AXIAL-FLOW® 7250
AXIAL-FLOW® 8250
AXIAL-FLOW® 9250
Tier 4B (final)
Combine

PIN YKG241001 and above

OPERATOR'S MANUAL

Part number 51564361

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CASE IH AGRICULTURE

MidWestTech | Case Axial Flow 7250, 8250, 9250, Tier 4B Combine Operator's Manual | Publication 51564361

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NOTE: *The Operator's Manual consists of two volumes. The first volume contains operating information, the second volume the maintenance and diagnostic information.*

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LIGHTING

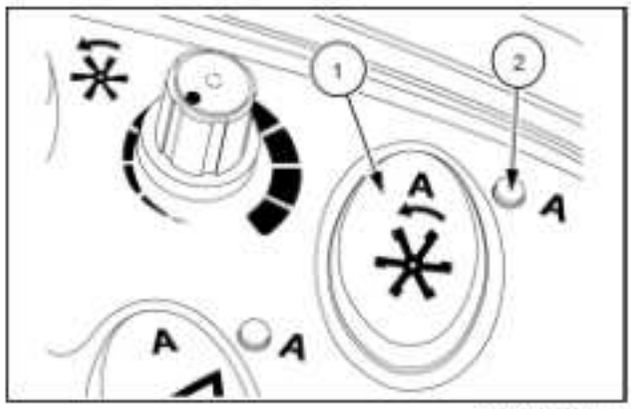
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Reel drive – Controls

Auto Reel Speed Selector Switch **(1)**:

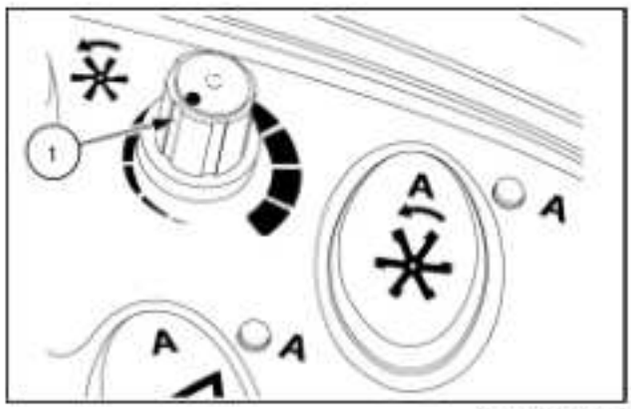
- Press the top of switch for the ON position.
  - The reel speed will automatically increase or decrease with the combine ground speed.
  - The Indicator light **(2)** will remain illuminated while Auto Reel speed is engaged.
- Press the bottom of switch for the OFF position.
  - The reel speed is controlled manually, using the potentiometer control. See **6-156** for additional information.



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Reel Speed Potentiometer Control **(1)**:

- The Potentiometer allows the operator to set the Reel speed in manual mode or varies the reel offset speed in auto mode.
- Turn the control clockwise to increase the offset speed ratio in auto mode or increase the reel speed in manual mode.
- Turn the control counterclockwise to decrease the offset speed ratio or decrease the reel speed in manual mode.
- The ratio of reel speed to ground speed is about one to one. The offset speed defines an additional reel constant speed above the reel speed that is proportional to ground speed. See **6-156** for additional information.



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Threshing controls

Rotor speed – Switch

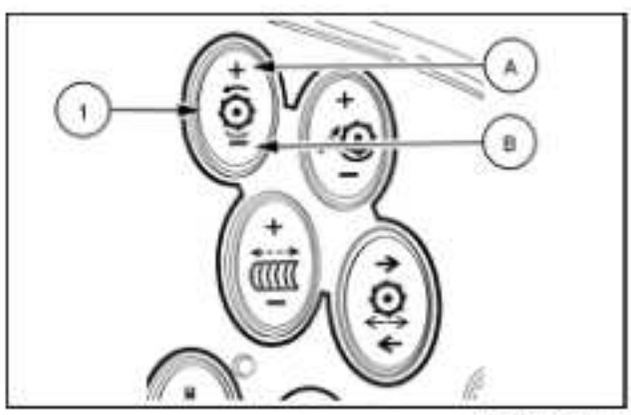
Rotor speed control switch **(1)**:

Increase:

- Press the top of switch **(A)** to increase the speed of the rotor.
  - During rotor deslug operation, pressing the plus (+) portion of the switch will rotate the rotor forward in it's normal direction of operation.

Decrease:

- Press the bottom of switch **(B)** to decrease the speed of the rotor.
  - During rotor deslug operation, pressing the minus (–) portion of the switch will rotate the rotor backwards from it's normal direction of operation.



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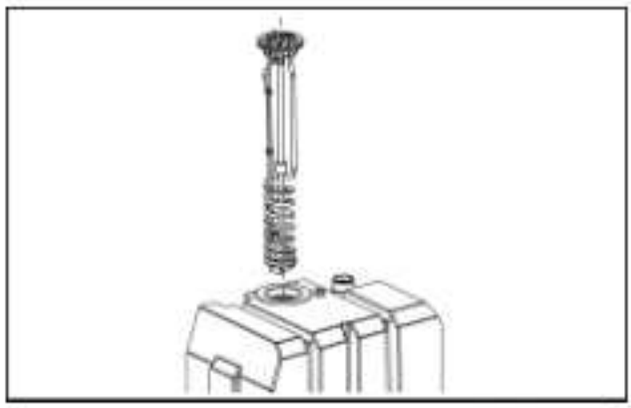
Every 1200 hours or two years

Diesel Exhaust Fluid (DEF)/AdBlue® in tank filter

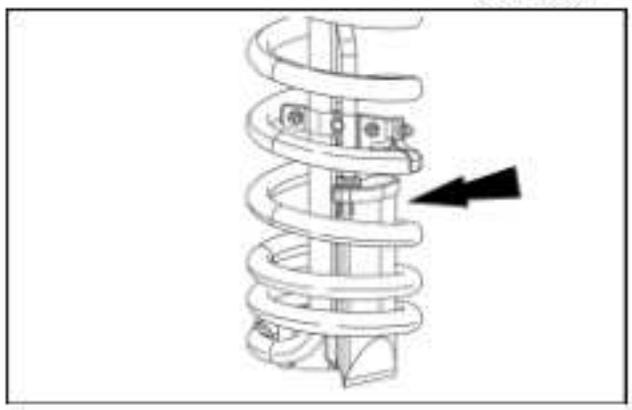
1. The Diesel Exhaust Fluid (DEF)/AdBlue® suction circuit filter is located inside the Diesel Exhaust Fluid (DEF)/AdBlue® tank.

NOTE: *Combines equipped with an in-line filter will not have the in tank filter. If you combine has an in-line filter see* ***7-109****.*

2. The filter should be replaced every 1200 hours or two years whichever comes first.
   - This filter should be serviced by your CASE IH dealer.
   - This filter should be replaced if ongoing Diesel Exhaust Fluid (DEF)/AdBlue® system pressure errors are experienced.
   - This filter must be replaced if it is removed for any reason.



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NHL16AF9067AA 2

Every 1200 hours

Hydraulic reservoir, oil, and filters

⚠WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery key, if installed.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W0047A

Oil Reservoir

An oil reservoir is fitted for the hydraulic system.
This systems draws oil from it's own reservoir, and the oil goes through a separate filtering system.
The hydraulic oil and filters should be changed every 1200 operating hours.
The hydraulic return filter needs to be replaced every time the oil is changed.

NOTICE: *Oil quality and cleanliness is of utmost importance for the reliability and life of the hydraulic and hydrostatic system. Deviation from the pre- scribed oil specification may lead to severe damage and void warranty.*

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	AF7250	AF8250	AF9250
Upper sieve grate surface	**1940 cm² (301 in²)**		
Lower shaker shoe			
Lower sieve length	**1446 mm (56.9 in)**		
Lower sieve width	2 x **790 mm (31.1 in)**		
Lower sieve area	**22840 cm² (3540 in²)**		
Total sieve area under wind control	**6.5 m² (10075 in²)**		
Cleaning fan			
Type	Cross-Flow		
Drive	Hydraulic		
Fan speed range	**300 – 1150 RPM**		
Speed Control	Closed Loop		
Number of blades	40		
Return system			
Tailings Return Type	Triple Impeller Crop Processor		
Cross auger speed	**548 RPM**		
Bottom impeller speed	**548 RPM**		
Middle impeller speed	**481 RPM**		
Top impeller speed	**657 RPM**		
Grain handling			
Central filling, foldable bubbler	Std.		
Grain tank capacity	Standard capacity **11100 l (315 Bu)**	**14448 L (410 Bu)**	
	High capacity **14448 L (410 Bu)**		
In-cab control of grain tank extension/covers	Optional		
Unloading concept	Over the top unloading		
Unloading tube length, from center line of combine			
Standard capacity	**6.7 m (22 ft)**		
Standard capacity with **914 mm (36 in)** extension	**7.6 m (24 ft 10 in)**		
Standard capacity with **1321 mm (52 in)** extension	**8 m (26 ft 2 in)**		
High capacity	**7.2 m (23 ft 7 in)**		
High capacity with extension	**8.8 m (28 ft 8 in)**		
Folding unload tube	**8.8 m (28 ft 9 in), 95°** fold angle		
	10.4 m (34 ft), 125° fold angle		
Bubble up auger speed	**338 RPM**		
Bubble up auger speed - Optional high speed (corn)	**464 RPM**		
Residue			
Straw chopper (Opt)	Integral - Fixed		
Number of knives-Standard cut	24, 2-row chevron		
Number of counter-knives Standard cut	12		
Number of knives-Fine cut	40, 2-row helix		
	120, 3-row helix		
Number of counter-knives-Fine cut	40		
Speed	**800 RPM** low or **3000 RPM** high		
Chopper Drive	3HB Belt		

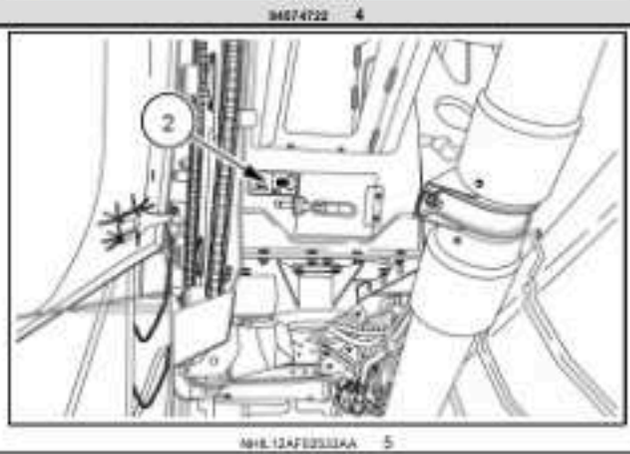
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Never reach into a rotating auger
84574722
Quantity: 1



84574722 4

(2) Beside the unloading tube clean out door



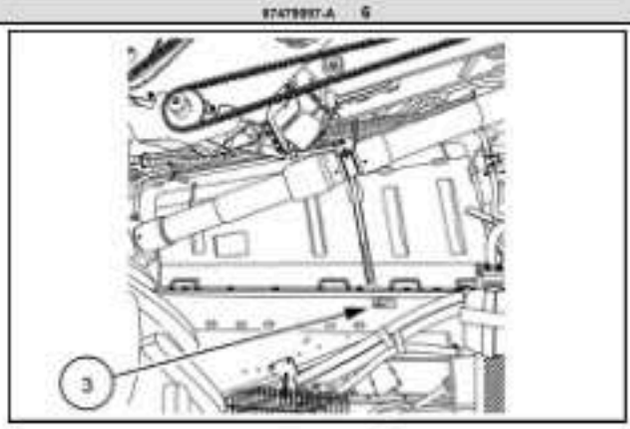
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Wait until all machine components have stopped completely before touching them.
87479097
Quantity: 2



87479097-A 6

(3) At the left-hand side rotor access covers



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Limitation factor

The limiting factor refers to a part of the system that is at it's sensitivity limit and will prevent the system from making further adjustments to reach your set performance goals.

Limiting factors are:

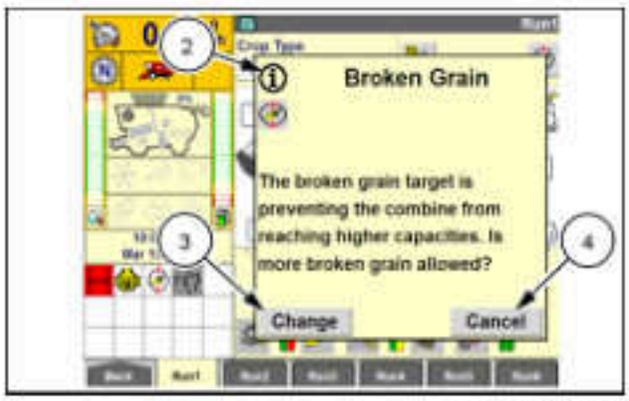
- Losses (threshing losses, sieve losses)
- Grain quality (MOG, broken grain, unthreshed ears/white caps)
- Tailings
- Maximum ground speed
- Maximum engine load

NOTE: *The limitation factor icon will only pop-up in the right corner if there is one.*

9. Press the limitation factor button **(1)**
   - This will display the limitation factor screen **(2)**
   - This screen will give you the option to change the calibration of the limiting factor.
   - Press the change button **(3)** to change the calibration.
   - Press the cancel button **(4)** to return to the run screen with no changes.



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	Rotor loss limits the capacity		Material Other than Grain (MOG) limits the capacity
	Sieve loss limits the capacity		Engine load limits the capacity
	Returns volume limits the capacity		Ground speed limits the capacity
	Rotor speed limits the capacity		Broken grain limits the capacity

Unreachable targets

In certain conditions there is certain level of broken grain, MOG, tailings and losses you cannot get rid of completely.

If the sensitivity is set way too high, the loss monitors **(1)** will constantly be in the red; hence the Automation system will keep on taking actions, but will not be able to bring them back in the green.

Actuators will in this situation typically end up on the specified limit, and overall control performance is experienced as poor.

If the automation system detects that an unreachable target has been reached, it will highlight the sensitivity button **(2)**, so the operator can make a decision to re-calibrate the trumpet.

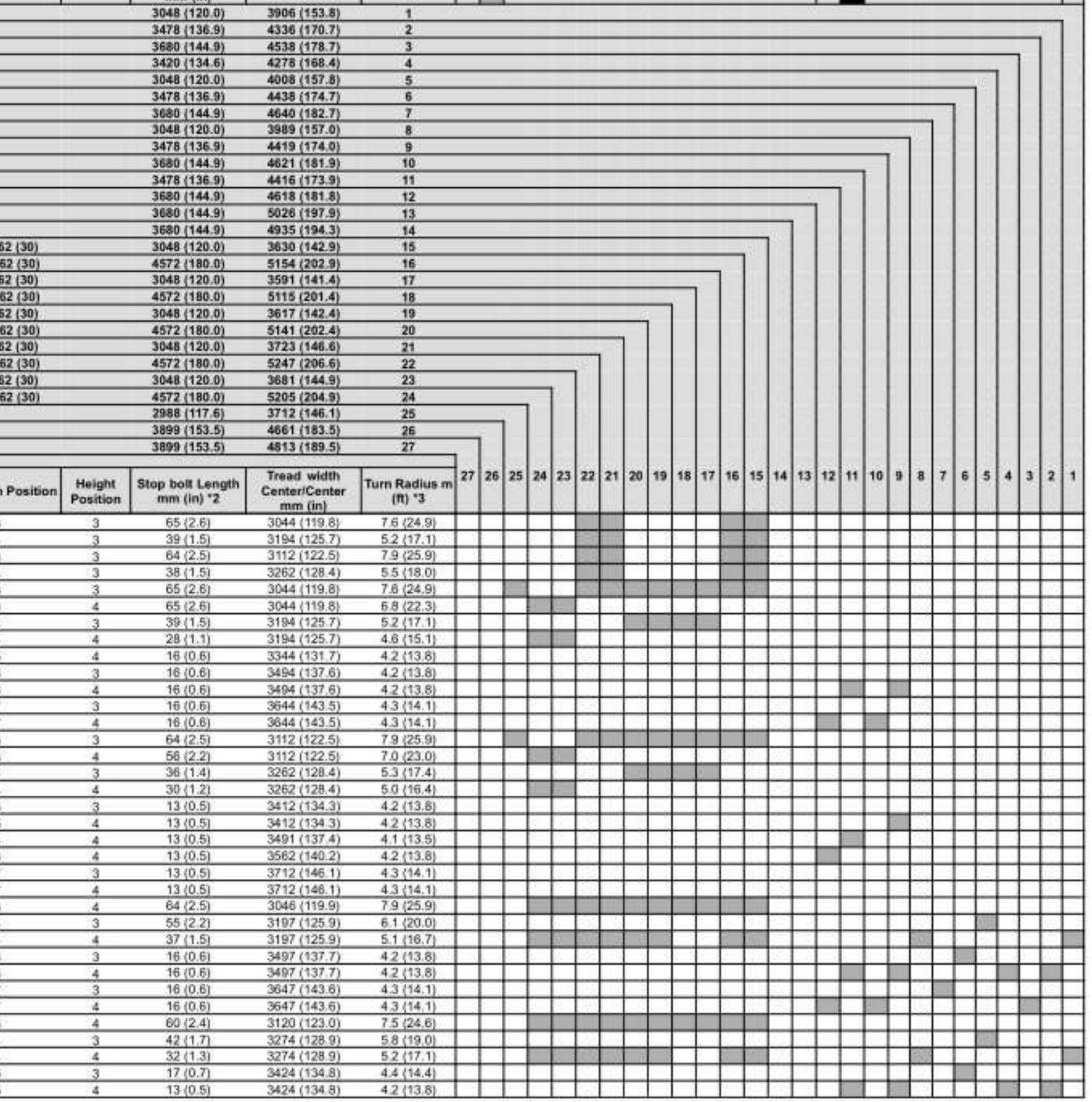


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Drive Tires/Tracks *1	Tire/Track Width mm (in)	Wheel Dished In mm (in)	Wheel Dished Out mm (in)	Axle Extension mm (in)	Duals/Rows mm (in)		Tread width Center/Center mm (in)	Overall Width mm (in)	
IF800/70R38 CFO 187A8 R1W	858 (33.6)	100 (3.9)					3048 (120.0)	3906 (153.8)	1
			115(4.5)				3478 (136.9)	4336 (170.7)	2
		100 (3.9)		316 (12.4)			3680 (144.9)	4538 (178.7)	3
			86 (3.4)				3420 (134.6)	4278 (168.4)	4
IF900/60R32 CFO 188A8 R1W	960 (37.8)	100 (3.9)					3048 (120.0)	4008 (157.8)	5
			115(4.5)				3478 (136.9)	4438 (174.7)	6
		100 (3.9)		316 (12.4)			3680 (144.9)	4640 (182.7)	7
IF900/65R32 CFO 191A8 R2	941 (37.0)	100 (3.9)					3048 (120.0)	3989 (157.0)	8
			115(4.5)				3478 (136.9)	4419 (174.0)	9
		100 (3.9)		316 (12.4)			3680 (144.9)	4621 (181.9)	10
LSW900/60R42 200D R1W	938 (36.9)		115(4.5)				3478 (136.9)	4416 (173.9)	11
		100 (3.9)		316 (12.4)			3680 (144.9)	4618 (181.8)	12
IF1250/50R32 CFO 201B R1W	1346 (53.0)	100 (3.9)		316 (12.4)			3680 (144.9)	5026 (197.9)	13
LSW1250/35R46 195A8 R2	1255 (49.4)	100 (3.9)		316 (12.4)			3680 (144.9)	4935 (194.3)	14
IF520/85R42 CFO 169A8 R1	577 (22.7)	365 (14.4)		265 (10.4)	Inner/762 (30)		3048 (120.0)	3630 (142.9)	15
IF520/85R42 CFO 169A8 R1W	582 (22.9)		381 (15.0)	265 (10.4)	Outer/762 (30)		4572 (180.0)	5154 (202.9)	16
VF520/85R42 CFO 177A8 R1W	543 (21.4)	365 (14.4)		265 (10.4)	Inner/762 (30)		3048 (120.0)	3591 (141.4)	17
			381 (15.0)	265 (10.4)	Outer/762 (30)		4572 (180.0)	5115 (201.4)	18
IF520/85R42 CFO 169A8/B R2	569 (22.4)	365 (14.4)		265 (10.4)	Inner/762 (30)		3048 (120.0)	3617 (142.4)	19
			381 (15.0)	265 (10.4)	Outer/762 (30)		4572 (180.0)	5141 (202.4)	20
620/70R42 166A8 R1W	675 (26.6)	365 (14.4)		265 (10.4)	Inner/762 (30)		3048 (120.0)	3723 (146.6)	21
			381 (15.0)	265 (10.4)	Outer/762 (30)		4572 (180.0)	5247 (206.6)	22
IF580/85R42 CFO 178A8 R1W	633 (24.9)	365 (14.4)		265 (10.4)	Inner/762 (30)		3048 (120.0)	3681 (144.9)	23
VF580/85R42 CFO 183A8 R1W	599 (23.6)		381 (15.0)	265 (10.4)	Outer/762 (30)		4572 (180.0)	5205 (204.9)	24
Susp Tracks (28.5") *4 (Aust Only)	724 (28.5)						2988 (117.6)	3712 (146.1)	25
Tracks (30" Wide)	762 (30.0)						3899 (153.5)	4661 (183.5)	26
Tracks (36" Wide)	914 (36.0)						3899 (153.5)	4813 (189.5)	27

Steering Tires *1	Tire Width mm (in)	Axle Type	Wheel Dished In mm (in)	Wheel Dished Out mm (in)	Axle Width Position	Height Position	Stop bolt Length mm (in) *2	Tread width Center/Center mm (in)	Turn Radius m (ft) *3
600/70R28 161A8 R1W (7250 & 8250 Only)	670 (26.4)	HDASA		65 (2.6)	3	3	65 (2.6)	3044 (119.8)	7.6 (24.9)
		HDASA		65 (2.6)	4	3	39 (1.5)	3194 (125.7)	5.2 (17.1)
		PRA	43 (1.7)		3	3	64 (2.5)	3112 (122.5)	7.9 (25.9)
		PRA	43 (1.7)		4	3	38 (1.5)	3262 (128.4)	5.5 (18.0)
VF600/70R28 CFO 173A8 R1W	651 (25.6)	HDASA		65 (2.6)	3	3	65 (2.6)	3044 (119.8)	7.6 (24.9)
		HDASA		65 (2.6)	3	4	65 (2.6)	3044 (119.8)	6.8 (22.3)
		HDASA		65 (2.6)	4	3	39 (1.5)	3194 (125.7)	5.2 (17.1)
		HDASA		65 (2.6)	4	4	28 (1.1)	3194 (125.7)	4.6 (15.1)
		HDASA		65 (2.6)	5	4	16 (0.6)	3344 (131.7)	4.2 (13.8)
		HDASA		65 (2.6)	6	3	16 (0.6)	3494 (137.6)	4.2 (13.8)
		HDASA		65 (2.6)	6	4	16 (0.6)	3494 (137.6)	4.2 (13.8)
		HDASA		65 (2.6)	7	3	16 (0.6)	3644 (143.5)	4.3 (14.1)
		HDASA		65 (2.6)	7	4	16 (0.6)	3644 (143.5)	4.3 (14.1)
		PRA	43 (1.7)		3	3	64 (2.5)	3112 (122.5)	7.9 (25.9)
		PRA	43 (1.7)		3	4	56 (2.2)	3112 (122.5)	7.0 (23.0)
		PRA	43 (1.7)		4	3	36 (1.4)	3262 (128.4)	5.3 (17.4)
		PRA	43 (1.7)		4	4	30 (1.2)	3262 (128.4)	5.0 (16.4)
		PRA	43 (1.7)		5	3	13 (0.5)	3412 (134.3)	4.2 (13.8)
		PRA	43 (1.7)		5	4	13 (0.5)	3412 (134.3)	4.2 (13.8)
		PRA		65 (2.6)	4	4	13 (0.5)	3491 (137.4)	4.1 (13.5)
		PRA	43 (1.7)		6	4	13 (0.5)	3562 (140.2)	4.2 (13.8)
		PRA	43 (1.7)		7	3	13 (0.5)	3712 (146.1)	4.3 (14.1)
		PRA	43 (1.7)		7	4	13 (0.5)	3712 (146.1)	4.3 (14.1)
VF620/70R26 CFO 173A8 R1W	620 (24.4)	HDASA		65 (2.6)	3	4	64 (2.5)	3046 (119.9)	7.9 (25.9)
		HDASA		65 (2.6)	4	3	55 (2.2)	3197 (125.9)	6.1 (20.0)
		HDASA		65 (2.6)	4	4	37 (1.5)	3197 (125.9)	5.1 (16.7)
		HDASA		65 (2.6)	6	3	16 (0.6)	3497 (137.7)	4.2 (13.8)
		HDASA		65 (2.6)	6	4	16 (0.6)	3497 (137.7)	4.2 (13.8)
		HDASA		65 (2.6)	7	3	16 (0.6)	3647 (143.6)	4.3 (14.1)
		HDASA		65 (2.6)	7	4	16 (0.6)	3647 (143.6)	4.3 (14.1)
		PRA	44 (1.7)		3	4	60 (2.4)	3120 (123.0)	7.5 (24.6)
		PRA	44 (1.7)		4	3	42 (1.7)	3274 (128.9)	5.8 (19.0)
		PRA	44 (1.7)		4	4	32 (1.3)	3274 (128.9)	5.2 (17.1)
		PRA	44 (1.7)		5	3	17 (0.7)	3424 (134.8)	4.4 (14.4)
		PRA	44 (1.7)		5	4	13 (0.5)	3424 (134.8)	4.2 (13.8)



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