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FARMALL® 50A
FARMALL® 60A
FARMALL® 70A
Tractor

OPERATOR'S MANUAL

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CASE IH AGRICULTURE

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2 - SAFETY INFORMATION

Personal safety

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

⚠ DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine or property damage.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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4 - OPERATING INSTRUCTIONS

STARTING THE UNIT

Starting the tractor

⚠ DANGER

Run-over hazard!
Start engine only from operator's seat. If you bypass the safety start switch, the engine can start with the transmission in gear and the machine will move. DO NOT short or connect across terminals of the starter solenoid. Failure to comply will result in death or serious injury.

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To start the engine:

1. Step onto the tractor from left-hand side only.
2. Sit on the operator's seat and fasten seat belt.
3. Make sure that both gear-shift levers and shuttle lever are in neutral.

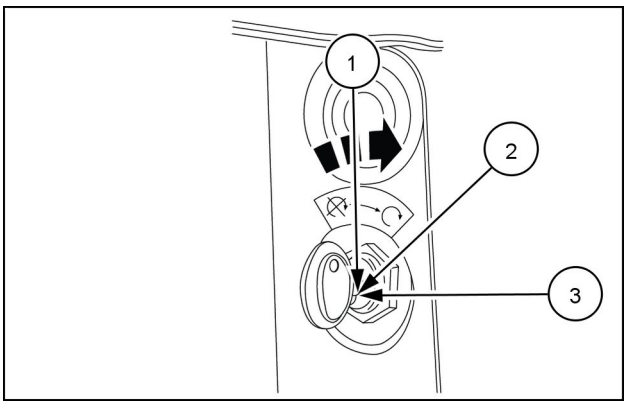
   NOTICE: *Neutral start switch prevents operation of the starting motor unless the gear levers are in the neutral position.*
4. Make sure the Power Take-Off (PTO) is disengaged.
5. Depress the clutch pedal.

   NOTICE: *Clutch switch prevents operation of the starting motor unless the clutch pedal is depressed.*
6. Turn the key switch to the start position. Release the key when the engine starts.

NOTICE: *Never push or tow the tractor to start the engine. Doing so may overstress the drive train.*

A three-position key-start switch is installed. The key-start switch positions are as follows:

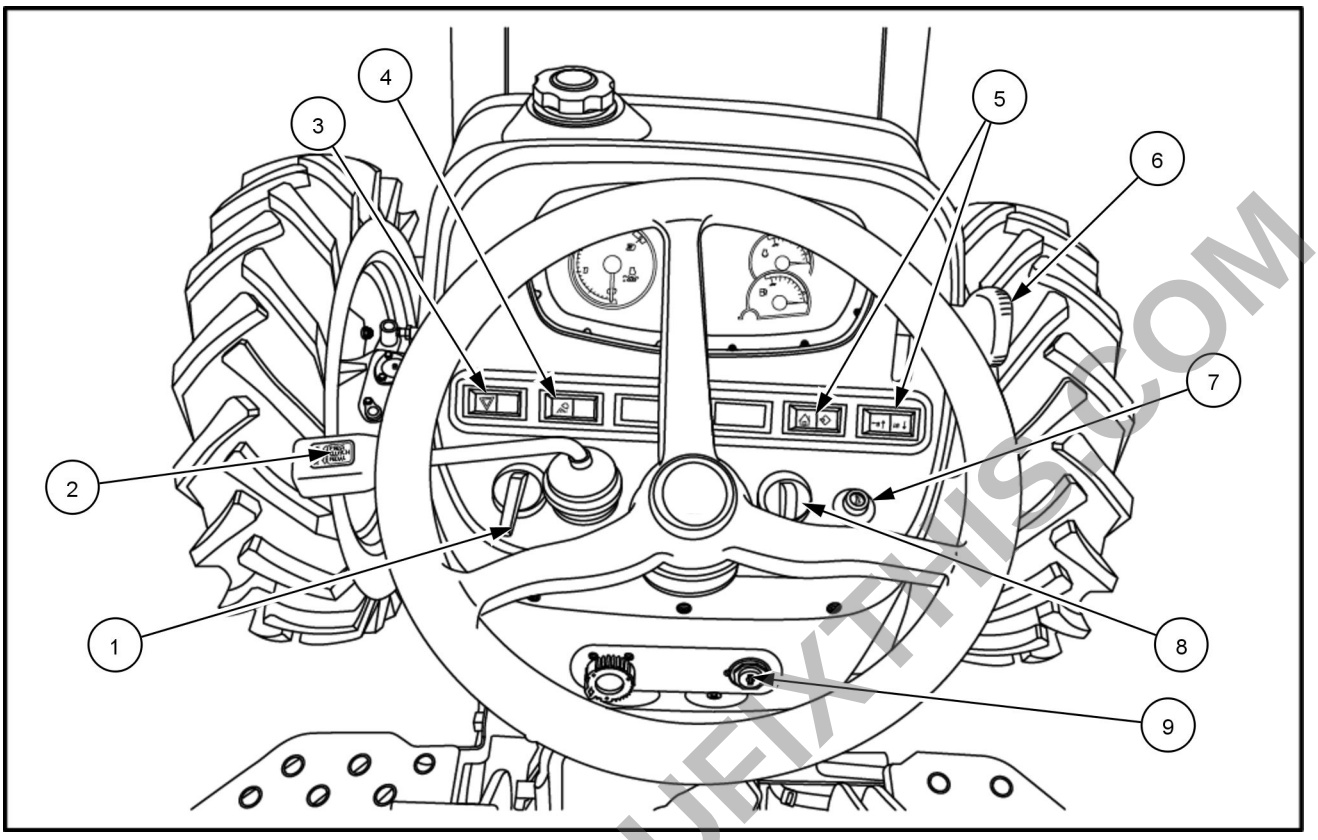
Position 1	Electrical equipment Off.
Position 2	Accessories on (head lamp, Instrument cluster, horn and gauges, brake lights, turn signals) engine 'ON'.
Position 3	Engine Start -- The full clockwise position activates the starter motor, to start the engine. Once the key is released, the switch returns to Position 2.



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Hand controls and switches



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Turn signal switch

The turn signal switch **(1)** activates the turn signals. Move the turn signal switch to the right to operate the right-hand turn indicator light and to the left to operate the left-hand turn indicator light.

NOTE: *The turn signal will operate only when the key switch is turned on.*

Shuttle shift lever

The shuttle shift lever **(2)** is used to change the direction of travel, between forward and reverse.

Central display navigation buttons

Navigate through the menus of the central Liquid Crystal Display (LCD) with the rocker switches **(5)**.
(A) and **(B)** see the image in the previous page.

Hand throttle lever

The hand throttle lever **(6)** should be used during field operation of the tractor.

Push the lever forward to increase the engine speed and rearward to reduce the engine speed.

Hazard switch

The hazard switch **(3)** activates the hazard flasher lights. Use the hazard flasher lights when traveling on public roads, day or night.

Head light switch

The head light switch **(4)** consists of four positions, (see head light switch positions, see **2**).

Horn Button

Press the horn button **(7)** to activate the horn.

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MAINTENANCE CHART

Frame - Maintenance chart

Service points	Cleaning	Drain fluid	Lubricate	Replace	Check	Adjust	Grease	Test	Change fluid	Bleed	Page no.
Every 10 hours of operation or daily											
Engine oil level	■										**7-13**
Engine cooling system	■										**7-13**
Steering reservoir oil level	■										**7-14**
After the first 50 hours of operation											
Clutch pedal free play	■					■					**7-15**
Brake pedal free play	■					■					**7-15**
Wheels and tires	■										**7-15**
Hydraulic oil filter		■									**7-15**
Every 50 hours											
Clutch pedal free play	■					■					**7-16**
Brake pedal free play	■					■					**7-16**
Wheels and tires	■					■					**7-17**
Transmission or hydraulics oil level	■										**7-17**
Front axle differential oil level	■										**7-18**
Front wheel hub oil level (4WD)	■										**7-18**
Air cleaner	■										**7-19**
Every 150 hours											
Battery electrolyte level	■										**7-20**
Every 300 hours											
Engine oil and filter		■									**7-20**
Engine air cleaner outer element					■						**7-22**
Hydraulic oil filter		■									**7-26**
Power Take-Off (PTO) clutch						■					**7-27**
Every 600 hours											
Transmission breather					■						**7-28**
Front wheel bearings - (2WD)							■				**7-28**
Fuel injectors - servicing								■			**7-29**
Fuel filter replacement		■									**7-30**
Hydraulic oil filter		■									**7-31**
Every 900 hours											
Air cleaner restriction indicator					■						**7-32**
Every 1200 hours											
Transmission or hydraulics oil level									■		**7-32**
Fuel tank cleaning					■						**7-33**
Engine coolant									■		**7-34**
Steering oil reservoir									■		**7-35**
Four-Wheel Drive (4WD) front axle differential oil.									■		**7-36**
Four-Wheel Drive (4WD) front axle hub oil									■		**7-36**

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9 - SPECIFICATIONS

General specification

Engine			
Type/Model		CRDI/VM R753IE4	
Emission Level		Tier 4	
Engine Net Horsepower	**39.5 kW** (**53.7 Hp**)	**44.8 kW** (**60.9 Hp**)	**52.2 kW** (**71.0 Hp**)
PTO Horsepower	**34.0 kW** (**46.2 Hp**)	**38.0 kW** (**51.7 Hp**)	**46.0 kW** (**62.5 Hp**)
Cylinders		3	
Bore		**94.0 mm** (**3.7 in**)	
Stroke		**107.0 mm** (**4.2 in**)	
Displacement		**2227.0 cm³** (**135.9 in³**)	
Compression Ratio		17.5:1	
Firing Order		1-3-2	
Aspiration		Turbocharged Intercooler	
Low Idle Speed		**900±100 RPM**	
Maximum no-load speed		**2750±50 RPM**	
Rated Speed		**2600 ±50 RPM**	
Tappet Clearance			
Intake/Exhaust (cold)		Hydraulically Adjustable	
Crankcase Oil Capacity		**6.3 L** (**6.7 US qt**)	
Capacities			
Fuel Tank		**65.0 L** (**17.2 US gal**)	
Cooling system		**10.0 L** (**10.6 US qt**)	
Engine Crankcase Oil Capacity		**6.3 L** (**6.7 US qt**)	
Rear Axle & Transmission		**23.0 L** (**6.1 US gal**) for 2WD **25.0 L** (**6.6 US gal**) for 4WD	
Front Axle (Four Wheel Drive)		**7.5 l** (**8.0 US qt**)	
Cooling system			
Type		Pressurized Liquid with Recirculating bypass	
Water Pump		Centrifugal	
Drive		poly V-Belt	
Belt Deflection		Auto Adjustable	
Fan Diameter		**415.0 mm** (**16.3 in**)	
Number of Fan Blades		8	
Thermostat:			
Start to Open		**80.0 °C** (**176.0 °F**)	
Fully Open		**95.0 °C** (**203.0 °F**)	
Radiator Cap		**90 kPa** (**13 psi**)	
Antifreeze		Ethylene Glycol	
System Capacity		**8.3 L** (**8.8 US qt**)	

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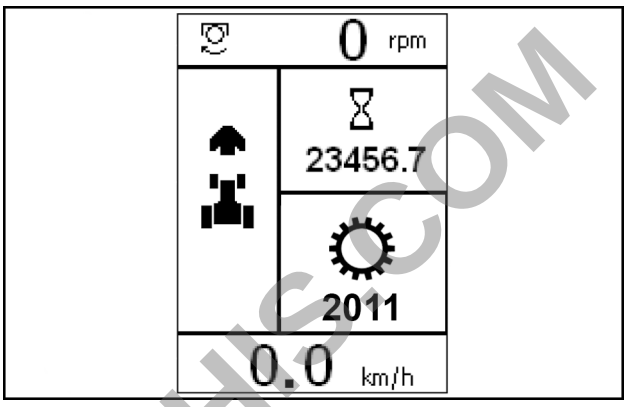
8 - TROUBLESHOOTING

SYMPTOM(S)

Viewing error codes

Error codes transmission

The tractor's electronic control units are able to detect operating faults or errors occurring in key areas such as the engine, gearbox, electric systems.
Should a malfunction or error occur, the relevant symbol and error code will appear in the display.
This display may be accompanied by the amber or red warning lights on the control panel coming on and by an audible warning, depending on the severity of the fault. Contact your CASE IH authorized dealer's specialized personnel where envisaged.



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Engine - Troubleshooting

Problem	Possible Cause	Correction
During the ignition phase the control board and the engine do not start.	Flat battery	Recharge or replace battery
	Blown fuse	Replace fuse
	The electric cables are disconnected or they do not guarantee continuity	Check the electric connections
	Failure of engine revolution sensor	Replace the sensor Apply to a service workshop
The engine does not start	Presence of air in the fuel supply circuit	Carry out bleeding (See “Fuel supply circuit bleeding”)
	Dirty or faulty injectors	Replace the injectors Apply to a service workshop
	Faulty fuel pressure regulation valve	Replace the valve Apply to a service workshop
	Failure of the start control	Replace the start control Apply to a service workshop
	water and/or impurities in the fuel	Apply to a service workshop
	Clogged fuel filter	Replace filter (See “Fuel filter replacement.”)
The starter motor runs idle	Electromagnet failure	Check the starter motor Apply to a service workshop
The starter motor is not running	Flat battery	Recharge or replace battery
	Interrupted electric connection	Check the electric connections
	Worn brushes	Replace the worn brushes Apply to a service workshop
The engine stops after ignition	Presence of air in the fuel supply circuit	Carry out bleeding (See “Fuel supply circuit bleeding”)
	Clogged fuel filter	Replace filter (See “Fuel filter replacement.”)
	Injection pump malfunction	Apply to a service workshop
	Faulty fuel pressure regulation valve	Replace the valve Apply to a service workshop
	Presence of air in the fuel supply circuit	Carry out bleeding (See “Fuel supply circuit bleeding”)
	Water and/or impurities in the fuel	Apply to a service workshop

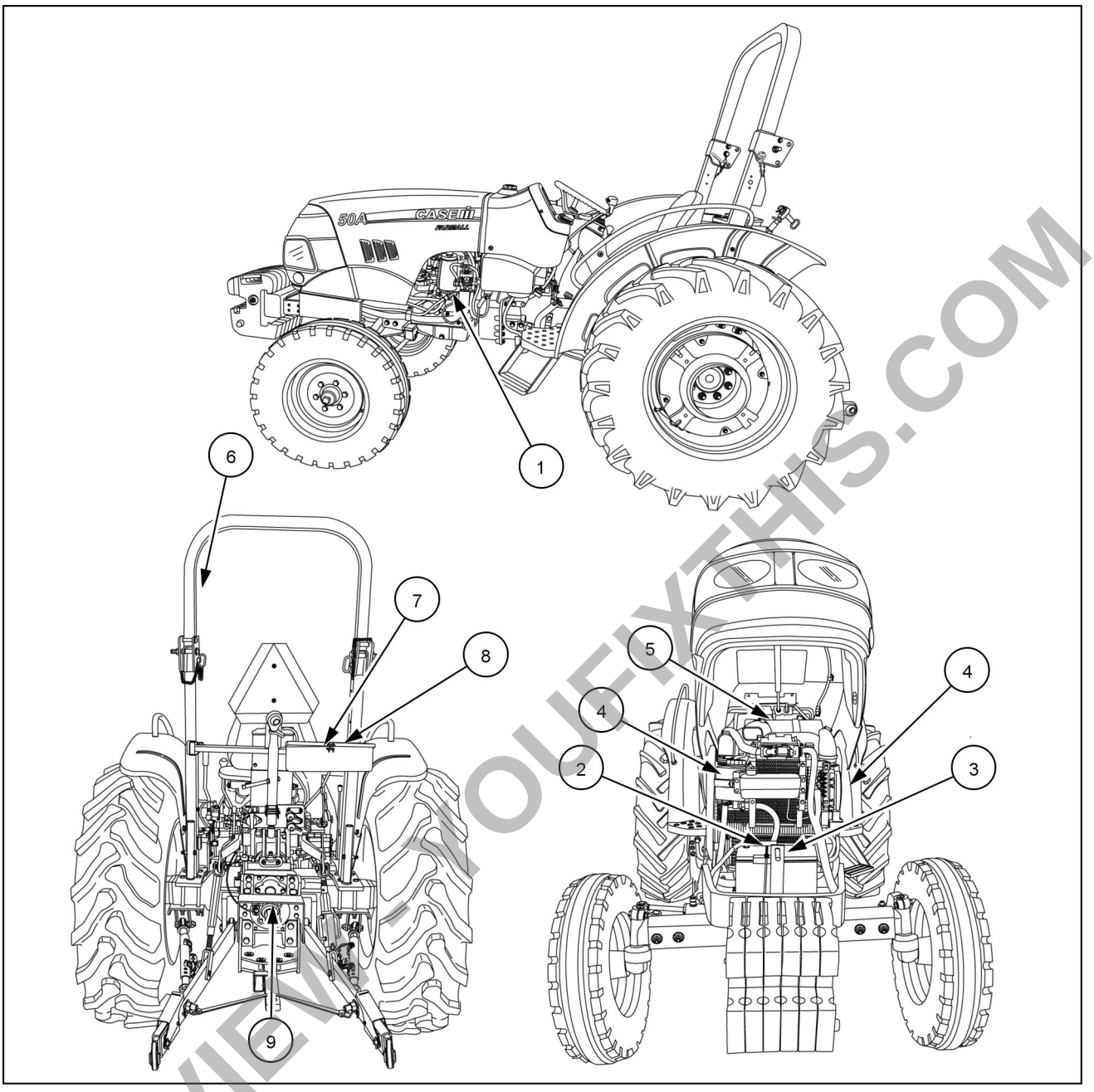
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Fault code of digital instrument

FAULT CODE	SYMBOL	Function	Acoustic signal	Warning light on
3786		Automatic regeneration of the diesel particulate filter (DPF) inhibited; manual regeneration starting only.		YES
3787		Regeneration of the diesel particulate filter (DPF) inhibited; contact your dealer immediately		YES
14200		Battery isolator switch on at key-on for more then 30 seconds	NO	YES
14015		Supply voltage at **5 V** too high	NO	YES
14016		Supply voltage at **5 V** too low	NO	YES
14021		Cranking line shorted to **+12 V**	NO	YES
14022		Cranking line shorted to GND	NO	YES
14051		Fuel sensor short to Vcc or open circuit	NO	YES
14052		Fuel sensor short to GND	NO	YES
14058		Seat switch closed for 25 hours	YES	YES
14093		Seat switch short to Vcc or open circuit	YES	YES
14094		Seat switch shorted to GND	YES	YES
14109		Electronic lift present but not configured	NO	YES
14900		Transmission module missing	NO	YES
14901		Engine module missing	NO	YES

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NOTE: *The tread settings shown are approximate. The front wheel discs are off-set, relative to the center line of the rim. The tread settings in the table are with the dished side of the wheel nearest the axle hub. If the front wheels are reversed on the hubs the tread settings shown in the table will be increased by approximately* ***25 mm*** *(****0.98 in****).*

8. Tighten the nuts on the axle extension securing bolts to **118 N·m** (**87 lb ft**)
9. With both front wheels parallel, install the locating bolt **(2)** in the nearest aligning notch in the tie rod. Tighten the nut on the locating bolt to **24.5 N·m** (**18 lb ft**)

Tractor model	Front wheel bolt torque
	320.0 N·m (**236.0 lb ft**)

NOTE: *Re-check all torque settings after* ***50 h*** *of operation.*

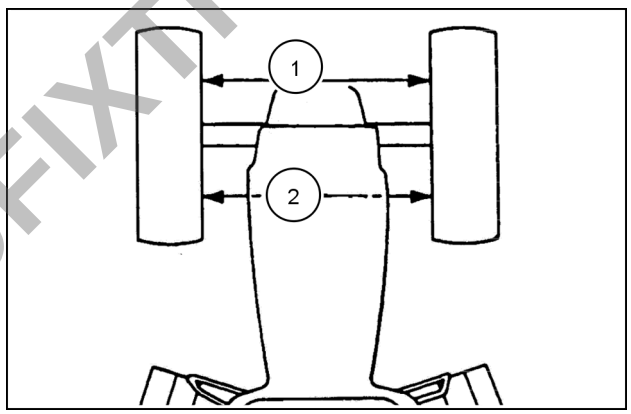
Front wheel toe-in

After resetting the track width, the front wheel toe-in may require adjustment. For correct operation, the front wheels should be parallel or toe-in slightly.

NOTICE: *Incorrect toe-in setting may result in abnormal wear of front tires.*

To measure the toe in proceed as follows

1. Measure the distance **(1)** between the wheel rims at hub height at the front of the wheels. Rotate both front wheels by **180 °** and check the measurements again, this time at the rear of the wheels **(2)**
2. This will eliminate wheel rim run-out errors. The correct toe-in setting is **0-5 mm**, i.e., the measurement taken at the front of the rims should be the same as the rear or be smaller by up to **5 mm** (**0.20 in**)



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