

SWATH UP 450

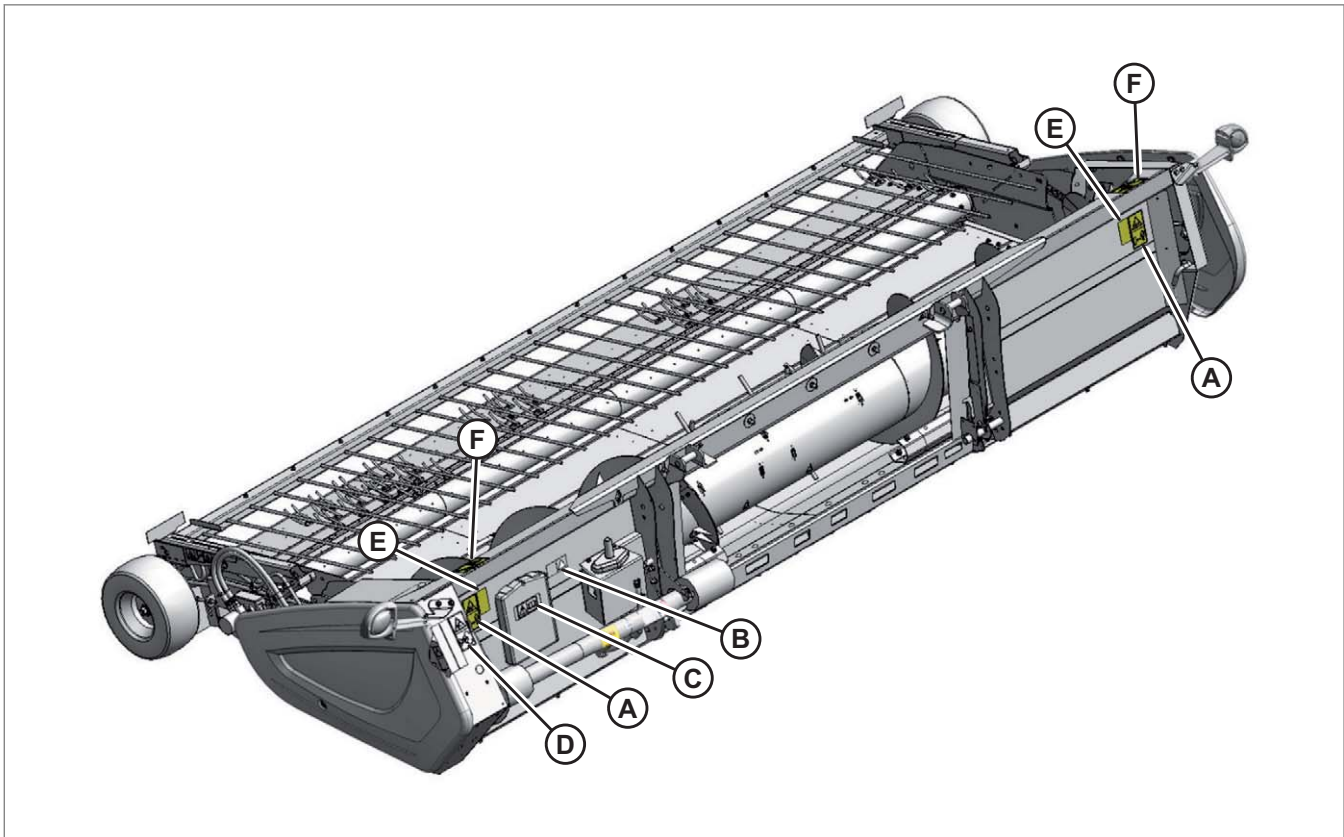
CLAAS

Repair Manual



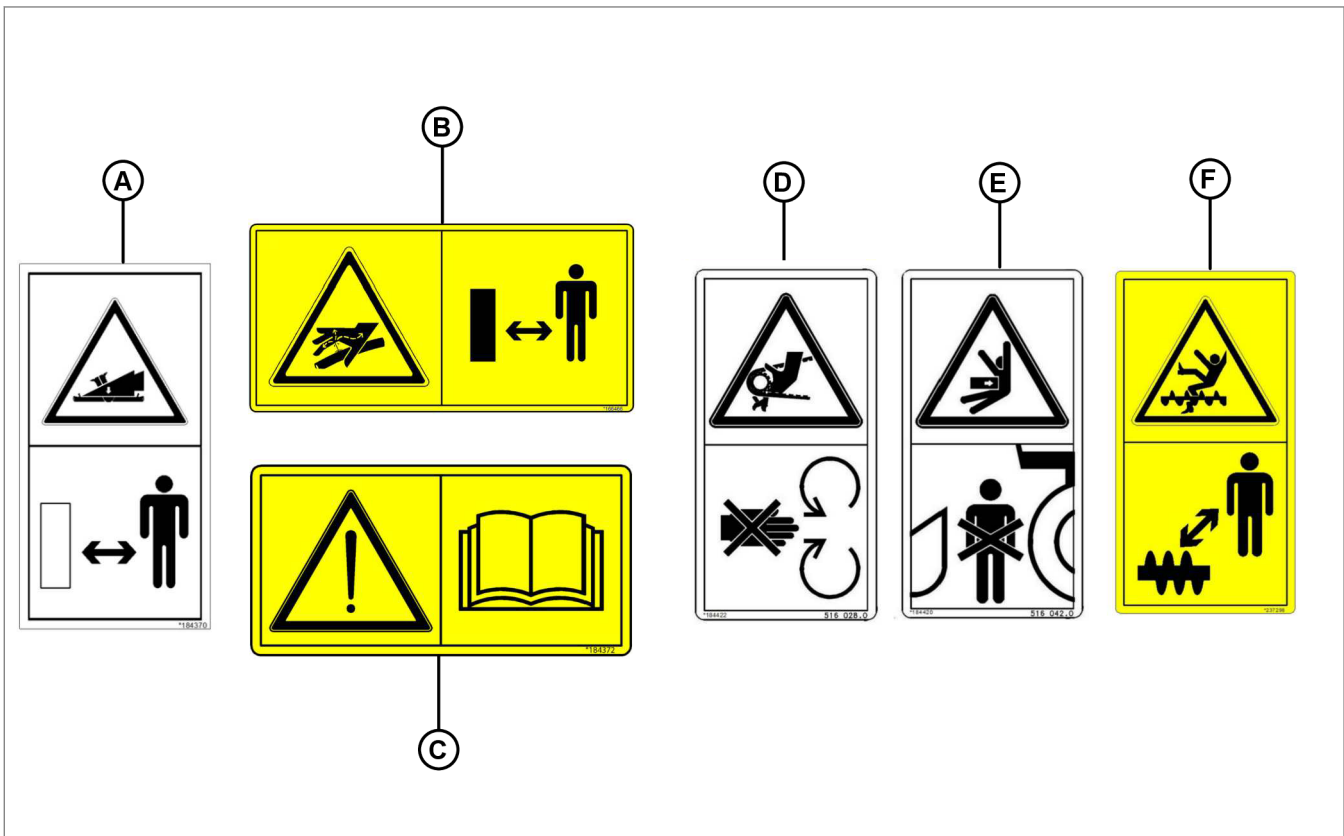
Service & Parts

Safety sign locations



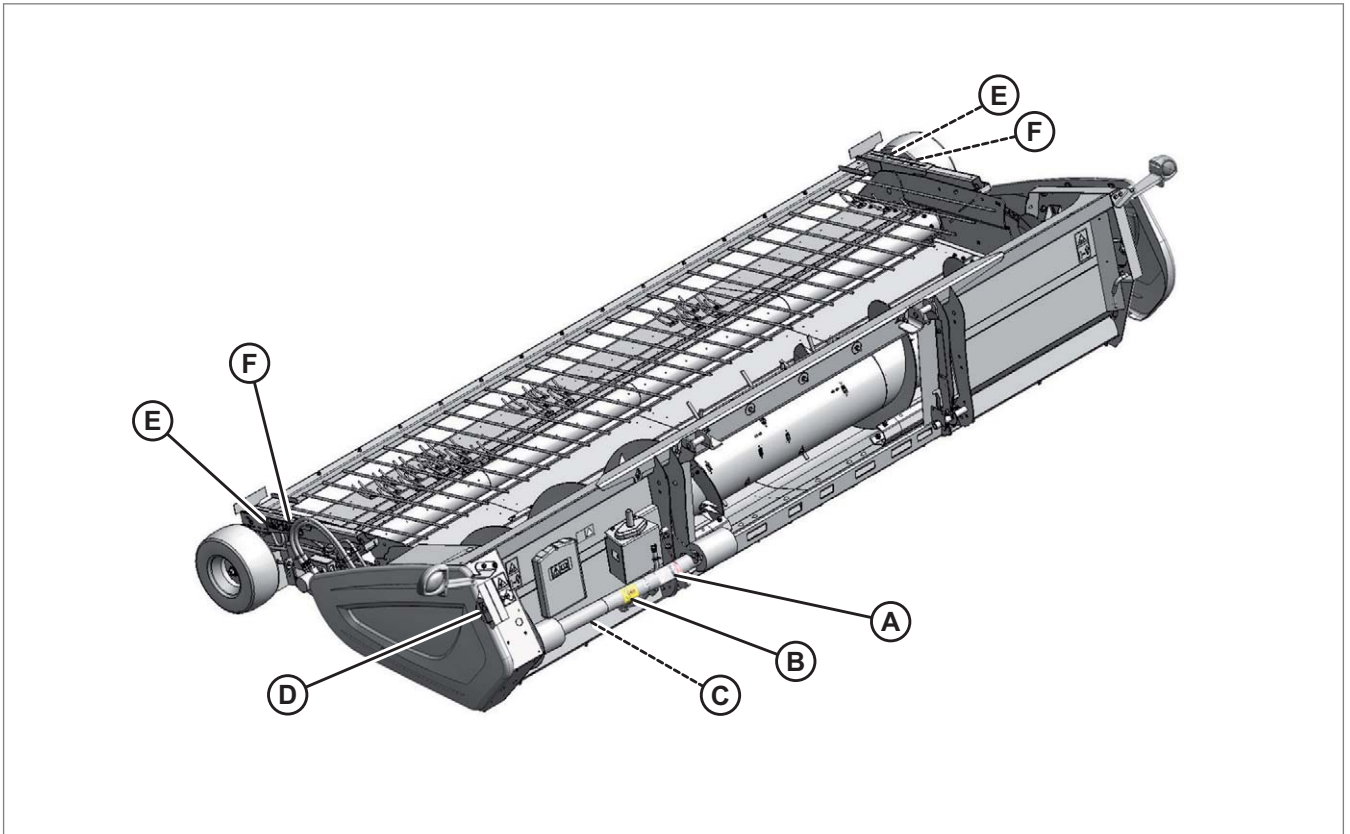
246510-001

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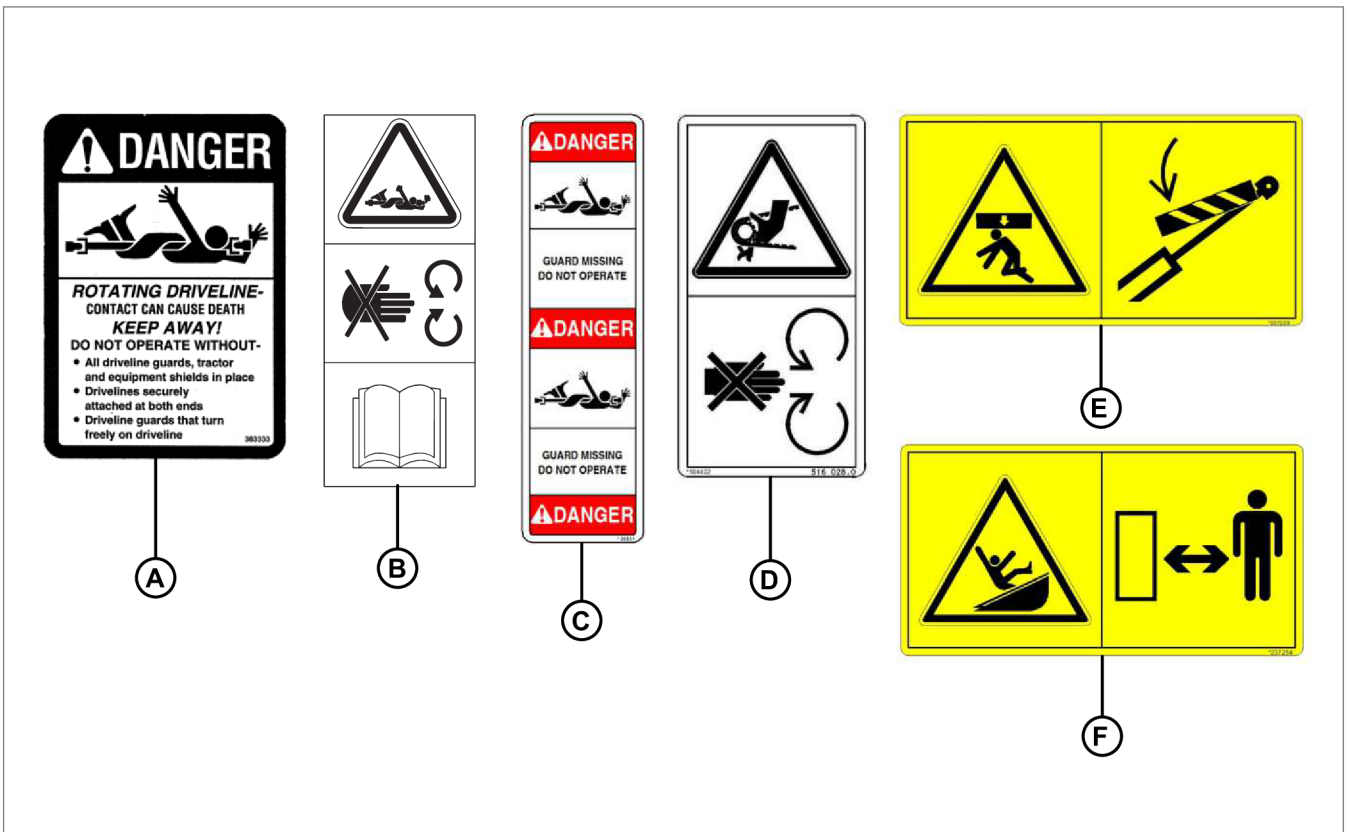
246519-002

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246511-001

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246520-002

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02 Transmission / Clutch / Universal drive shaft

0260 Universal drive shaft

167992-003

Removing header driveline

168333-004

! DANGER

Stop engine and remove key from ignition before leaving operator's seat for any reason. A child or even a pet could engage an idling machine.

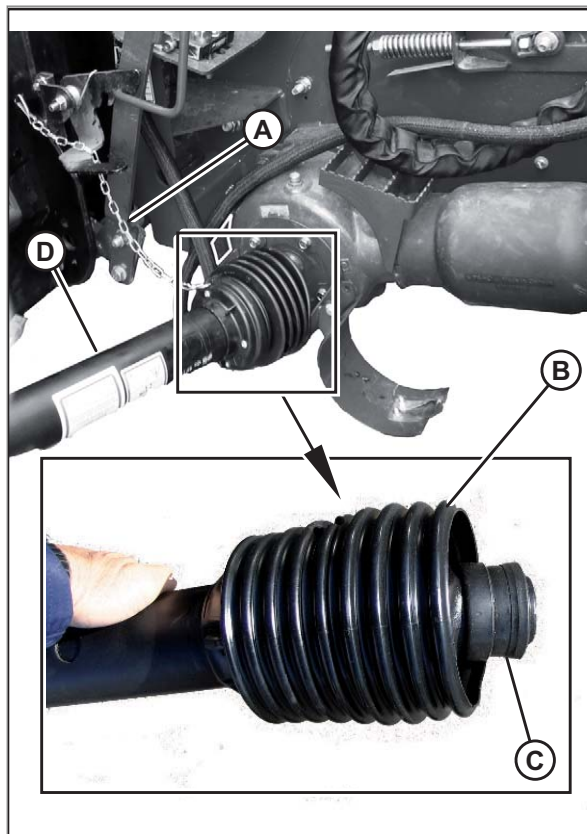
- ▶ Lower header to ground, shut down engine, and remove key from ignition.
- ▶ Disconnect tethers (A) that secure drive line guard to header.
- ▶ Pull back the guard (B) to expose the collar (C) at the combine end of drive line.

168374-003

! CAUTION

To prevent injury, or damage to the drive line, hold the drive line so that it doesn't fall to the floor.

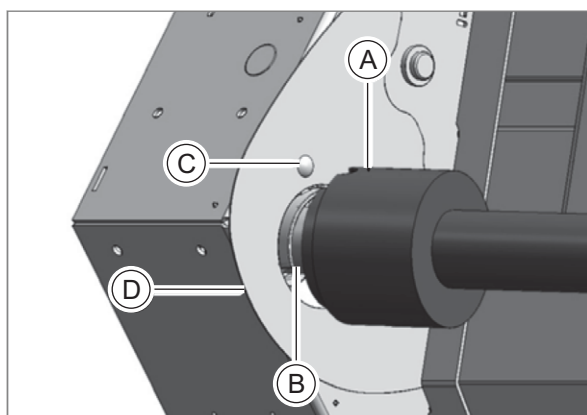
- ▶ Pull back collar (C), and pull drive line (D) off feeder house shaft. Support end of drive line.



246589-002

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- ▶ Pull back the guard (A) to expose the collar (B) at the header end of driveline. If necessary, loosen bolt (C) so that plate (D) can be moved to release the guard.
- ▶ Pull back collar (B), and pull driveline off header driveshaft.



252506-001

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Installing header drive line

168333-004

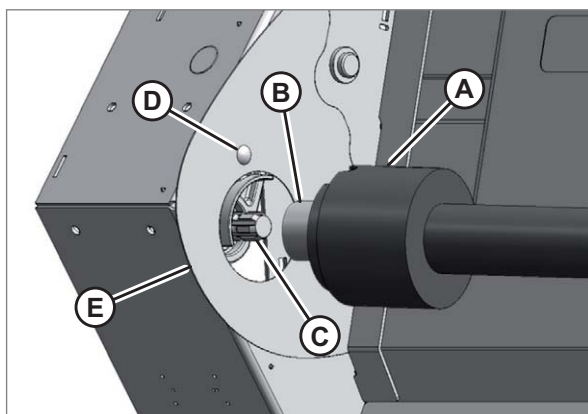
⚠ DANGER

Stop engine and remove key from ignition before leaving operator's seat for any reason. A child or even a pet could engage an idling machine.

168374-003

⚠ CAUTION

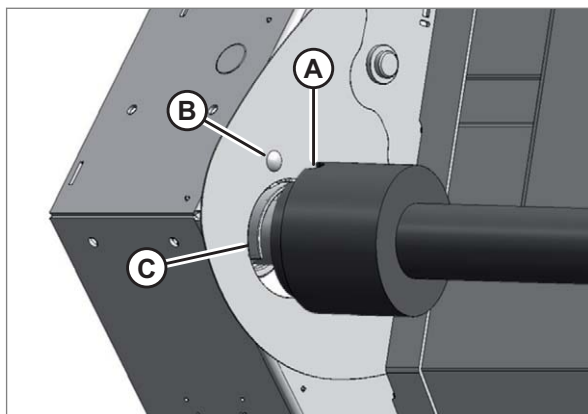
To prevent injury, or damage to the drive line, hold the drive line so that it doesn't fall to the floor.



252509-002

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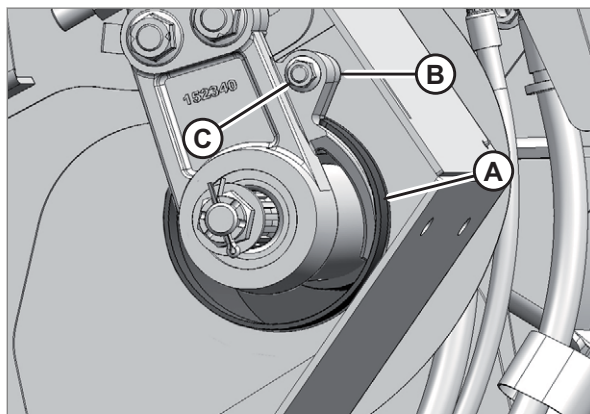
- ▶ Lower header to ground, shut down engine, and remove key from ignition.
- ▶ Pull back the guard (A) to expose the collar (B) at the header (notched) end of the driveline.
- ▶ Pull back collar (B), and slide coupler onto splined input shaft (C) until it locks. Release the collar (B).
- ▶ If necessary, loosen bolt (D) so that plate (E) can be moved to provide sufficient clearance for driveline guard.



252510-002

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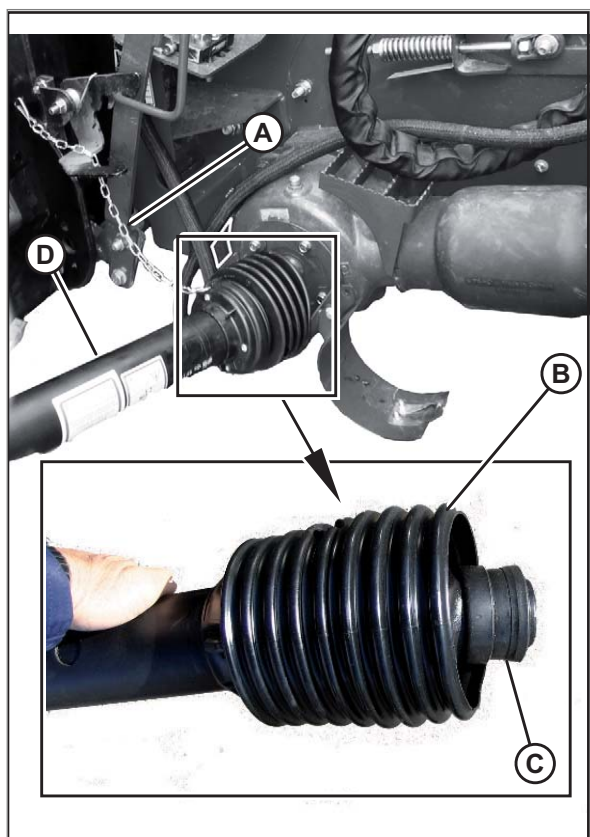
- ▶ Line up the notch (A) in the driveline rubber bellows with bolt (B) so that the notch fits around the casting (C) inside the auger drive compartment.



252511-002

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- ▶ Sandwich the lip (A) on the driveline bellows between the hole in the endsheet and the casting (B).
- ▶ Tighten bolt (C).



246589-002

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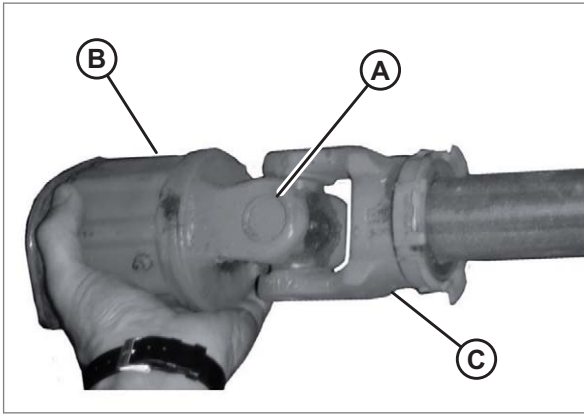
- ▶ Pull back the guard (B) to expose the collar (C) at the combine end of the drive line (D).
- ▶ Pull back collar (C), and push drive line (D) onto feeder house shaft until collar locks.
- ▶ Attach tethers (A) that secure drive line guard to header.

Replacing drive line clutch

167996-001

If the drive line clutch cannot maintain the required torque to operate the header, it must either be repaired or replaced. Refer to your SWATH UP parts catalog for available replacement parts.

It is recommended that repairs be performed by your specialist workshop.



246406-001

- ▶ Remove driveline from header. [Page 30](#)
- ▶ Remove the drive line guard (A). Refer to removing drive line guard. [Page 33](#)
- ▶ Remove the cross and bearings (A) connecting the clutch (B) to the drive line yoke (C).
- ▶ Install new bearings and cross (A), and clutch (B) onto existing drive line yoke (C).
- ▶ Re-install the guard (A). [Page 35](#)
- ▶ Re-install driveline. [Page 31](#)

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Removing drive line guard

167995-004

The drive line guard must remain attached to the drive line, but can be removed for maintenance purposes only.

168333-005

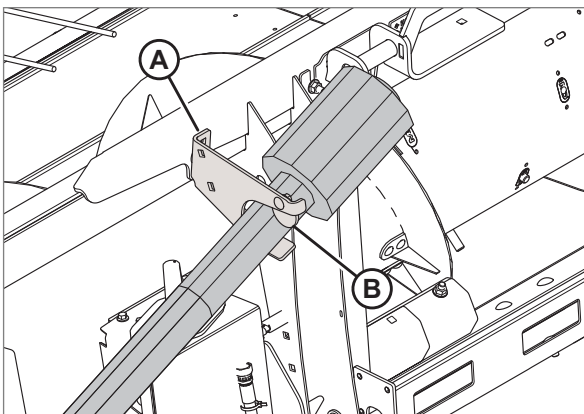
! DANGER

To avoid bodily injury or death from unexpected startup of machine, always stop engine and remove key from ignition before leaving operator's seat for any reason.

168375-003

NOTICE

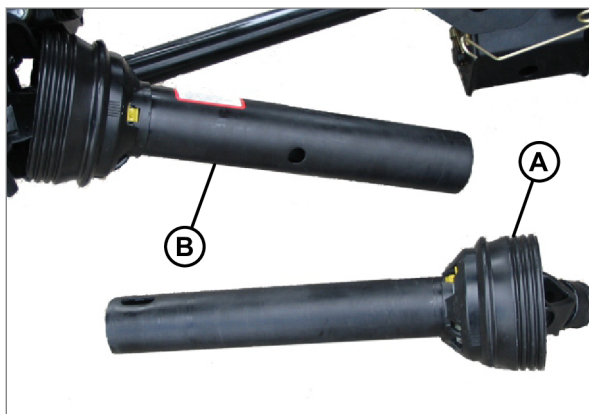
The drive line does NOT need to be removed from the header in order to remove the drive line guard.



246473-001

- ▶ Stop engine and remove key from ignition.
- ▶ Disconnect tethers (not shown) at ends of drive line.
- ▶ If the driveline is in the storage position, rotate disc (B) on drive line storage hook (A), and remove drive line from hook.
- ▶ If the driveline is attached to the combine, remove the driveline from the combine by pulling the quick disconnect collar to release the driveline yoke from the combine shaft.

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246313-002

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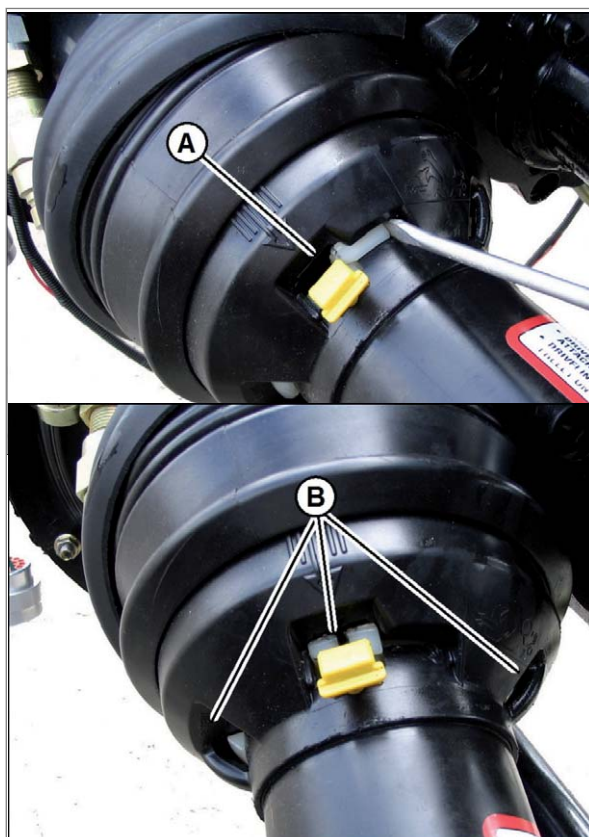
- ▶ Lift the combine end of the driveline (A) from the hook, and extend the driveline until it separates. Hold the adapter end of the driveline (B) to prevent it from dropping and hitting the ground.



246314-001

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- ▶ Use a slotted screwdriver to release grease zerk/lock (A).



246315-001

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- ▶ Rotate driveline guard locking ring (A) counterclockwise using a slotted screwdriver until lugs (B) line up with slots in guard.
- ▶ Pull driveline guard off driveline.

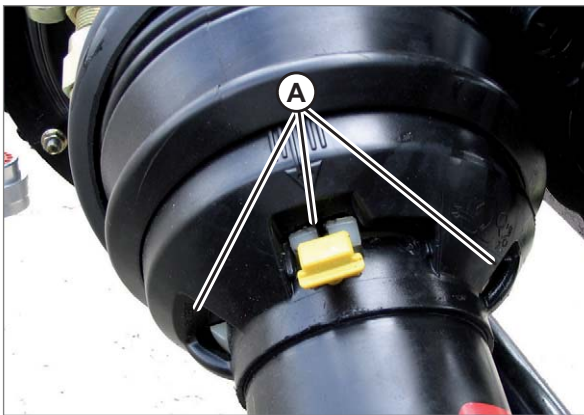
Installing drive line guard



246316-001

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- ▶ Slide drive line guard onto drive line, and line up slotted lug on locking ring (A) with arrow (B) on guard.



246317-001

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- ▶ Push drive line guard onto ring until locking ring is visible in slots (A).



246318-001

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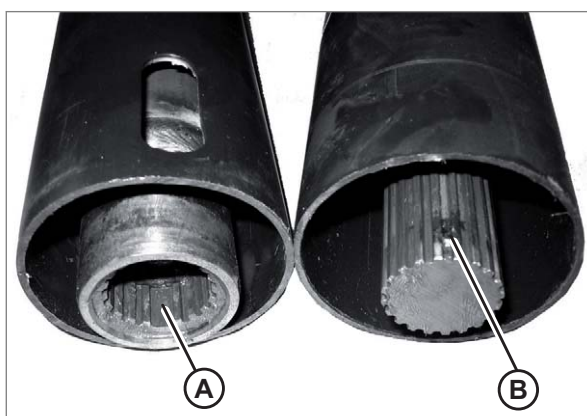
- ▶ Use a slotted screwdriver to rotate ring (A) clockwise and lock ring in guard.



246319-001

- ▶ Push grease zerk (A) back into guard

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246320-001

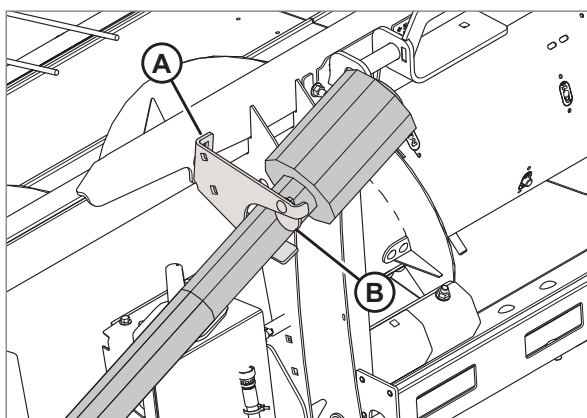
- ▶ Reassemble drive line.

168376-003

NOTICE

The splines are keyed so that universals are aligned. Align weld (A) with missing spline (B) when assembling.

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246473-001

- ▶ Slide driveline into hook (A) on header and rotate disc (B) to secure driveline (or connect driveline to combine).
- ▶ Attach tether (not shown) to header.

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09 Hydraulics

0900 General hydraulics

170938-003

Hydraulic hoses and lines



246267-001

Check hydraulic hoses and lines daily for signs of leaks.

168391-003

⚠ WARNING

- ▶ Avoid high-pressure fluids. Escaping fluid can penetrate the skin causing serious injury.
- ▶ Relieve pressure before disconnecting hydraulic lines.
- ▶ Tighten all connections before applying pressure. Keep hands and body away from pin- holes and nozzles which eject fluids under high pressure.
- ▶ If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor who is familiar with this type of injury or gangrene may result.

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246266-001

168393-003

⚠ WARNING

Use a piece of cardboard or paper to search for leaks.

168394-003

NOTICE

- ▶ Keep hydraulic coupler tips and connectors clean. Dust, dirt, water and foreign material are the major causes of hydraulic system damage.
- ▶ DO NOT attempt to service hydraulic system in the field. Precision fits require WHITE ROOM CARE during overhaul.

171006-001

Hydraulic Testing Equipment

Throughout the life of the machine several hydraulic tests may need to be performed on the unit in order to properly diagnose a particular hydraulic problem.



236290-001



137549-001



137553-001

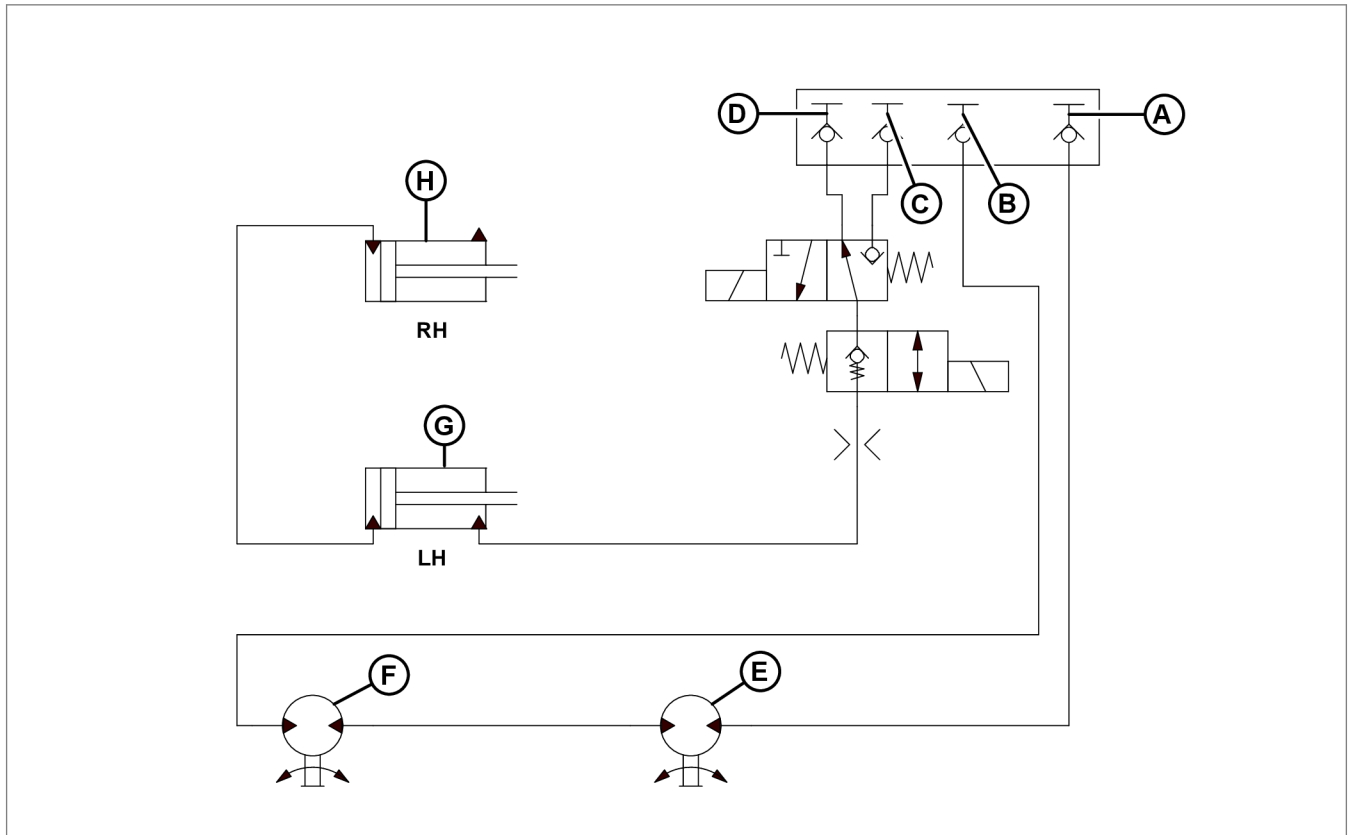
51

	Special tool (l)	Pcs.
1	Hydraulics diagnostics kit (basic kit) 00 0178 310 1	1
2	Hydraulics diagnostics kit (supplementary kit) 00 0178 320 0	1
3	Adapter kit 00 0178 341 0	1

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Hydraulic schematics



280562-001

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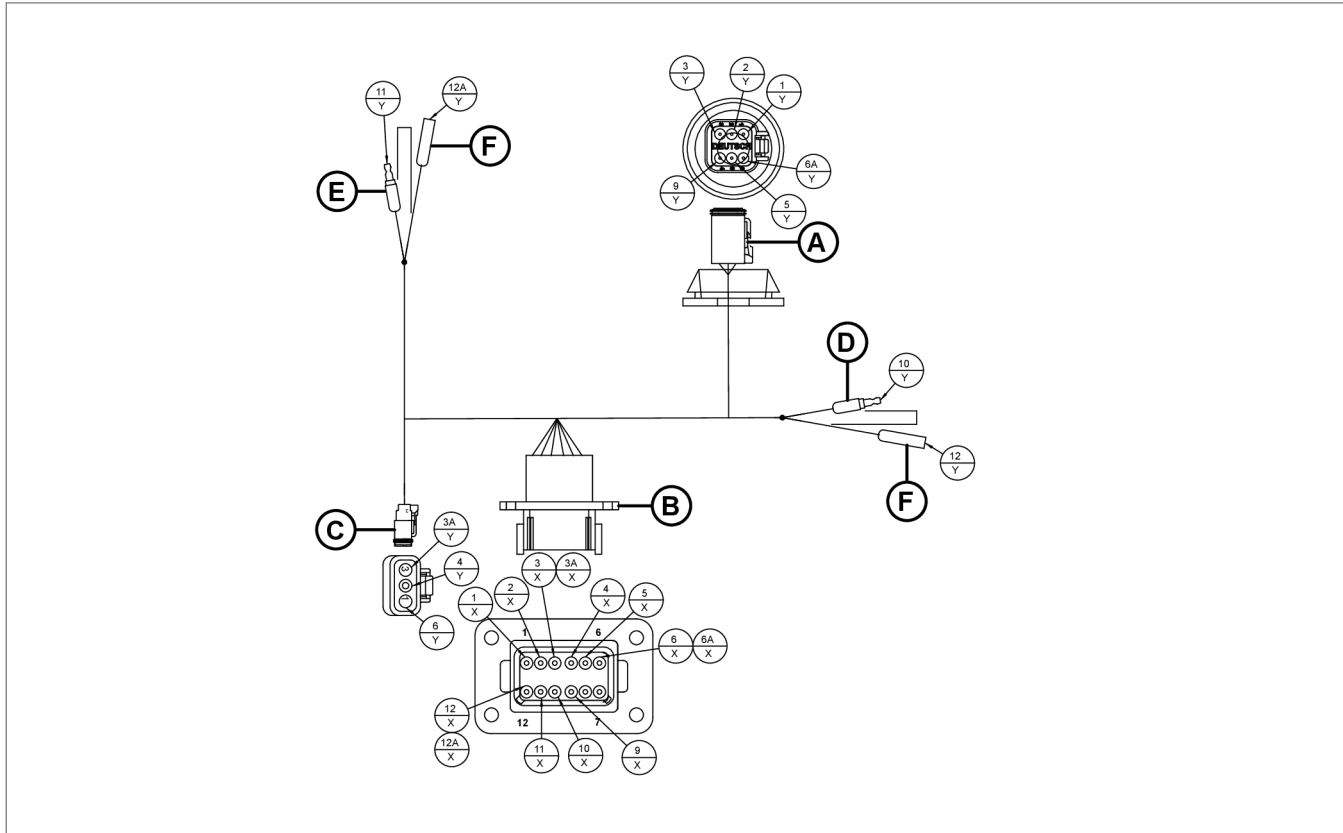
A	Pressure line
B	Return line
C	Hold-down raise line
D	Hold-down lower line
E	Rear motor
F	Front motor
G	Left master cylinder
H	Right slave cylinder

10 Electrical / electronic equipment

1000 General electrics

170975-003

Main header harness (2014)



255959-002

55

	Description	
A	6 position plug	
B	12 position receptacle	
C	3 position plug	
D	Bullet connector (male)	
E	Bullet connector (male)	
F	Bullet receptacle (female)	

6 position plug (A)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (B)	Reel speed sensor ground
2	2	yellow	Pin 2 on (B)	Reel speed sensor signal
3	3	brown	Pin 3 on (B)	Left height sensor ground
4	9	orange	Pin 9 on (B)	Right height sensor signal

Pin	Wire	Color	To	Service
5	5	white	Pin 5 on (B)	Reel speed sensor power
6	6A	pink	Pin 6 on (B)	Right height sensor power

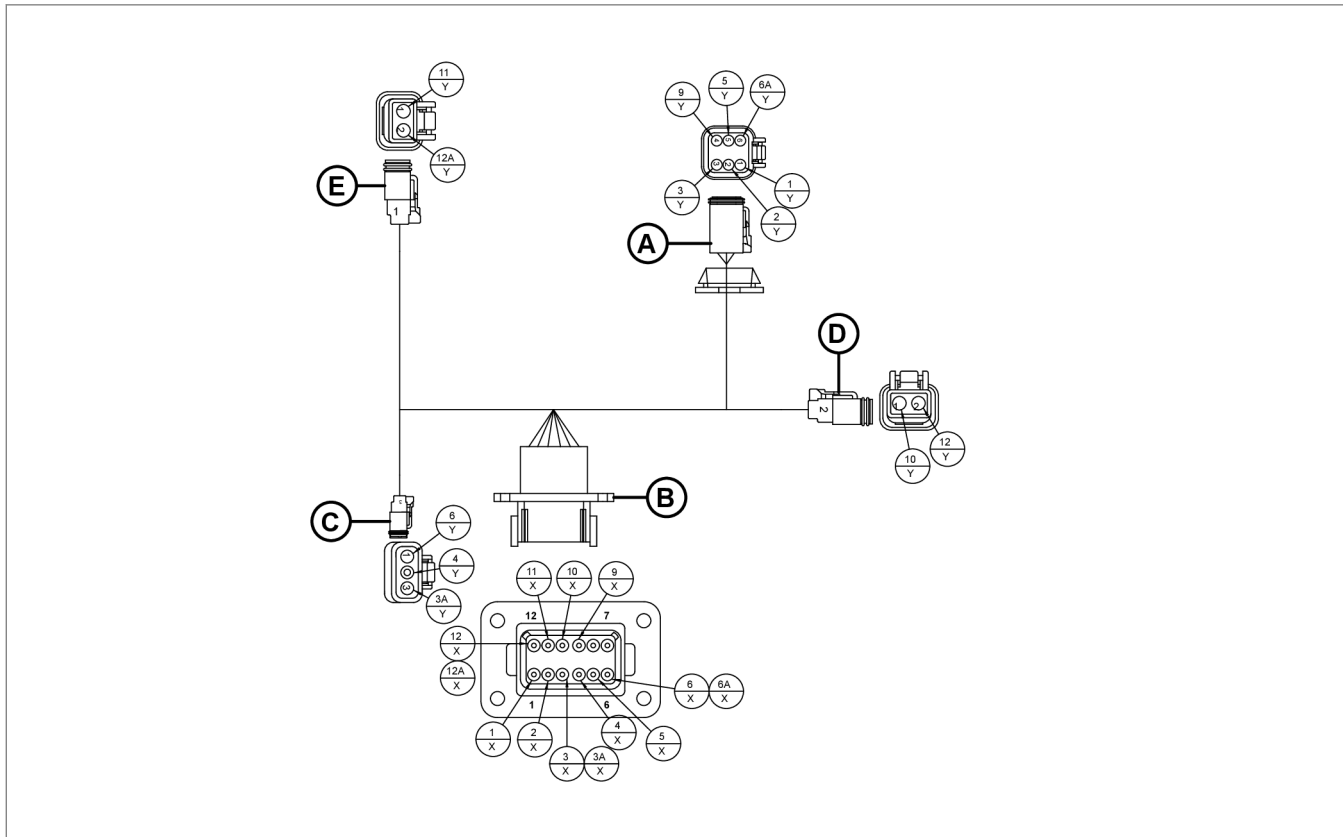
12 position receptacle (B)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (A)	Reel speed sensor ground
2	2	yellow	Pin 2 on (A)	Reel speed sensor signal
3	3	brown	Pin 3 on (A)	Left height sensor ground
	3A	brown	Pin 3 on (C)	Right height sensor ground
4	4	orange	Pin 2 on (C)	Left height sensor signal
5	5	white	Pin 5 on (A)	Reel speed sensor power
6	6	pink	Pin 1 on (C)	Left height sensor ground
	6A	pink	Pin 6 on (A)	Right height sensor power
9	9	orange	Pin 4 on (A)	Right height sensor signal
10	10	light blue	Bullet connector	Right turn
11	11	dark blue	Bullet connector	Left turn
12	12	black	Bullet receptacle	Ground lights
	12A	black	Bullet receptacle	Ground lights

3 position plug (C)

Pin	Wire	Color	To	Service
1	6	pink	Pin 6 on (B)	Left height sensor ground
2	4	orange	Pin 4 on (B)	Left height sensor signal
3	3A	brown	Pin 3 on (B)	Right height sensor ground

Main header harness (from 2015)



280580-001

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	Description	
A	6 position plug	
B	12 position receptacle	
C	3 position plug	
D	2 position plug (Right turn)	
E	2 position plug (Left turn)	

6 position plug (A)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (B)	Reel speed sensor ground
2	2	yellow	Pin 2 on (B)	Reel speed sensor signal
3	3	brown	Pin 3 on (B)	Left height sensor ground
4	9	orange	Pin 9 on (B)	Right height sensor signal
5	5	white	Pin 5 on (B)	Reel speed sensor power
6	6A	pink	Pin 6 on (B)	Right height sensor power

12 position receptacle (B)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (A)	Reel speed sensor ground
2	2	yellow	Pin 2 on (A)	Reel speed sensor signal
3	3	brown	Pin 3 on (A)	Left height sensor ground
	3A	brown	Pin 3 on (C)	Right height sensor ground
4	4	grey	Pin 2 on (C)	Left height sensor signal
5	5	white	Pin 5 on (A)	Reel speed sensor power
6	6	pink	Pin 1 on (C)	Left height sensor ground
	6A	pink	Pin 6 on (A)	Right height sensor power
9	9	orange	Pin 4 on (A)	Right height sensor signal
10	10	light blue	Pin 1 on (D)	Right turn
11	11	dark blue	Pin 1 on (E)	Left turn
12	12	black	Pin 2 on (D)	Ground lights
	12A	black	Pin 2 on (E)	Ground lights

3 position plug (C)

Pin	Wire	Color	To	Service
1	6	pink	Pin 6 on (B)	Left height sensor ground
2	4	grey	Pin 4 on (B)	Left height sensor signal
3	3A	brown	Pin 3 on (B)	Right height sensor ground

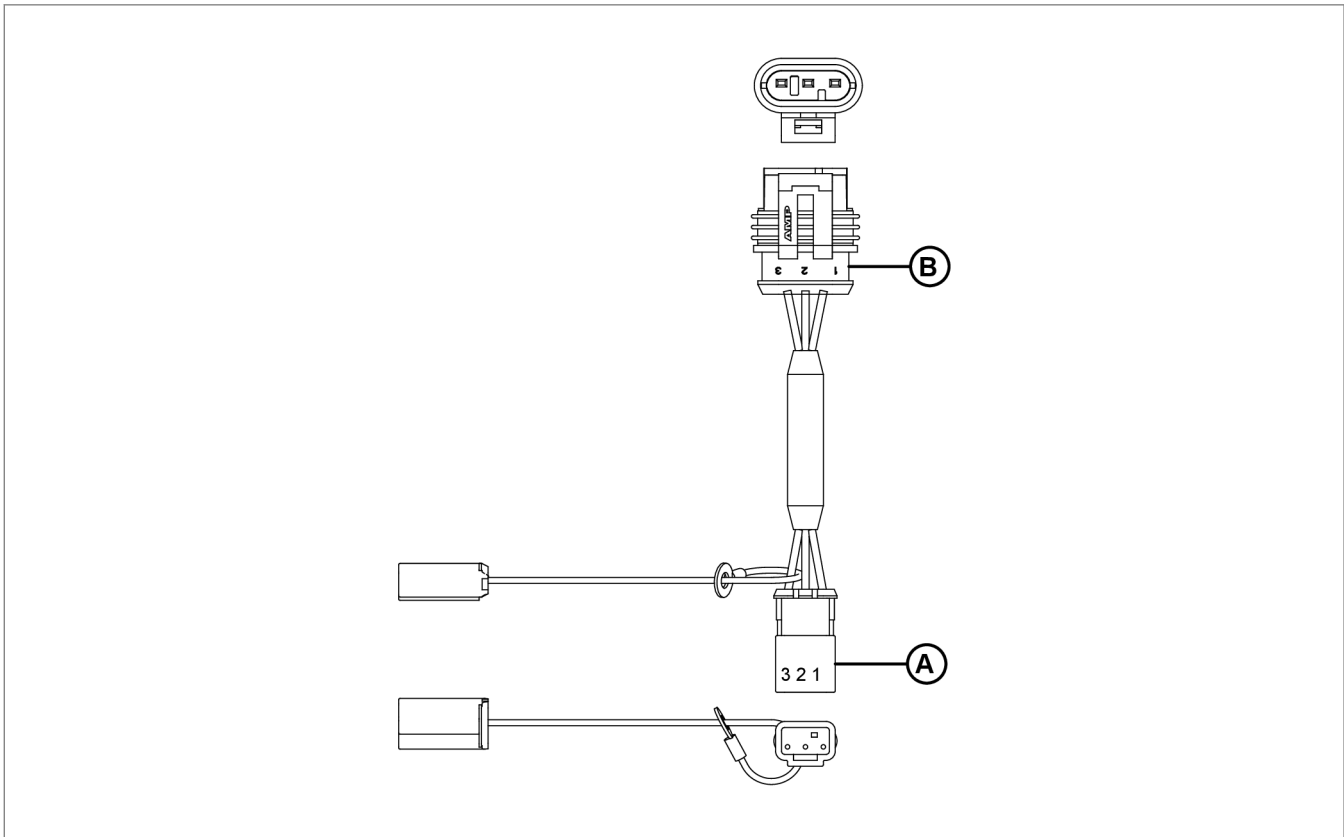
2 position plug (D)

Pin	Wire	Color	To	Service
1	10	pink	Pin 10 on (B)	Right turn
2	12	orange	Pin 12 on (B)	Ground lights

2 position plug (E)

Pin	Wire	Color	To	Service
1	11	pink	Pin 11 on (B)	Left turn
2	12A	orange	Pin 12 on (B)	Ground lights

Left header height harness



255960-002

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	Description	
A	3 position receptacle	
B	3 position plug	

3 position receptacle (A)

Pin	Wire	Color	To	Service
1	1	pink	Pin 2 on (B)	Power
2	2	grey	Pin 3 on (B)	Signal
3	3	brown	Pin 1 on (B)	Ground

3 position plug (B)

Pin	Wire	Color	To	Service
1	3	brown	Pin 3 on (A)	Ground
2	1	pink	Pin 1 on (A)	Power
3	2	grey	Pin 2 on (A)	Signal



Suggest:

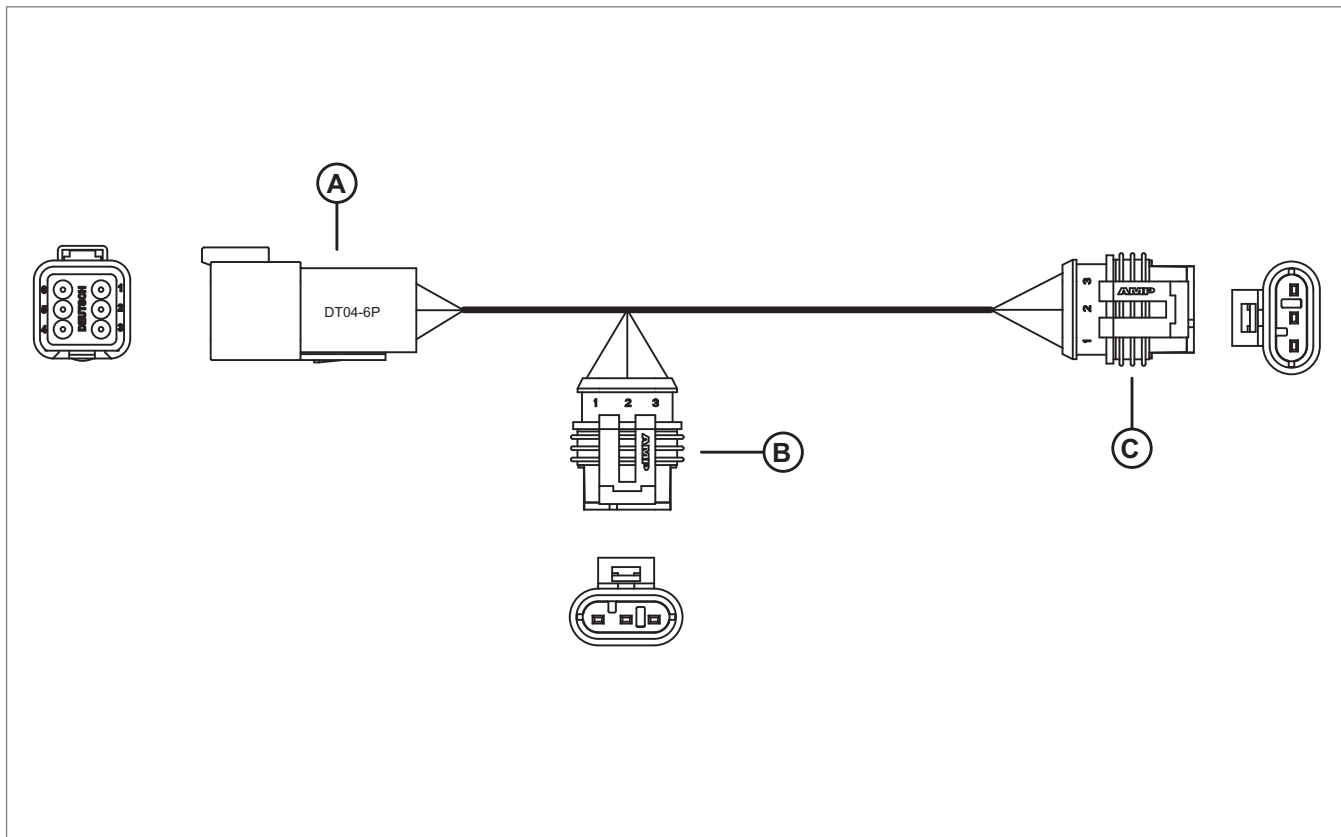
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RH harness



255961-001

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	Description	
A	6 position receptacle	
B	3 position plug (Header Height)	
C	3 position plug (Reel Speed)	

6 position plug (A)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (C)	Reel speed sensor ground
2	2	yellow	Pin 2 on (C)	Reel speed sensor signal
3	3	brown	Pin 1 on (B)	Height sensor ground
4	4	orange	Pin 3 on (B)	Height sensor signal
5	5	white	Pin 3 on (C)	Reel speed sensor power
6	6	pink	Pin 2 on (B)	Height sensor power

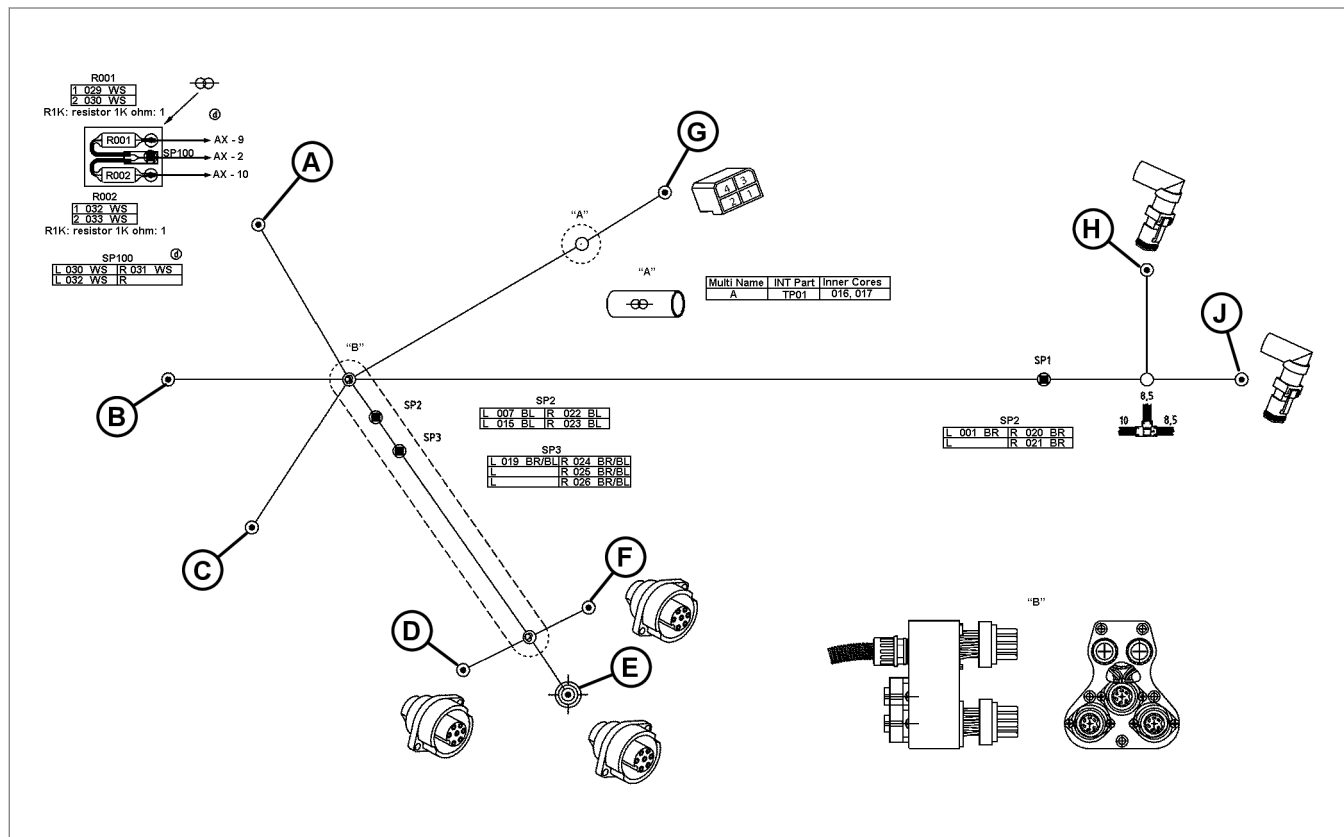
3 position plug (B)

Pin	Wire	Color	To	Service
1	3	brown	Pin 3 on (A)	Height sensor ground
2	6	pink	Pin 6 on (A)	Height sensor power
3	4	orange	Pin 4 on (A)	Height sensor signal

3 position plug (C)

Pin	Wire	Color	To	Service
1	1	green	Pin 1 on (A)	Reel speed sensor ground
2	2	yellow	Pin 2 on (A)	Reel speed sensor signal
3	5	white	Pin 5 on (A)	Reel speed sensor power

Wiring harness



	Description	
A	AX	
B	BX	
C	CX	
D	VS3	
E	VS2	

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