SERVICE MANUAL

MegaCutter™ 512
MegaCutter™ 530

Tractor Mounted

Disc Mower-Conditioner

PIN YFZDG0007 and above

Part number 47937741
1st edition English
February 2016

MidWestTech | New Holland MegaCutter 512, 530 Tractor Mounted Disc Mower Conditioner Service Manual | Publication 47937741

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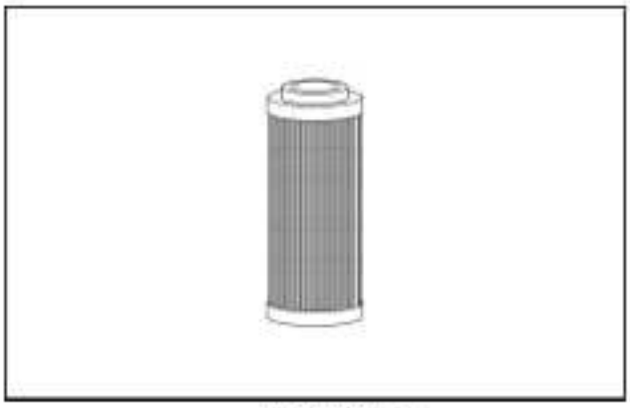
Clutches - Troubleshooting

Problem	Possible Cause	Correction
The slip clutch on the Power Take-Off (PTO) shaft becomes abnormally warm.	The speed of the PTO shaft is too slow.	Check that the rotational speed of the tractor PTO output shaft is **1000 RPM**.
	The friction discs in the clutch are worn.	Replace the friction discs in the clutch.
The length of the Power Take-Off (PTO) shaft is difficult to adjust between the tractor and the machine.	The PTO shaft profile tube is dirty.	Disassemble the PTO shaft. Clean, lubricate, and reassemble the PTO shaft.

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Oil filters - Technical Data

OD	**45 mm (1.77 in)**
ID	**25 mm (1 in)**
Length	**109 mm (4.31 in)**
Filtration	**23 µm** (Micron)
Bypass setting	None

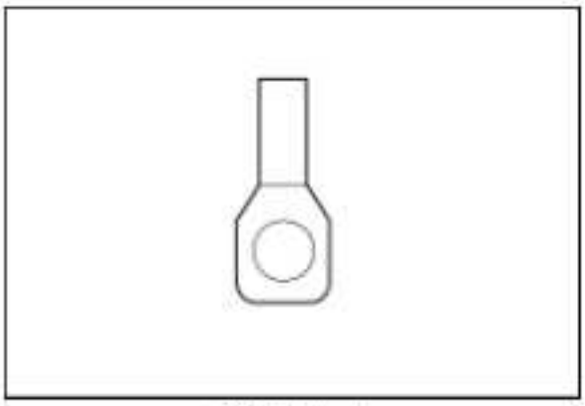


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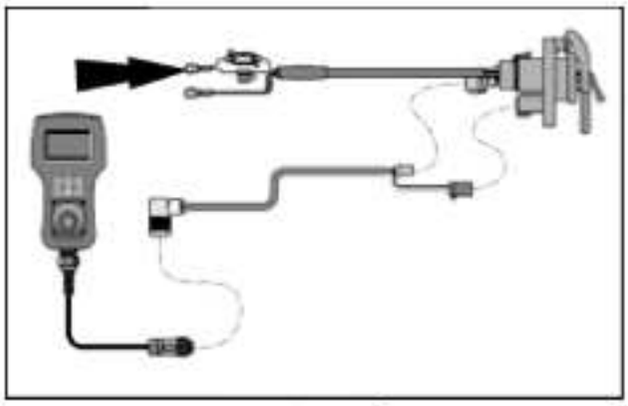
Wire connectors - Component diagram 04 – Connectors X-7040 to X-7049

X-7040 - Adapter harness (Non-ISOBUS) Battery + (positive) connector



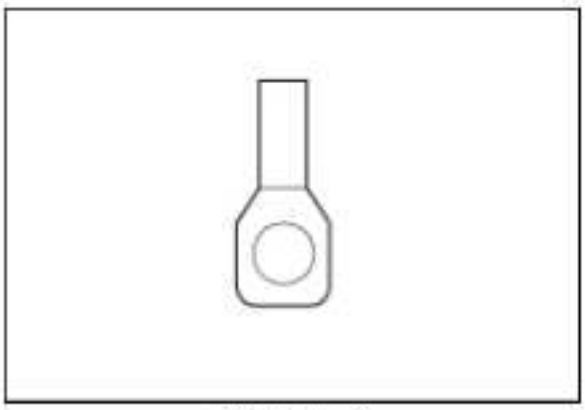
RING_TERMINAL 1

Pin	From	Wire	Description	Color-Size	Frame
1	**X-7042 pin 1**	CP-7000	Vehicle power source **12 V**	RD - 2.0	**SHEET 04**
1	**X-7043 pin 1**	CP-7001	Vehicle power source **12 V**	RD - 5.0	



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X-7041 - Adapter harness (Non-ISOBUS) Battery – (negative) connector



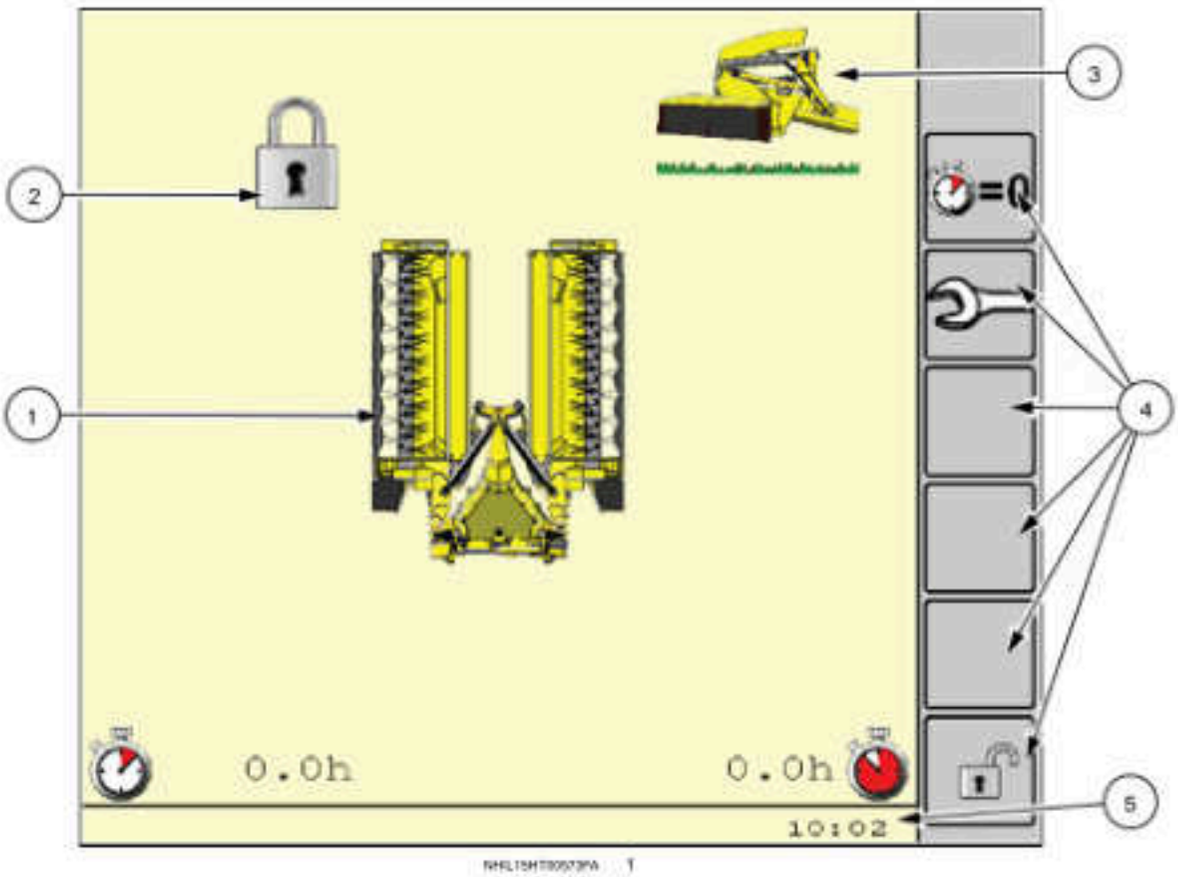
RING_TERMINAL 3

Pin	From	Wire	Description	Color-Size	Frame
1	X–70451 & 2 and X–7046/3	CP-7003	Ground	BK - 5.0	**SHEET 04**
	Splice SP109	CP-7004	Ground	BK - 2.0	

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Electrical system - Control identification – ISOBUS – Controls overview

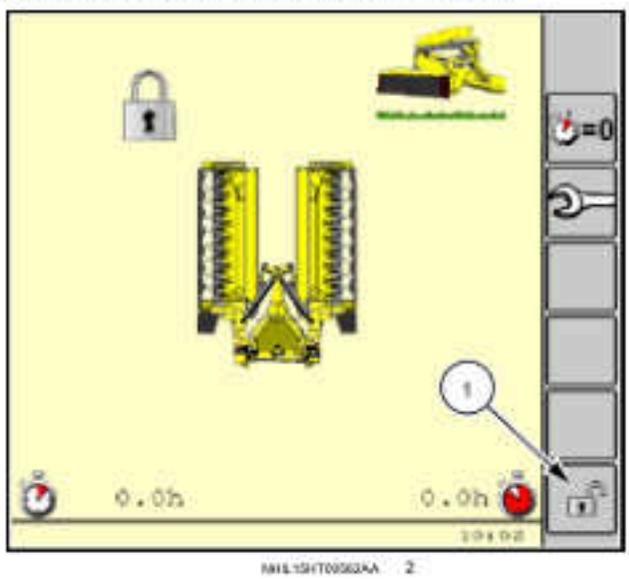
Locked mode



(1) Rear cutting unit status
(2) Locked / unlocked status
(3) Front cutting unit status*
(4) Function keys
(5) Current time

NOTE: ** – Optional and only visible if the machine is equipped with the front cutting unit lift control kit.*

To unlock the machine for operation, press the "unlock" function key **(1)**.



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Disc cutterbar - Inspect

⚠WARNING

Avoid injury!
Shut off the engine, remove the key, and make sure all motion is stopped before servicing the machine. Failure to comply could result in death or serious injury.

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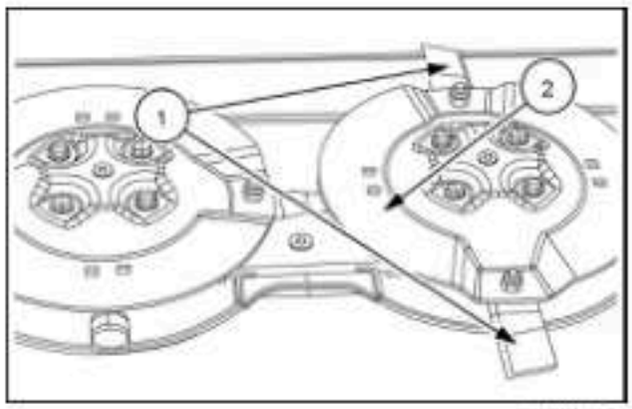
⚠WARNING

Avoid injury!
Replace damaged knives, knife hardware, or discs immediately to prevent an accident. This includes cracked or severely deformed knives.
Failure to comply could result in death or serious injury.

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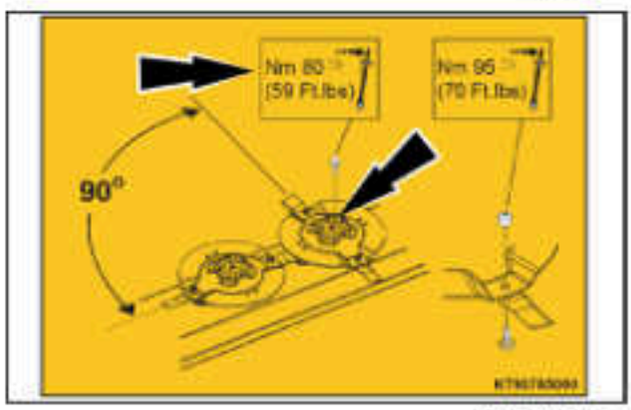
The cutterbar should be inspected for damage or wear on a regular basis such as when turning over the knife edge or replacing knives. Inspect the cutterbar more frequently when operating in known rocky conditions.

1. Inspect the external components for damage, paying particular attention to the knives **(1)** and the discs **(2)**.
   - Broken knives and bent or cracked discs are a result of contact with solid foreign objects, and may indicate possible internal damage.
   - A disc out of the **90 °** phase timing may also indicate internal damage; the discs are properly timed when they are positioned **90 °** to each other.



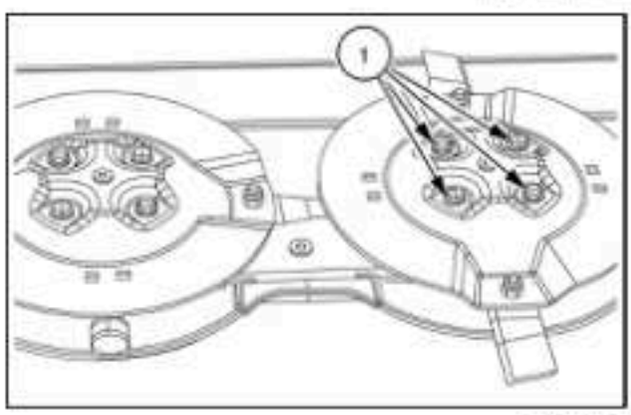
1

NOTICE: *The cutter discs rotate at* ***3000 RPM****. Make sure that each cutter disc is secured to the drive hub with four bolts, and make sure that each of the four bolts is torqued to the specified* ***75 - 85 N·m*** *(****55 - 63 lb ft****). If the bolts are loose or removed for any reason, you must first apply* ***LOCTITE® 242®*** *thread locking compound or an equivalent thread locking compound prior to installing and applying the specified torque.*



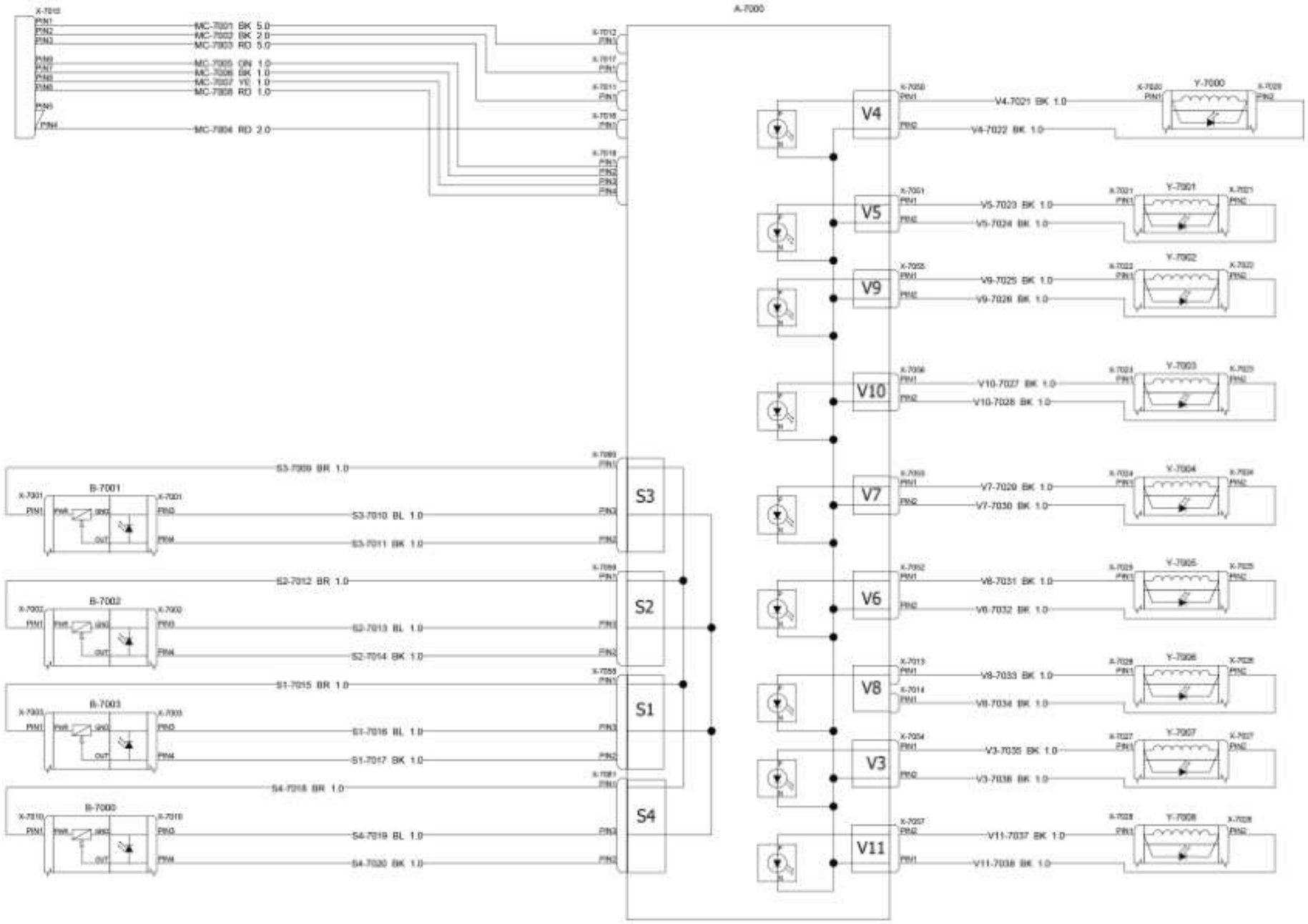
2

2. Carefully grab both ends of each cutter disc, and try to "rock" the disc up and down.
   - A small amount of movement at the ends of the disc is normal.
   - Discs with excessive disc "rock" should have the four cutter disc bolts **(1)** checked for proper torque.
     - Cutter disc bolts **(1)** – Quantity: Four per disc – Torque = **75 - 85 N·m** (**55 - 63 lb ft**)
   - If the four bolts are tight, and an excessive amount of movement still exists, the drive hub bearing assembly is damaged and you must replace the drive hub bearing.



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SHEET 1 - FRONT AND REAR MACHINE

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