FARMALL 40
FARMALL 45
FARMALL 50

Tractors

SERVICE MANUAL

87473193

CASE IH AGRICULTURE

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The following pages are the collation of the contents pages from each section and chapter of the Farmall 40, Farmall 45, Farmall 50 Repair manual. Complete Repair part # 87473193.

The sections used through out all Case IH product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the Farmall 40, Farmall 45, Farmall 50 Tractors.

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SECTION 00 - GENERAL INFORMATION

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Chapter 1 - General Information

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Chapter 1 - Engine

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PTO INDICATOR LIGHT CIRCUIT (HST MODEL) TROUBLESHOOTING

CONDITION	POSSIBLE CAUSE	REMEDY
PTO light will not illuminate	Blown, #5, 7.5-amp instrument panel fuse	Inspect and replace fuse as needed
	Blown, #2, 10-amp instrument panel fuse	Inspect and replace fuse as needed
	PTO indicator bulb faulty	Inspect bulb and replace as necessary
	Faulty wiring or ground terminal	Inspect tractor wiring harness and ground terminals for damage, corrosion, loose connectors, or short circuits. Repair or replace as necessary.
	Faulty main PTO switch	Test switch and replace as necessary
	Faulty PTO safety start relay	Test relay and replace as necessary
	Malfunctioning Instrument Panel	Test instrument panel and replace as necessary
PTO indicator light remains illuminated	Main PTO switch improperly adjusted	Check switch adjustment
	Defective PTO safety start relay	Test relay and replace as necessary
	Faulty wiring or ground terminal	Inspect tractor wiring harness and ground terminals for damage, corrosion, loose connectors, or short circuits. Repair or replace as necessary.

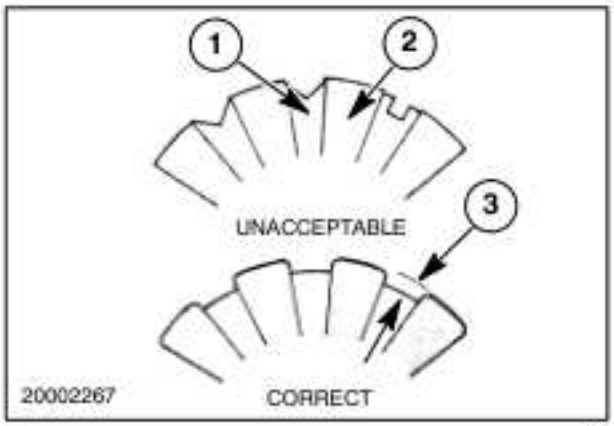
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CRUISE CONTROL CIRCUIT (HST TRANSMISSION) TROUBLESHOOTING

CONDITION	POSSIBLE CAUSE	REMEDY
Cruise will not activate	Blown #5, 7.5-amp fuse	Inspect and replace the 7.5-amp fuse as necessary
	Blown #2, 10-amp fuse	Inspect and replace the 10-amp fuse as necessary
	Defective cruise control switch	Test switch and replace as necessary
	Defective cruise control relay	Test cruise control relay and replace as necessary.
	Defective or stuck brake release switch	Test brake release switch. Replace as necessary.
Cruise control activates, but does not remain in "ON" position	Defective cruise control switch	Test cruise switch and replace as necessary.
	Defective cruise control diode	Test diode and replace as necessary
	Defective cruise control relay	Test cruise control relay and replace as necessary
Cruise control magnet will not hold hydrostatic transmission linkage in position	Cruise control magnet bracket is loose or improperly adjusted	Adjust or tighten cruise control magnet as necessary.
	Defective cruise control magnet	Test cruise control magnet and replace as necessary.
	Excessive HST return spring pressure	Reduce spring pressure

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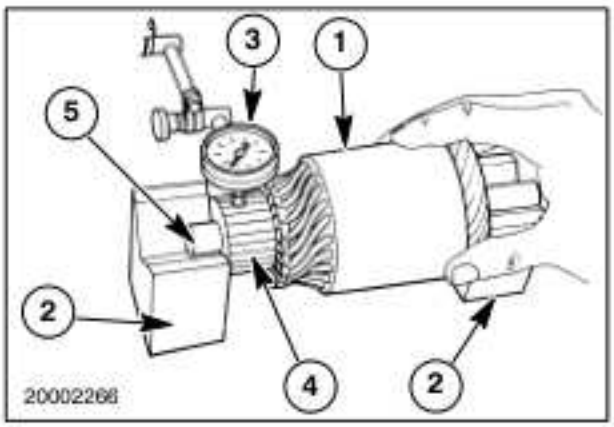
10. Inspect the mica insulating valleys, 1, between the commutator contacts, 2, for uneven wear. Use a suitable measuring device to check the distance, 3, between the top of the contact to the bottom of the insulating valley. The distance should be 0.5 – 0.8 mm (0.020 – 0.031 in.). If the distance is not within these specifications or there is uneven wear, the insulating valleys may be undercut with a suitable file.



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NOTE: *If not previously removed, the armature bearings will need to be removed for this test.*

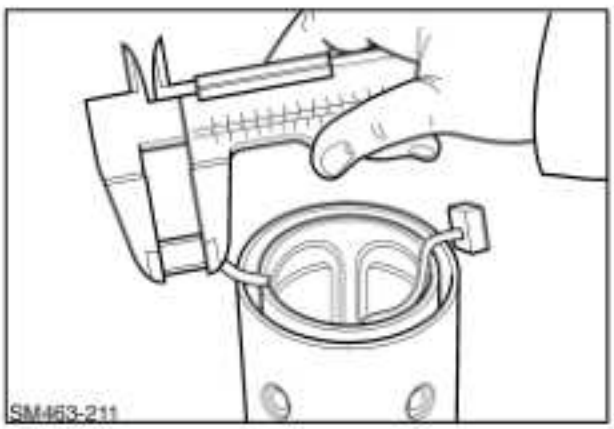
11. Place the armature, 1, in a set of precision V-blocks, 2, and use a dial indicator, 3, to measure commutator, 4, runout and shaft, 5, runout. Commutator runout should not be more than 0.2 mm (0.008 in.). Shaft runout should not be more than 0.05 mm (0.002 in.).



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NOTE: *When measuring the brush length, remove the brush from the brush support and measure the middle portion of the brush.*

12. Use a suitable measuring device to measure the length of the four armature brushes. Compare the measurement of each brush with brush length specifications. If the brush is not within specifications or is damaged in any way, replace the brushes.



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DECALS - FARMALL 40, 45 with HST

If safety or instruction decals become damaged or illegible, new decals should be obtained from your Case IH Dealer and placed at their original positions.

SAFETY DECALS



WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



WARNING: Before Starting and Operating
PART NO: 86401125
LOCATION: LH Side of Console/Cover Below Dash



WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both sides of Radiator Shroud



WARNING: To Jump Start
PART NO: 86402367
LOCATION: Coolant overflow tank



DANGER: ROPS
PART NO: 86543805
LOCATION: Top under side of ROPS

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