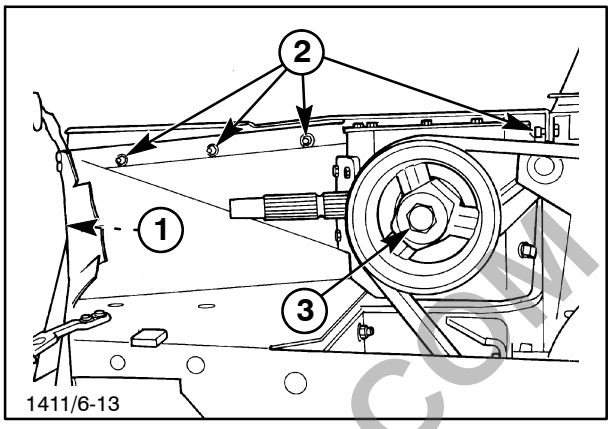
- **Escaping fluid under pressure can penetrate the skin causing serious injury.**
- **Avoid the hazard by relieving pressure before disconnecting hydraulic of other lines.**
- **Tighten all line connections before applying pressure.**
- **Check for leaks with a piece of cardboard.**
- **Protect hands and body from high-pressure fluids.**

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

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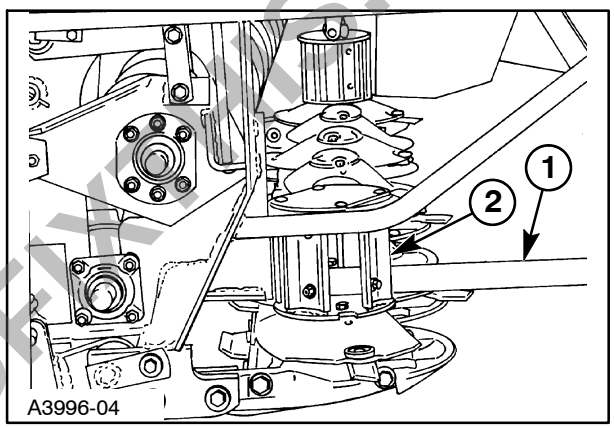
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6. Remove the upper shielding by removing four carriage bolts, flat washers and flange nuts at 1 and four carriage bolts, flat washers and flange nuts at 2. It may be necessary to loosen two or three bolts between the lower shield and header frame if shield is sandwiched between these components.
7. If the conditioner drive shaft assembly, 3, requires repair, it should be partially disassembled before the bevel gearbox is removed from the machine as the sheave retaining bolt may be removed easier.



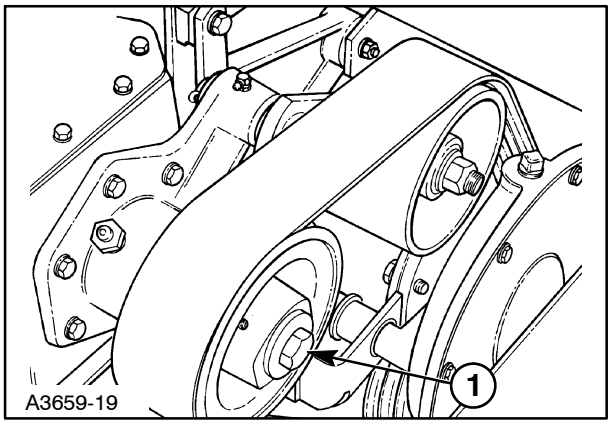
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8. Block the cutter bar discs in place with a bar, 1, through the right hand tower, 2.



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9. Remove the cap screw, 1, and flat washer from the end of the conditioner roll drive sheave.



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