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Safety rules Precautionary Statements (- A.50.A.10)

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. M1169

⚠ 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. M1170

⚠ 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 . M1171

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 they need to know to prevent minor machine damage if a certain procedure is not followed.*

Information

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

LEGAL OBLIGATIONS

Your machine may be equipped with special guarding or other devices in compliance with local legislation. Some of these require active use by the operator.

Therefore, check local legislation on the usage of this machine.

SAFETY REQUIREMENTS FOR FLUID POWER SYSTEMS AND COMPONENTS - HYDRAULICS (EUROPEAN STANDARD PR EM 982)

Flexible hose assemblies must not be constructed from hoses which have been previously used as part of a hose assembly.
Do not weld hydraulic piping.
When flexible hoses or piping are damaged, replace them immediately.
It is forbidden to modify a hydraulic accumulator by machining, welding or any other means.
Before removing hydraulic accumulators for servicing, the liquid pressure in the accumulators must be reduced to zero.

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Torque Specification Tables (- A.90.A.10)

Standard Bolt Hardware & Hydraulic O Ring Face Seal (ORFS) Connector Torques, Specifications and Information

This specification establishes general torque values to be used in bolted joints for metric and inch hardware. This specification is assumed to apply unless another specification (standard or specified requirement) is indicated in the repair manual.

NOTE: These Standards do not include electrical or hydraulic components, they are referred to in their specific charts or tables.

INCH 'NON-FLANGED' HARDWARE AND LOCKNUTS {MINIMUM HARDWARE TIGHTENING TORQUES}

IN NEWTON-METERS (FOOT-POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS								
	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	6.2 (55)*	8.1 (72)*	9.7 (86)*	13 (112)*	14 (121)*	18 (157)*	8.5 (75)*	12.2 (109)*
5/16	13 (115)*	17 (149)*	20 (178)*	26 (229)*	28 (250)*	37 (324)*	17.5 (155)*	25 (220)*
3/8	23 (17)*	30 (22)*	35 (26)*	46 (34)*	50 (37)*	65 (48)*	31 (23)*	44 (33)*
7/16	37 (27)*	47 (35)*	57 (42)*	73 (54)*	80 (59)*	104 (77)*	50 (37)*	71 (53)*
1/2	57 (42)*	73 (54)*	87 (64)*	113 (83)*	123 (91)*	159 (117)*	76 (56)*	108 (80)*
9/16	81 (60)*	104 (77)*	125 (92)*	163 (120)*	176 (130)*	229 (169)*	111 (82)*	156 (115)*
5/8	112 (83)*	145 (107)*	174 (128)*	224 (165)*	244 (180)*	316 (233)*	153 (113)*	215 (159)*
3/4	198 (146)*	256 (189)*	306 (226)*	397 (293)*	432 (319)*	560 (413)*	271 (200)*	383 (282)*
7/8	193 (142)*	248 (183)*	495 (365)*	641 (473)*	698 (515)*	904 (667)*	437 (323)*	617 (455)*
1	289 (213)*	373 (275)*	742 (547)*	960 (708)*	1048 (773)*	1356 (1000)*	654 (483)*	924 (681)*

NOTE: Torque values shown with * are inch pounds.

IMPORTANT: *Values shown on these charts are minimum hardware tightening torques unless otherwise stated.*

METRIC 'NON-FLANGED' HARDWARE AND LOCKNUTS {MINIMUM HARDWARE TIGHTENING TORQUES}

IN NEWTON-METERS (FOOT-POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS							
	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCK-NUTS
Nominal Size	Unplated	Plated w/ZnCr	Unplated	Plated w/ZnCr	Unplated	Plated w/ZnCr	Cl.8 w/Cl8.8 Bolt
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.

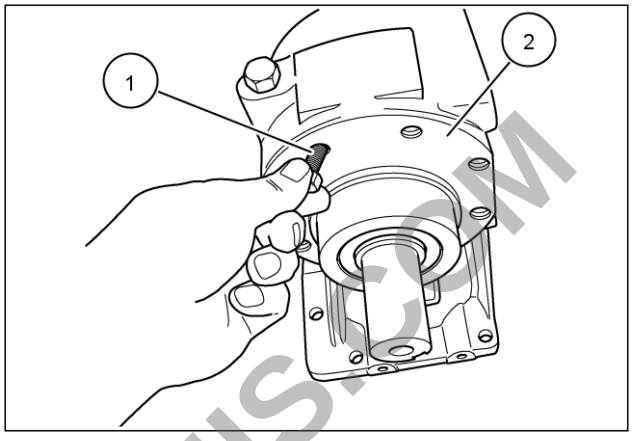
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Gearbox - Disassemble (C.50.B.44 - F.10.A.25)

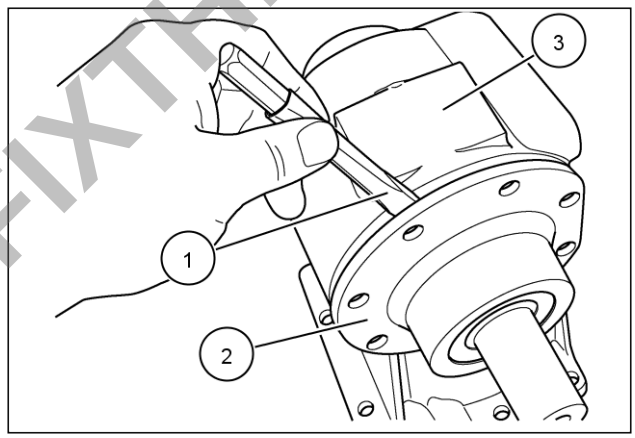
Prior operation: Remove the dipstick and turn the gearbox over to drain the oil before disassembly of the gearbox if it was not done prior. **Gearbox - Drain fluid (C.50.B.44 - F.35.A.20)** - **Gearbox - Remove (C.50.B.44 - F.10.A.10)**

1. Remove the eight M10 x 22 mm bolts, **(1)** , from the input shaft cover, **(2)** .



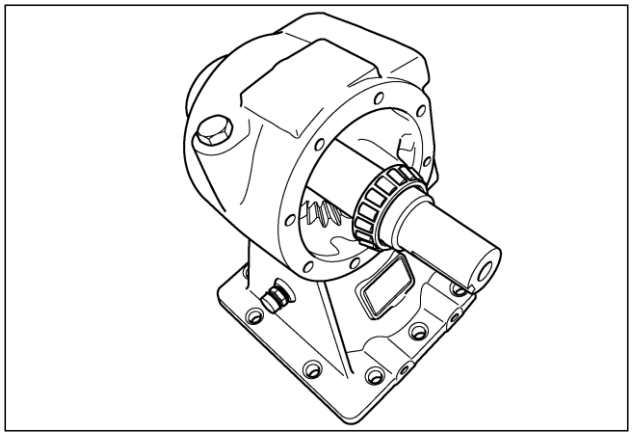
10053145 1

2. Use a flat chisel, **(1)** , to carefully separate the sealed cover, **(2)** , from the gearbox, **(3)** .



10053148 2

3. Remove the cover.



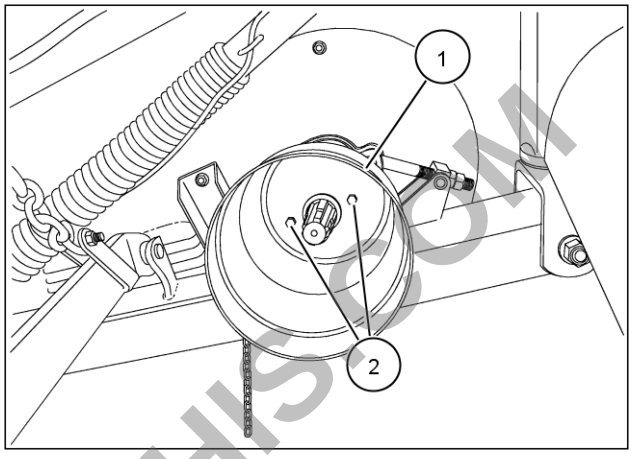
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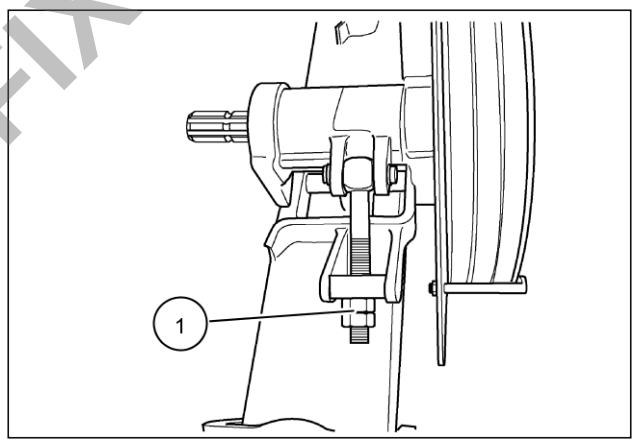
Intermediate shaft - Remove Shaft/Bearing Assembly (C.50.B.43 - F.10.A.10)

1. **Drive system PTO shaft - Remove (B.90.A.42.15 - F.10.A.10)**
2. Remove the PTO shaft protective shield **(1)** from the disc mower by removing the two cap screws and flat washers **(2)**.



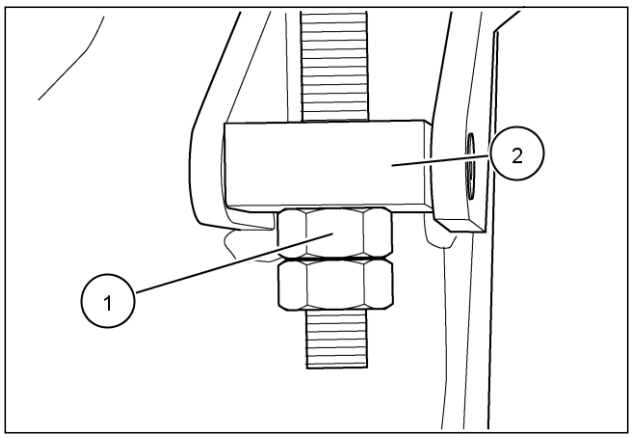
60054716 1

3. **Protective shield Guard - Remove (E.20.A.73.71 - F.10.A.10)**
4. Behind the large drive pulley, break loose the two jam nuts **(1)**.



60054719 2

5. Turn the nut **(1)** closest to the adjustment block **(2)** counterclockwise until the drive belts are loose enough to be removed from the two drive pulleys.



10053659 3

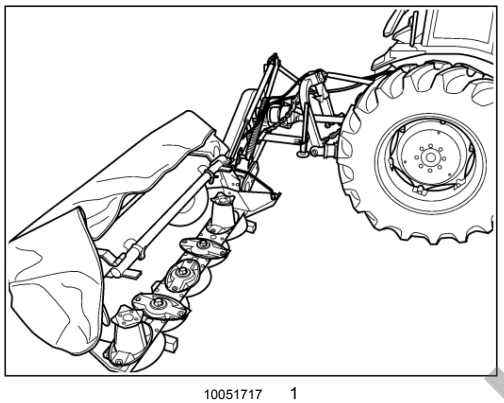
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Gearbox - Drain fluid (C.50.B.44 - F.35.A.20)

To change the oil as stated in the following steps, the disc mower unit must be attached to a tractor as it would be for normal operation.

IMPORTANT: *In order to avoid sludge deposits, it is recommended that the oil should be changed while it is still warm after stopping the gearbox. Be sure to follow the proper safety precautions while doing so.*

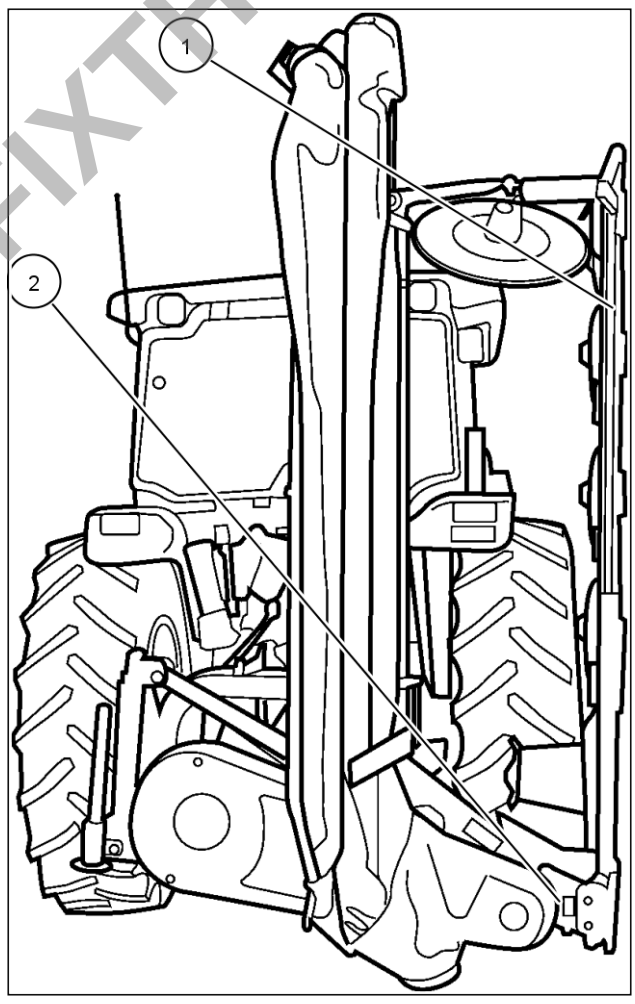


10051717 1

1. Raise the cutter bar **(1)** to the transport/vertical position so the drain plug **(2)** is on the bottom of the disc mower. Be sure to engage the safety latch while the cutter bar is in the transport position to prevent bodily injury or harm.

⚠ DANGER ⚠

Hot oil and/or components can burn. Oil must be at operating temperature when draining. Avoid contact with oil or components. M623



10053646 2

2. Place a suitable sized catch container under the drain/fill plug.

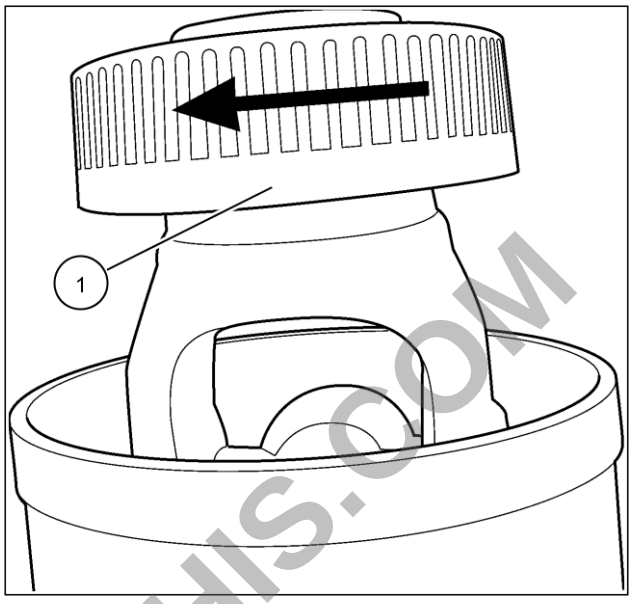
NOTE: *Gear box oil quantity is approximately* ***700 mL*** *(****23.5 US fl oz****) .*

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Remove PTO from Disc Mower

9. To remove PTO from disc mower, turn twist collar **(1)** counterclockwise to release ball detent.

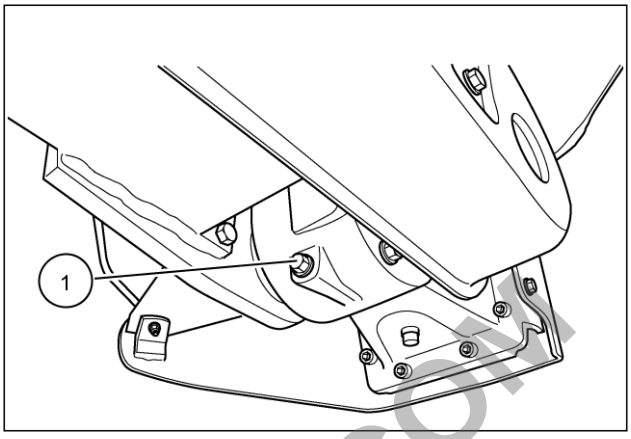


10053626 8

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3. Using a wrench, remove the drain/fill plug **(1)** .



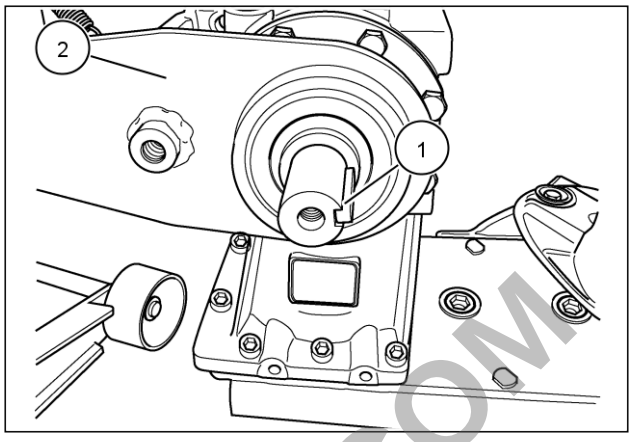
10053653 3

Next operation: Gearbox - Filling (C.50.B.44 - F.60.A.10)

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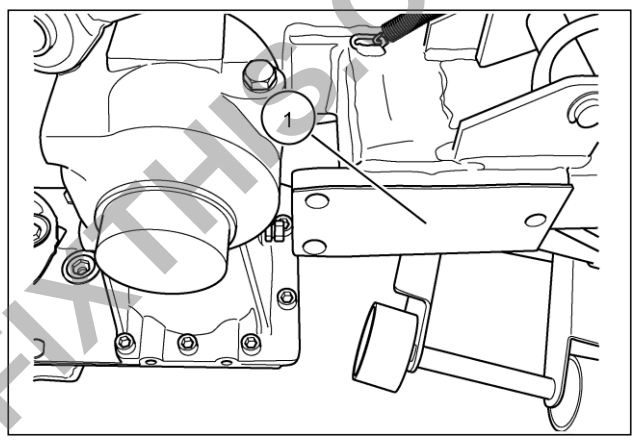
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4. Install the gearbox input shaft, **(1)**, into the rear support arm, **(2)**, first.



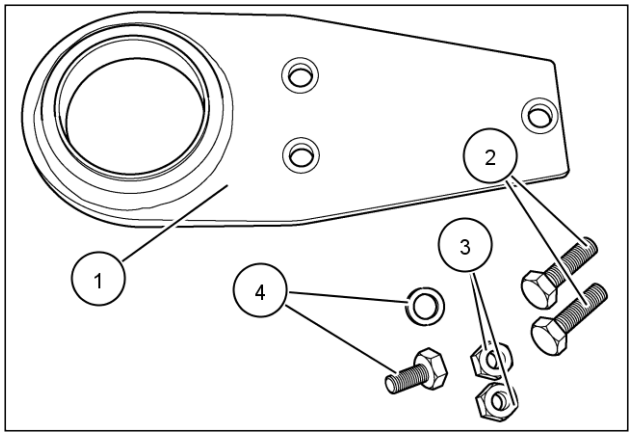
10053137 4

5. Install the spacer, **(1)**, behind the front box support plate.



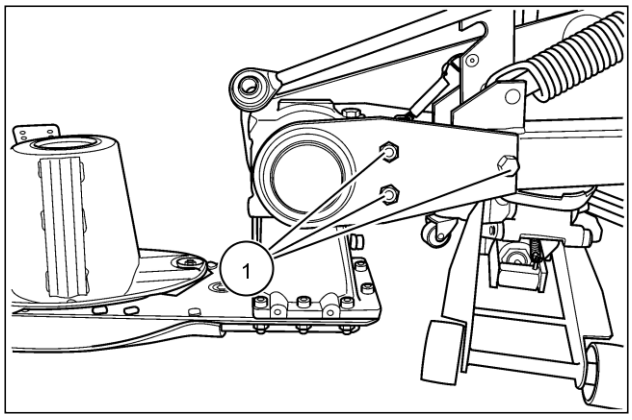
10053132 5

6. Install the front box support plate, **(1)**, using two M14 x 60mm cap screw hex head cap screws, **(2)**, and two M14 lock nuts, **(3)**, on the left side of the support plate and one M14 x 60 mm cap screw and lock washer, **(4)**, on the right side.



10053130 6

7. Torque the hardware, **(1)** .



10053127 7

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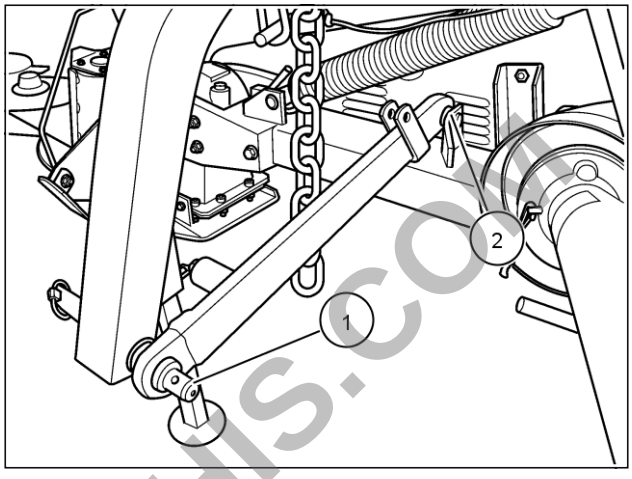
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Boom break-away - Install (E.10.C.64 - F.10.A.15)

HM234, HM235

HM234/HM235

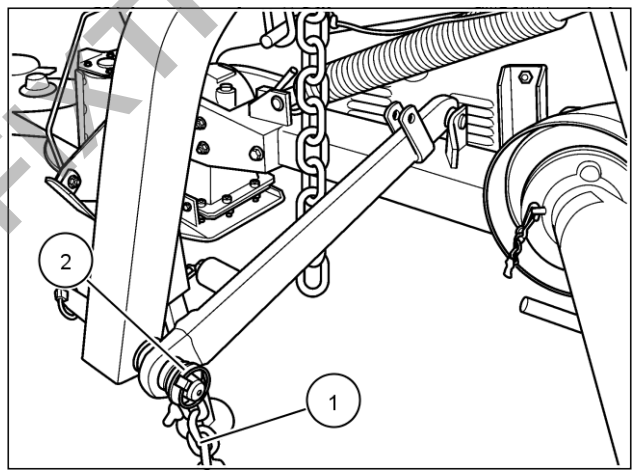
1. Reinstall the safety breakaway assembly to the disc mower by sliding the front ball joint over the mounting pin **(1)** and securing the rear ball joint with pin and clip **(2)**.



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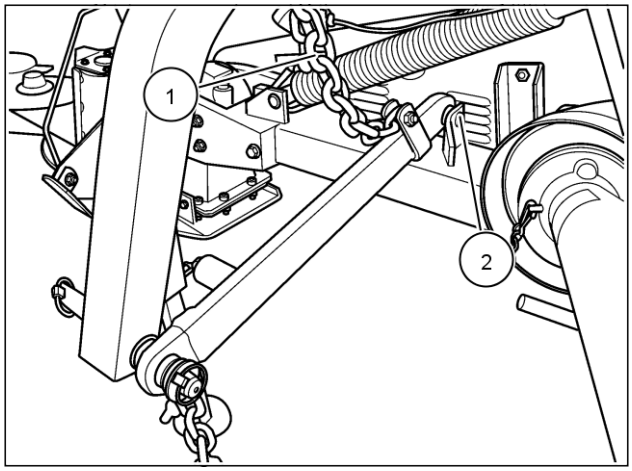
2. Reinstall the chain **(1)** to the pin securing it with the flat washer and linch pin **(2)**.

IMPORTANT: *The flat washer must be between the chain and the linch pin to prevent the chain from coming of the pin.*



10054759 2

3. Reinstall the chain **(1)** to the safety breakaway assembly securing it with the cap screw and lock nut **(2)**.



10054757 3

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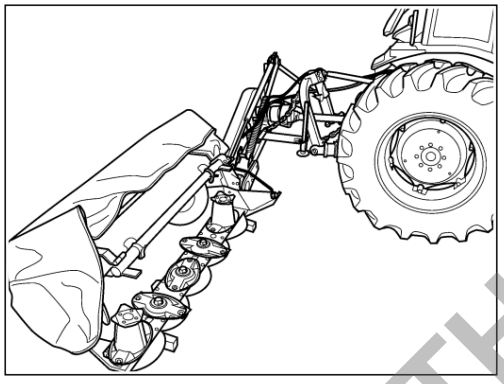
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Drive system - Remove Cutter Bar (K.10.E.40 - F.10.A.10)

To remove the cutter bar from the unit it is recommended that the unit be connected to the tractor.

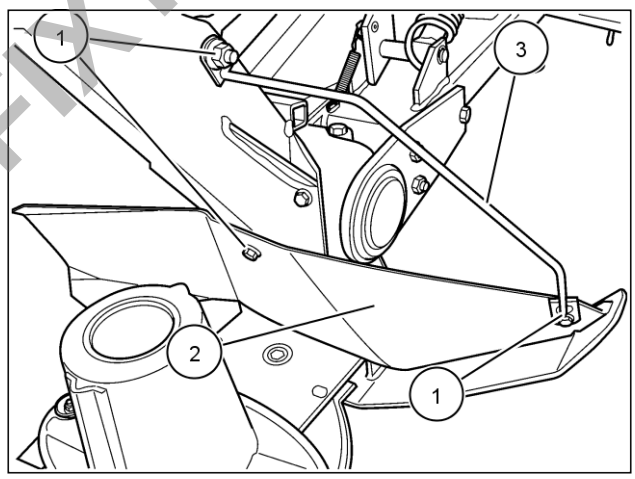
⚠ CAUTION ⚠

Before you do service under the machine, put the machine on a level surface, engage the parking brake and stop the engine. Put blocks at the front and rear of the tires. Failure to follow these instructions can cause injury. 46-77A



10051717 1

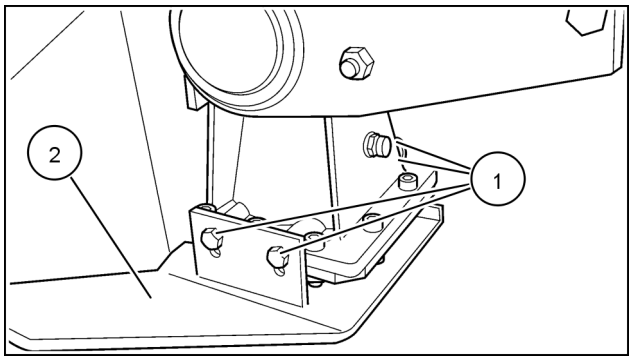
1. Remove the hardware, **(1)** , attaching the plate deflector arm, **(3)** , and plate deflector shield, **(2)** .



10053116 2

2. Remove the four cap screws, **(1)** , attaching the skid shoe, **(2)** , to the gearbox.

NOTE: *Be careful not to lose the spacers from the rear of the skid shoe.*



10053114 3

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