SERVICE MANUAL

740CF Super Flex™
Auger Header

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MidWestTech | New Holland 740CF Super Flex Auger Header Service Manual | Publication 47627581

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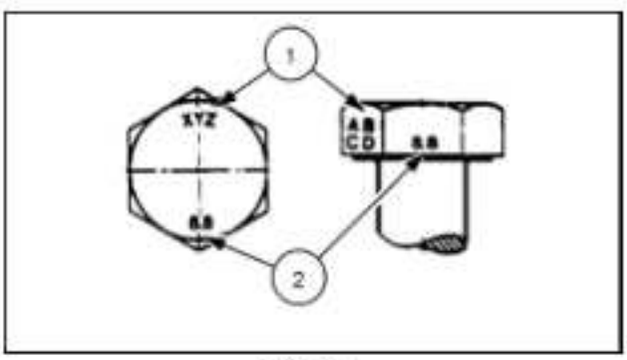
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METRIC FLANGED HARDWARE

NOM. SIZE	CLASS 8.8 BOLT and CLASS 8 NUT		CLASS 10.9 BOLT and CLASS 10 NUT		LOCKNUT CL.8 W/CL8.8 BOLT	LOCKNUT CL.10 W/CL10.9 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.4 N·m (21 lb in)	3.2 N·m (28 lb in)	3.5 N·m (31 lb in)	4.6 N·m (41 lb in)	2.2 N·m (19 lb in)	3.1 N·m (27 lb in)
M5	4.9 N·m (43 lb in)	6.5 N·m (58 lb in)	7.0 N·m (62 lb in)	9.4 N·m (83 lb in)	4.4 N·m (39 lb in)	6.4 N·m (57 lb in)
M6	8.3 N·m (73 lb in)	11 N·m (96 lb in)	12 N·m (105 lb in)	16 N·m (141 lb in)	7.5 N·m (66 lb in)	11 N·m (96 lb in)
M8	20 N·m (179 lb in)	27 N·m (240 lb in)	29 N·m (257 lb in)	39 N·m (343 lb in)	18 N·m (163 lb in)	27 N·m (240 lb in)
M10	40 N·m (30 lb ft)	54 N·m (40 lb ft)	57 N·m (42 lb ft)	77 N·m (56 lb ft)	37 N·m (27 lb ft)	53 N·m (39 lb ft)
M12	70 N·m (52 lb ft)	93 N·m (69 lb ft)	100 N·m (74 lb ft)	134 N·m (98 lb ft)	63 N·m (47 lb ft)	91 N·m (67 lb ft)
M16	174 N·m (128 lb ft)	231 N·m (171 lb ft)	248 N·m (183 lb ft)	331 N·m (244 lb ft)	158 N·m (116 lb ft)	226 N·m (167 lb ft)
M20	350 N·m (259 lb ft)	467 N·m (345 lb ft)	484 N·m (357 lb ft)	645 N·m (476 lb ft)	318 N·m (235 lb ft)	440 N·m (325 lb ft)
M24	607 N·m (447 lb ft)	809 N·m (597 lb ft)	838 N·m (618 lb ft)	1118 N·m (824 lb ft)	552 N·m (407 lb ft)	

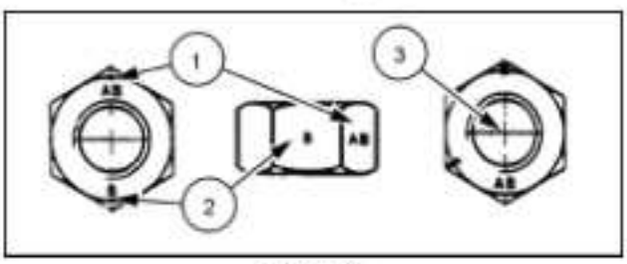
IDENTIFICATION

Metric Hex head and carriage bolts, classes 5.6 and up



1. Manufacturer's Identification
2. Property Class

Metric Hex nuts and locknuts, classes 05 and up



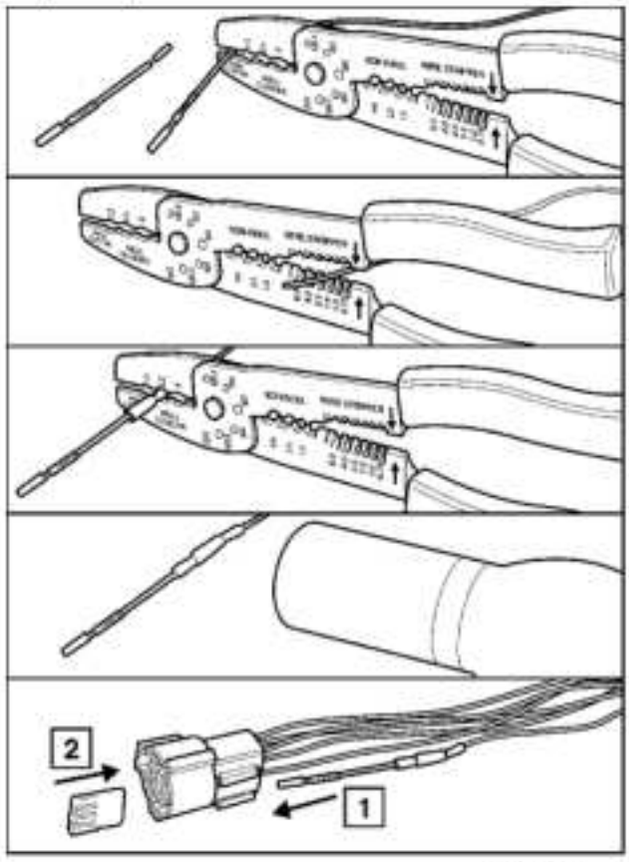
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Wire harnesses - Replace

NOTE: *For Wiring Harness repair, see* ***Wire harnesses - Repair (55.100)***

1. If a wire within the harness is found to be beyond repair or is open circuit, a jumper wire may be installed as a temporary repair until such time when a new harness assembly can be installed. Use the following procedure to install an additional wire:
   Locate the faulty wire using the procedures described in the fault code charts.
   Disconnect the affected connectors.
   If fitted carefully roll back the seal between the connector and harness outer covering.
   Remove the pins from the connector blocks of the affected wire using the appropriate removal tool found in the harness repair kit.

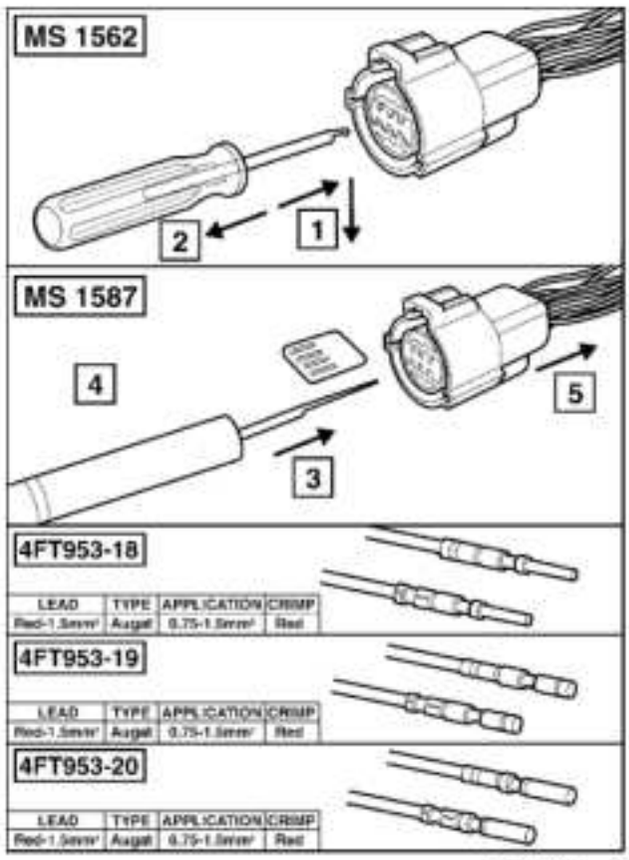
NOTE: *Use the instructions supplied with the kit to ensure correct pin removal.*



1

2. From the harness repair kit select the correct pin for the connectors. Obtain locally the correct cross-sectional size wire and measure out the length required by following the harness routing.
   Join the new wire to the new pins as described in the harness repair kit and install one of the pins into its connector.
   If possible attempt to run the new wire within the existing harness outer covering, if this is not possible run the wire along the harness, securing regularly with suitable ties. With the wire correctly routed instal the second terminal into its connector block. Replace the connector seal if removed.
   To ensure that the repair has been effective check for continuity of the new wire using a suitable multi-meter.

NOTE: *This is a temporary repair only. Ensure the damaged cable is replaced as soon as possible to prevent ingress of water or chemicals.*



2

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N°	Test Point	Expected Result	Other Result (Possible Cause)
7	**Condition** With the combine connector disconnected, **Check** use a multimeter to check for continuity from the header side of the combine connector pin 13 to the header type module connector reference ground pin specified in the pinout table provided in **Header feeding sensor Header type module - Overview (55.421)**	**Result** Continuity is measured between the specified pin and the combine connector **X032** pin 13, **Action** leave the combine connector disconnected and Go to test **8**	**Result** If there is no continuity between the specified pin and the combine connector **X032** pin 13, the reference ground wire is broken. **Action** Locate and repair the damage to the conductor, then retest the system for proper operation.
8	**Condition** With the combine connector **X032** disconnected, **Check** use a multimeter to check for continuity, at the Header type module connector , **X434**, from the signal wire pin specified in the pinout table provided in **Header feeding sensor Header type module - Overview (55.421)** to chassis ground.	**Result** No continuity measured between the specified pin and chassis ground, **Action** leave the combine connector disconnected and Go to test **9**	**Result** If there is continuity between the specified pin and chassis ground, the signal wire is grounded. **Action** Locate and repair the damage to the conductor, then retest the system for proper operation.
9	**Condition** With the combine connector disconnected, **Check** use a multimeter to check for continuity from the header side of the combine connector **X032** pin 27 to the header type module connector **X434** signal wire pin specified in the pinout table provided in **Header feeding sensor Header type module - Overview (55.421)**	**Result** Continuity is measured between the specified pin and the combine connector pin 27,	**Result** If there is no continuity between the specified pin and the combine connector **X032** pin 27, the signal wire is broken. **Action** Locate and repair the damage to the conductor, then retest the system for proper operation.
10	**Condition** With the header attached to the combine and the combine Key switch in the ON position, **Check** use a multimeter to check for **5.0 V**, at the Header type module **R-20** connector , **X434**, from the reference power pin specified in the pinout table provided in **Header feeding sensor Header type module - Overview (55.421)** to chassis ground.	**Result** **4.5 - 5.5 V** is measured between the specified pin and chassis ground, the header type module and configured wiring has all tested properly. The failure in the system is either intermittent or in the combine circuitry or control module. **Action** Refer to the appropriate combine service manual to locate and repair the fault condition.	**Result** Greater than **5.5 V** is measured between the specified pin and chassis ground, there is a short to high voltage in the reference power circuit. **Action** Place the combine Key switch in the OFF position, disconnect the header from the combine at the combine to header connector **X032**, remove the header type module **R-20** from its connector **X434** and Go to test **11**
11	**Condition** With the combine to header connector **X032** disconnected and the header type module **R-20** removed from its connector **X434**, **Check** use a multimeter to measure the resistance between the header side of the combine to header connector **X032** pin 27 and all other populated pins in the combine to header connector on the header side.	**Result** Infinite resistance is measured from pin 27 to all other populated pins, the short to high voltage source in the reference power circuit is in the combine circuitry. **Action** Refer to the appropriate combine service manual to locate and repair the fault condition.	**Result** Less than infinite resistance is measured from pin 27 to one or more of the other populated pins, the short to high voltage source in the reference power circuit is on the header. **Action** Locate and repair the damage to the affected conductors, then retest the system for proper operation.

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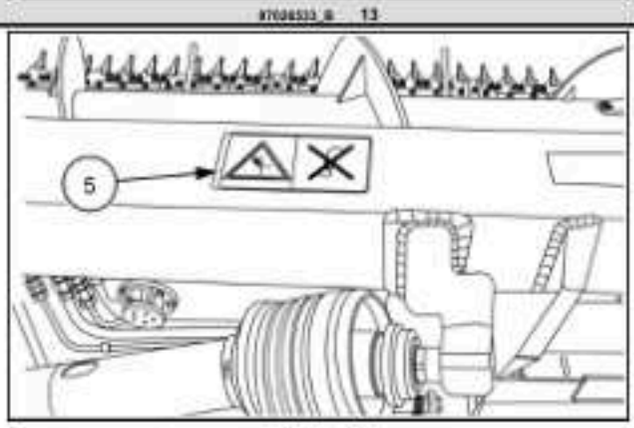
WARNING
Slippery surface.
Do not use this area as a step or platform.
Failure to comply could result in death or serious injury.

Quantity: 2
87026533



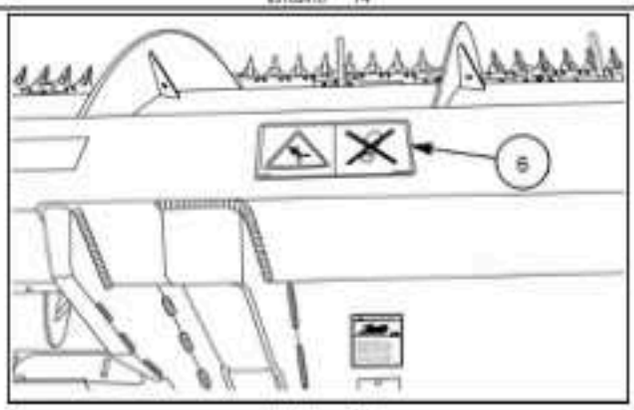
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(5) Left-hand side of the feeder opening, on the top beam.



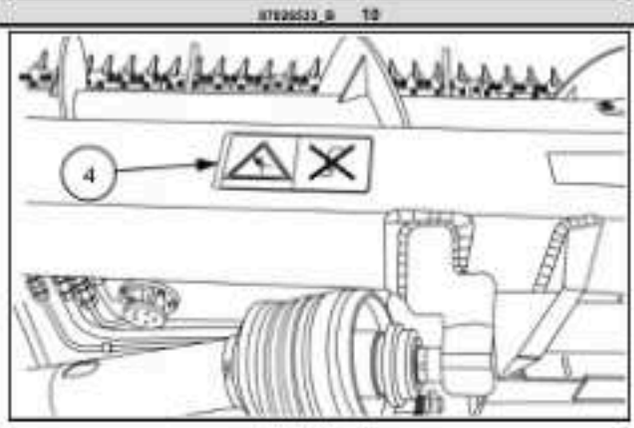
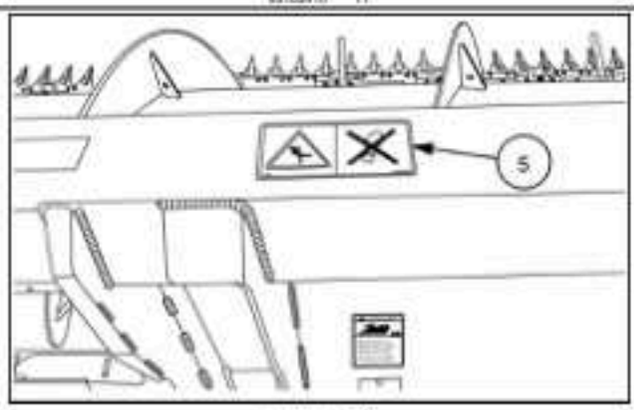
82103410 14

(6) Right-hand side of the feeder opening, on the top beam.



82103411 15

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WARNING **Slippery surface.** **Do not use this area as a step or platform.** **Failure to comply could result in death or serious injury.** **Quantity: 2** **87026533**	 87026533_B 10
(4) Left-hand side of the feeder opening, on the top beam.	 83103410 11
(5) Right-hand side of the feeder opening, on the top beam.	 83103411 12

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