SERVICE MANUAL

Durabine™ 416
Durabine™ 419
Durabine™ 416 Specialty
Disc Header

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Specifications – General - Durabine™ 416 and Durabine™ 416 Specialty

Header to Speedrower® windrower compatibility	
Models	**Speedrower®** 200
	Speedrower® 220
	Speedrower® 240
	Speedrower® 260
Tire sizes	18.4 x 26
	16.9 x 28
	21L x 28
	480/80R26
	580/70R26
	600/65R28

Header dimensions	
Ground clearance to skid shoe *	**686 mm (27 in)** minimum tilt
Overall width **	**5 m (16.3 ft)**

* With 18.4 x 26 tires
** Overall width at ground level – Right-hand belt shield extends past the end of the cutterbar

Header weights	
Shipping – Header with conditioner*	**2314 kg (5100 lb)** [with chevron rubber rolls or flail conditioner]*
Shipping – Header without conditioner	**1923 kg (4240 lb)**
Operating – Header with conditioner*	**2132 kg (4700 lb)** [with chevron rubber rolls or flail conditioner]*
Operating – Header without conditioner	**1686 kg (3717 lb)**

* For weights with steel rolls, add **32 kg (70 lb)**

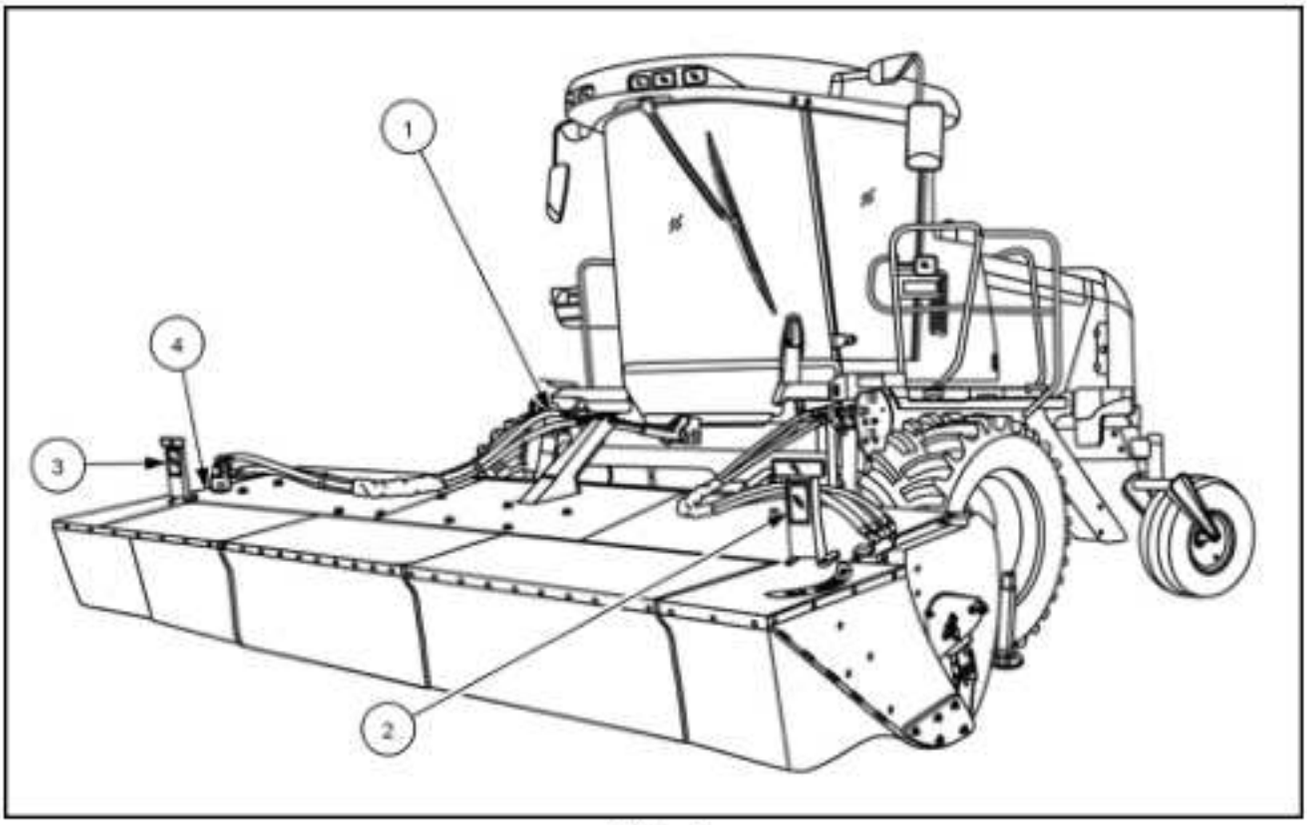
MowMax™ II cutterbar	
Cutting width	**4.9 m (16.1 ft)**
Cutting height *	**18 - 89 mm (0.7 - 3.5 in)**
Cutting height with optional hi-stubble shoes	**76 - 159 mm (3.0 - 6.25 in)**
Cutterbar angle range*	**0 - 10 °**
Cutterbar type	Modular with individual oil sumps
Cutterbar disc rotation configuration	Five pairs of counter-rotating discs- no co-rotating discs
Number of discs	10
Number of reversible, swing-away knives per disc	2
Disc cutting diameter	**618 mm (24.3 in)**
Disc drive – Type	Bevel gear sets in individually-sealed modules
Disc rotational speed – Maximum	**2500 RPM**
Knife tip speed	**291 km/h (181 mph)**
ShockPRO™ Shock protection	Frangible splines in the disc drive hub are standard on all non-drive discs

* With 18.4 x 26 tires

Header drive	
Cutterbar input drive	Hydraulic driven with two hydraulic motors Left-hand: **49 cm³/rev (3 in³/rev)** Right-hand: **65 cm³/rev (3.92 in³/rev)**
Drive pressure – Forward	**345 bar (5000 psi)**
Drive pressure – Reverse	**400 bar (5800 psi)**

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Electrical system - Component localization



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Overview – Component localization

(1) Header connector [Header pass through to Frame Main (FM)]

Schematic identifier:

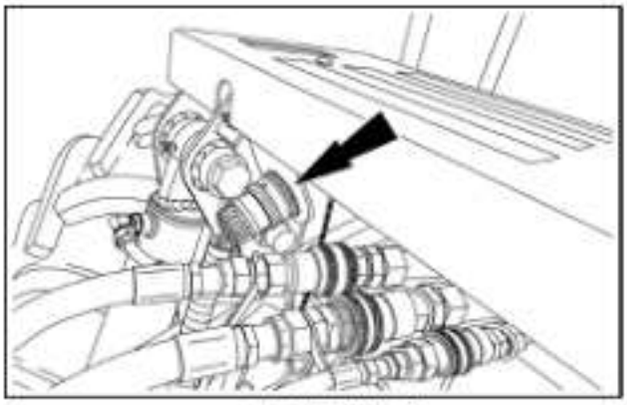
X-192

Location:

On the front of the windrower, adjacent to the hydraulic hose connections.

Additional information:

Wire connectors - Component diagram 19 - Connectors X-190 to X-199 (55.100)



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(2) Left-hand header hazard light

Schematic identifier:

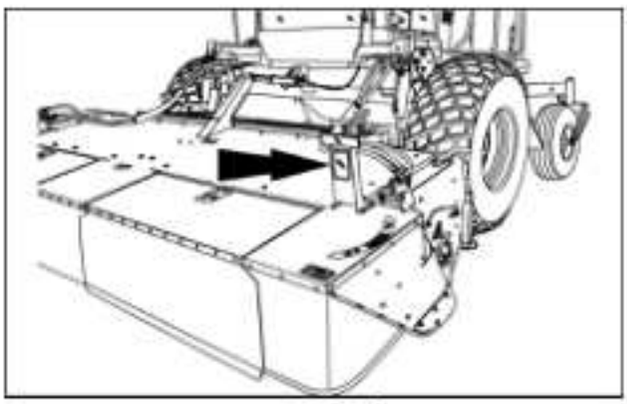
E-026

Location:

Left-hand side of the header.

Additional information:

Turn signal and/or hazard lights - Dynamic description (55.404)

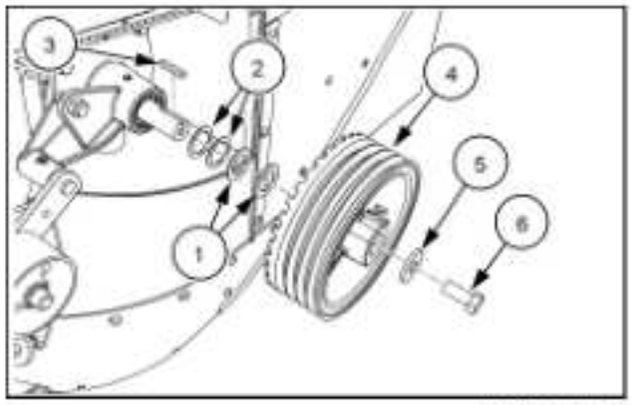


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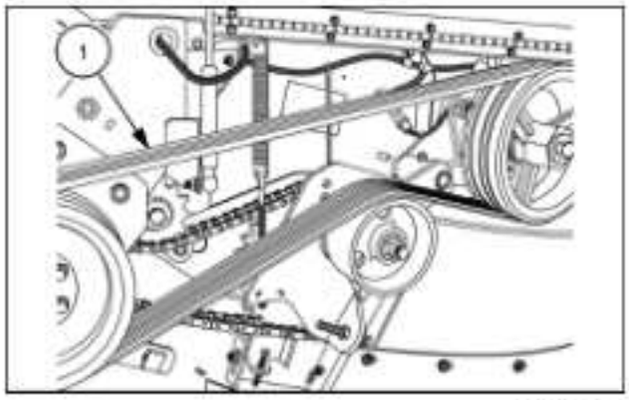
Drive pulley - Install - Drive sheave

1. Install the two sizes of shims **(1)** **(2)** that you previously removed.
2. Install the key **(1)** into the key slot on the shaft.
3. Install the drive sheave **(4)** onto the shaft.
4. Secure the sheave with the washer **(5)** and the 3/4 inch x 1-3/4 inch bolt **(6)**.



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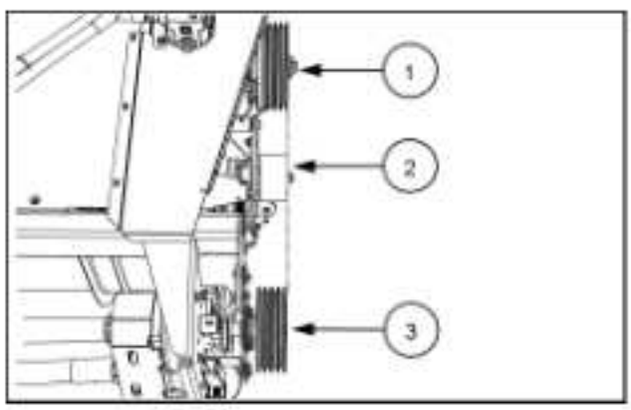
5. Install and tension the header drive belt **(1)**. See **Header drive belt - Install (60.120)**.



2

6. Check the alignment of the drive sheave **(1)**, the idler **(2)**, and the driven sheave **(3)** after you tension the drive belt. All three components should be aligned to within **1.0 mm** (**0.039 in**).

   Remove the header drive belt and drive sheave and add or remove shims to achieve this dimension. It may be necessary to shim the gearbox mount to the header side sheet.



3

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(9)

Description:

WARNING
ENTANGLEMENT HAZARD
SHIELD IS OPEN
Stand clear of the rotating drive sheaves, belt, sprockets, and chain during operation.
Replace or close the shield before operating machine.
Failure to comply could result in death or serious injury.

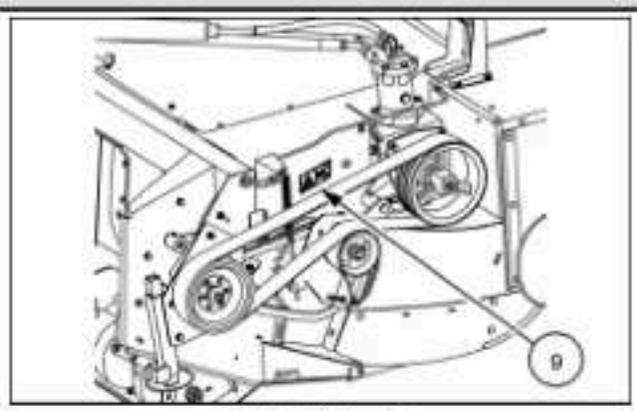
Quantity: 1



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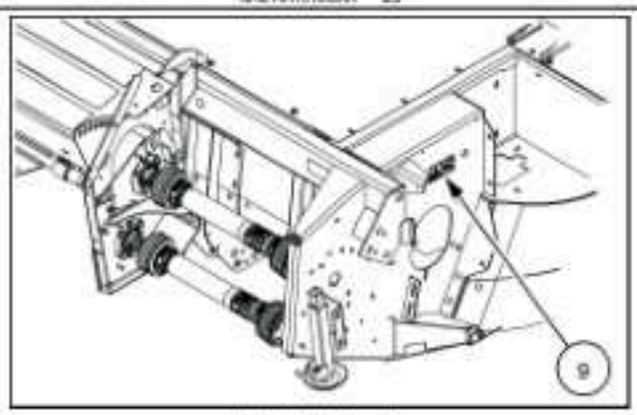
Part number:
84011345

(9) Located and mounted on the right-hand side header frame side sheet and behind the conditioner drive belt shield.



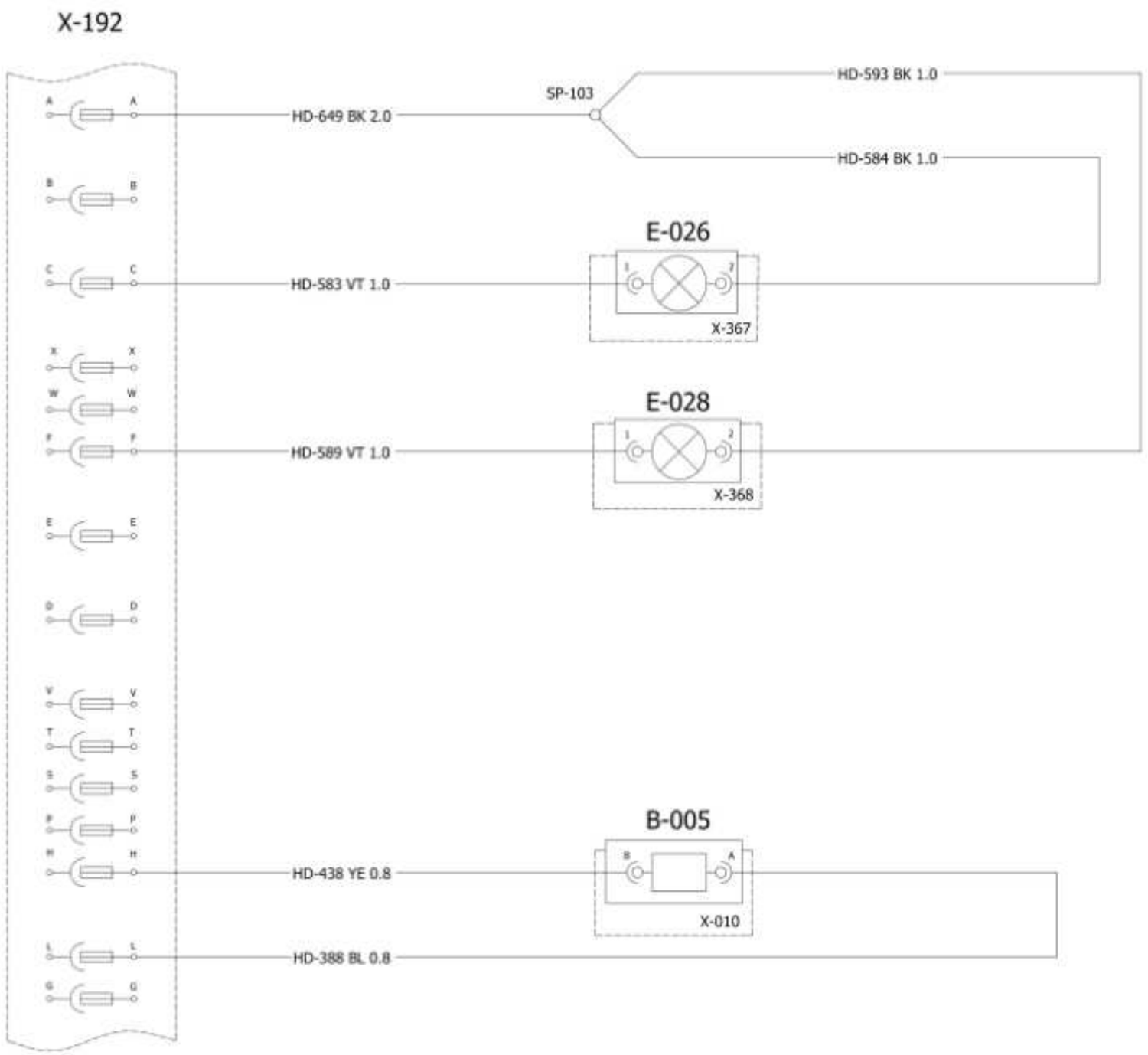
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(9) Location shown with drive system removed.



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