SR270B / SV340B
Tier 4B (final) / Stage IV
B Series Skid Steer Loader

PIN NJM453496 and after

TR340B / TV450B
Tier 4B (final) / Stage IV
B Series Compact Track Loader

PIN NJM453496 and after

SERVICE MANUAL

Part number 51509630
English
October 2020

CASE CONSTRUCTION

MidWestTech | Case SR270B, SV340B, TR340B, TV450B Tier 4B Stage IV Skid Steer Loader Service Manual | Publication 51509630

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Wiring harnesses - Electrical schematic sheet 45 SH45 - MULTIFUNCTION JUMPER

SR270B STAGE IV [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
SR270B TIER 4B (FINAL) [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF)) --- (DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
SV340B STAGE IV [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
SV340B TIER 4B (FINAL) [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF)) --- (DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
TR340B STAGE IV [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
TR340B TIER 4B (FINAL) [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
TV450B STAGE IV [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))
TV450B TIER 4B (FINAL) [NJM453496 -]	(DC-Drive Control Type = EH Controls) AND (HA-Hydraulic Aux = Enhanced High Flow (EHF))

Type	Component	Connector / Link
Relay	**K-004** - MF #4 POWER RELAY (Relay)	**X-323D** - RELAY [K-004] (87697770)
Connector		**X-323B** - CHASSIS CONNECTION (87382923)
Connector		**X-323C** - FE CONNECTION (87382922)
Connector		**X-323D** - RELAY [K-004] (87697770)

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Use the electronic service tool to access the fault code screen. Fault code **5602 – Loader Auxiliary Valve (Directional) Loader Auxiliary Solenoid(s) Shorted To Ground** should no longer be active. Fault code **5603 – Loader Auxiliary Valve (Directional) Solenoids Return Open Circuit** is now active.

A. Fault code **5602 – Loader Auxiliary Valve (Directional) Loader Auxiliary Solenoid(s) Shorted To Ground** is no longer active. Fault code **5603 – Loader Auxiliary Valve (Directional) Solenoids Return Open Circuit** is now active. Replace both solenoids and retest. Return to step **1** to confirm elimination of the fault.

B. Fault code **5602 – Loader Auxiliary Valve (Directional) Loader Auxiliary Solenoid(s) Shorted To Ground** is active. Fault code **5603 – Loader Auxiliary Valve (Directional) Solenoids Return Open Circuit** did not become active. Go to step **4**.

4. Measure the resistance of the solenoid wire to chassis ground.

Turn the ignition switch OFF.

Disconnect UCM connector **X-CN1A** and both solenoid connectors, **X-029** and **X-024**.

Measure the resistance between **X-CN1A (Receptacle) pin 24** and chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

Measure the resistance between **X-CN1A** pin 22 and chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

Measure the resistance between **X-CN1A** pin 22 and **X-CN1A (Receptacle) pin 24**. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

Leave UCM connector **X-CN1A** disconnected.

Disconnect UCM connector **X-CN1B**.

Measure the resistance between **X-CN1B** pin 33 and chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

Measure the resistance between **X-CN1B** pin 33 and **X-CN1A** pin 22. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

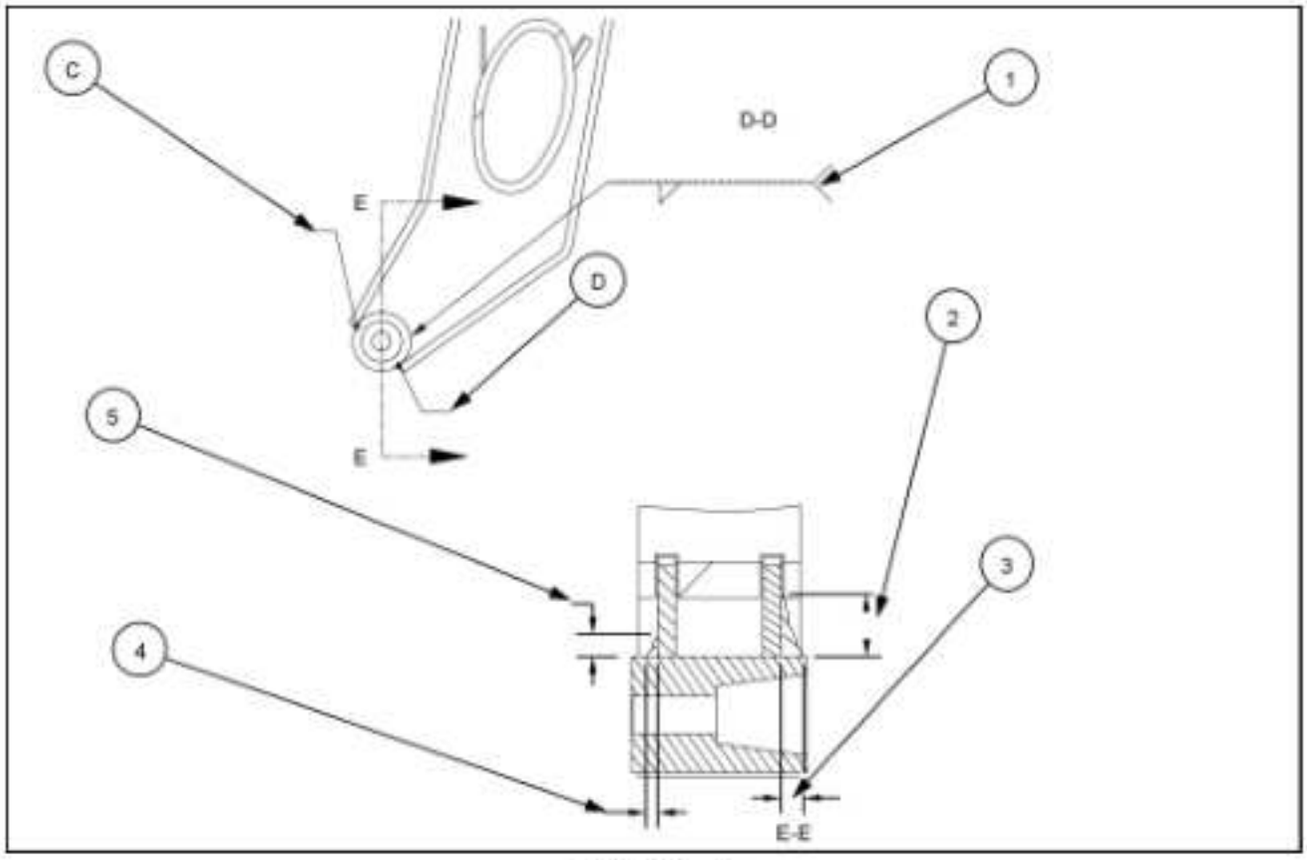
Measure the resistance between **X-CN1B** pin 33 and **X-CN1A (Receptacle) pin 24**. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

A. All resistance measurements are greater than **20,000 Ω**. Temporarily replace the UCM and retest. Return to step **1** to confirm elimination of the fault.

B. One or more resistance measurements are less than **20,000 Ω**. There is a short circuit in the wiring. Repair or replace the harness as required. Return to step **1** to confirm elimination of the fault.

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13. Weld the new boss in place. Refer to the weld information in image **17**.



RAIL12SSL0493TA 17

Weld information

Weld information

(1) = 2x multi-pass weld from **(C)** to **(D)**. Final total weld is **12 mm** (**15/32 in**) high, extending out **36 mm** (**1 7/16 in**) from the boss.	
(2) = **34 mm** (**1 11/32 in**) weld	**(4)** = **6 mm** (**15/64 in**)
(3) = **12 mm** (**15/32 in**)	**(5)** = **12 mm** (**15/32 in**)

14. After the parts have cooled, prepare and paint as required.

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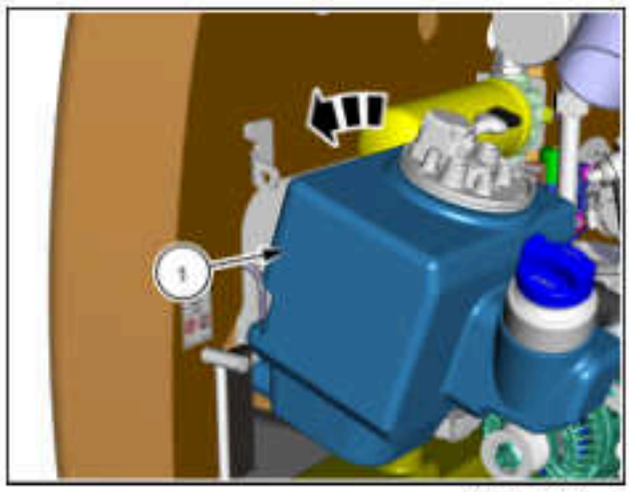
Diesel Exhaust Fluid (DEF)/AdBlue®/ARLA tank - Install

Prior operation:
Diesel Exhaust Fluid (DEF)/AdBlue®/ARLA tank - Remove (10.500)

NOTE: *Torque all worm gear hose clamps to* ***3.0 – 4.0 N·m*** *(****2.0 – 3.0 lb ft****).*

1. Install the Diesel Exhaust Fluid (DEF) tank **(1)** into the chassis by sliding the bottom-side of the tank into the chassis and rotating the topside in from the engine compartment.

NOTE: *The DEF tank is a tight fit, some scuffing can occur during the installation into the chassis.*



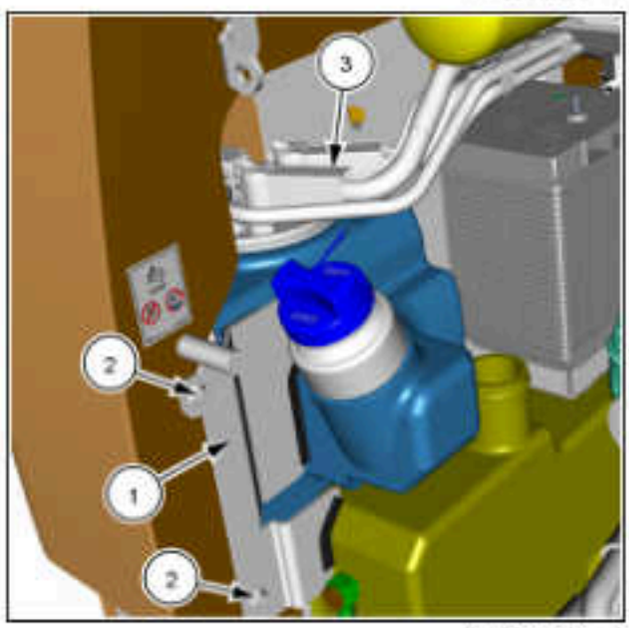
RAPH175SL009AOA 1

2. Install the DEF lines **(3)** to the DEF tank.

NOTE: *See Figure* ***3*** *for DEF tank line connections.*

3. Install the retaining bracket **(1)** to the chassis and secure with the bolts **(2)**.

NOTE: *Depending upon machine configuration, the same bolts* ***(2)*** *may be used to secure the fuel filter bracket.*



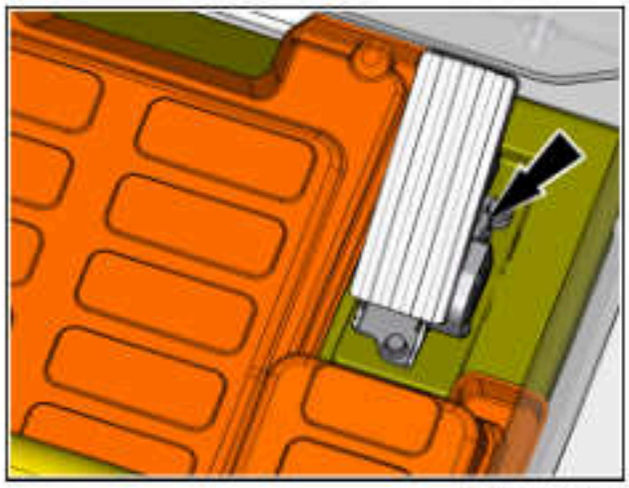
RAPH175SL009JOA 2

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Throttle pedal - Remove

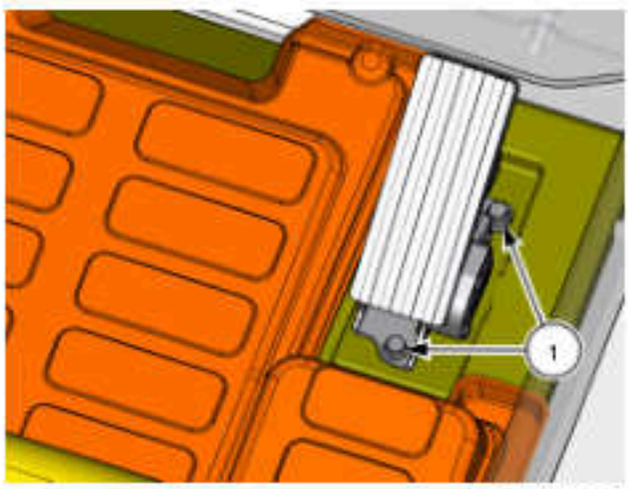
Prior operation:
Battery - Disconnect (55.302)

1. Disconnect the electrical harness from the foot pedal assembly.



RAPH175SLE176DA 1

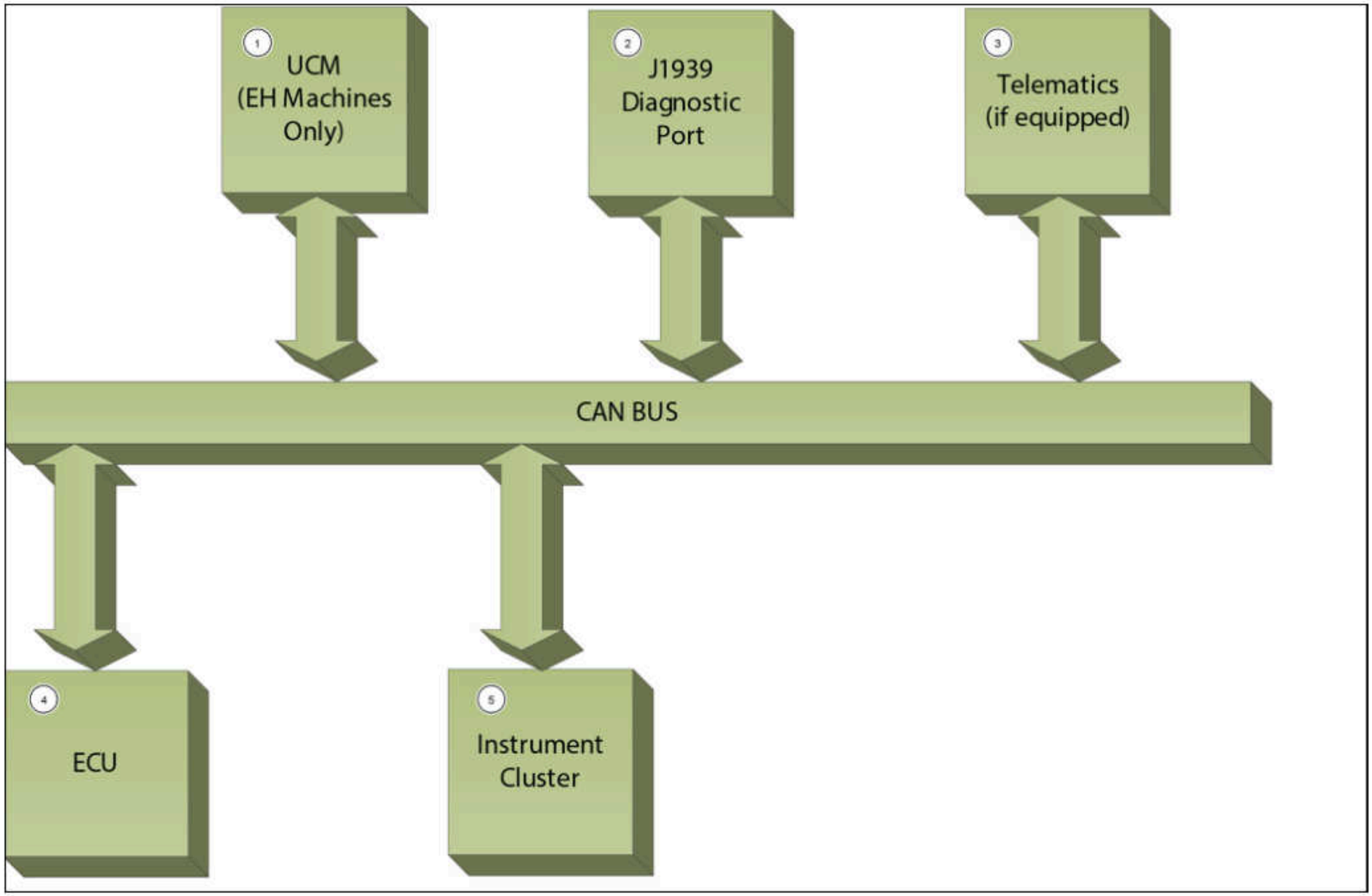
2. Remove the two bolts **(1)** that secure the foot pedal assembly to the floor plate.
3. Remove the foot pedal assembly from the machine.



RAPH175SLE176DA 2

Next operation:
Throttle pedal - Install (55.525)

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