

TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX__K225001—)

Engine Remove and Install

Engine Remove and Install

-: Specifications

SPECIFICATIONS	
Cooling System Capacity	2.7 L 2.9 qt.
Canopy Support Weight (approximate)	23 kg 50 lb.
Engine Weight (approximate)	140 kg 309 lb.
Engine Mount Cap Screw Torque	88 N·m 65 lb.-ft.

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
2. Disconnect battery negative (-) cable.
3. Drain cooling system. [See Drain Cooling System](#) . (Operator's Manual.)

Item	Measurement	Specification
Cooling System	Capacity	2.7 L 2.9 qt.

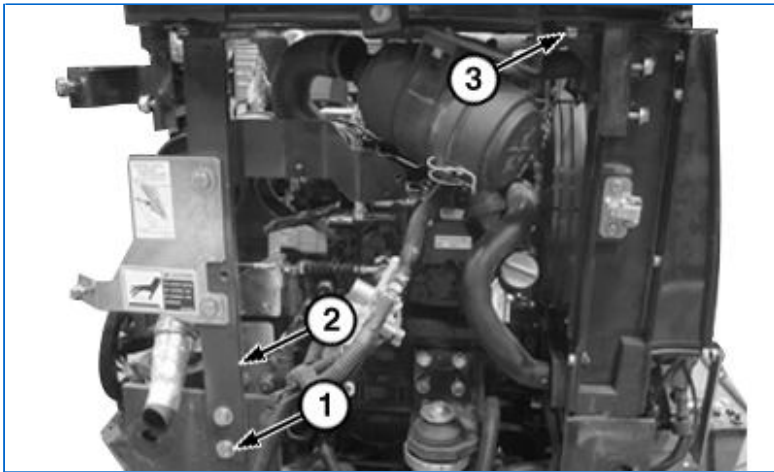
4. Remove canopy. [See Canopy Remove and Install](#) . (Group 1800.)
5. Remove seat. [See Seat Remove and Install](#) . (Group 1821.)
6. Remove seat platform. [See Seat Platform Remove and Install](#) . (Group 1821.)
7. Remove counterweight. [See Counterweight Remove and Install](#) . (Group 1749.)
8. Remove primary fuel filter and water separator housing. [See Primary Fuel Filter and Water Separator Housing Remove and Install](#) . (Group 0560.)
9. Remove final fuel filter housing. [See Final Fuel Filter Housing Remove and Install](#) . (Group 0560.)
10. Remove fan and fan guard. [See Fan Remove and Install](#) . (Group 0510.)
11. Remove air cleaner assembly. [See Air Cleaner Assembly Remove and Install](#) . (Group 0520.)

12.



CAUTION:

Avoid possible crushing injury from heavy component. Use appropriate lifting device.



TX1190615A-UN: Canopy Support Assembly

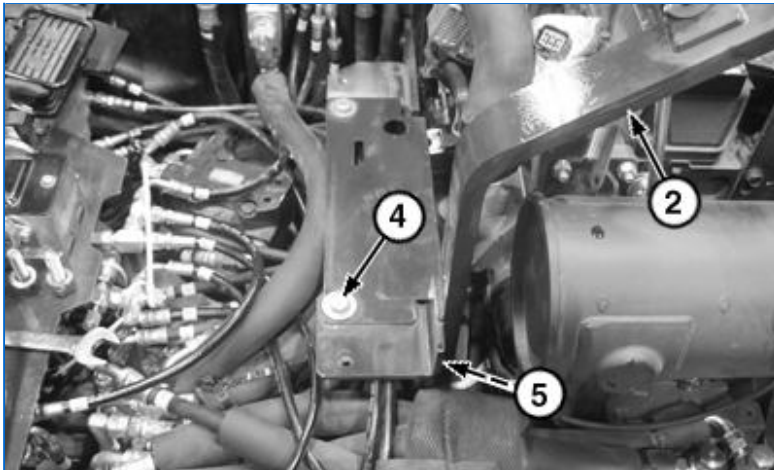
LEGEND:

- 1 - Cap Screw (2 used)
- 2 - Canopy Support Assembly
- 3 - Cap Screw (2 used)

Using appropriate lifting device, support canopy support assembly (2).

Item	Measurement	Specification
Canopy Support Assembly	Weight (approximate)	23 kg 50 lb.

13. Remove cap screws (1 and 3).



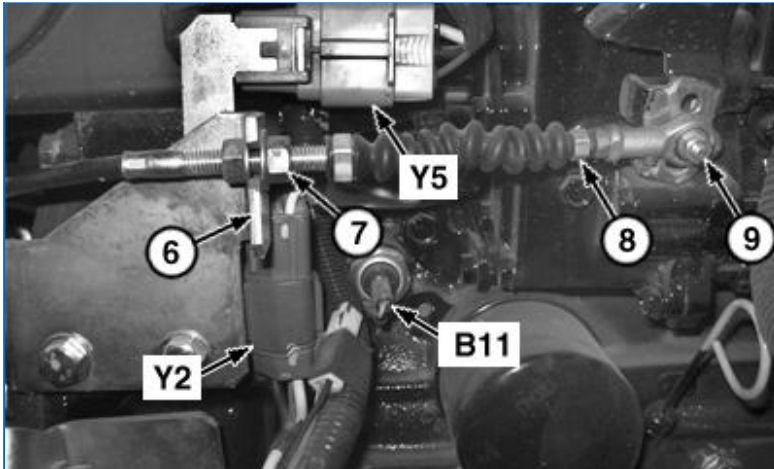
14. TX1190616A-UN: Canopy Support Assembly

LEGEND:

- 2 - Canopy Support Assembly
- 4 - Cap Screw (2 used)
- 5 - Cap Screw (2 used)

Remove cap screws (4 and 5) and canopy support assembly.

15. Remove hydraulic pump. [See Hydraulic Pump 1, 2, and 3 Remove and Install](#) . (Group 3360.)



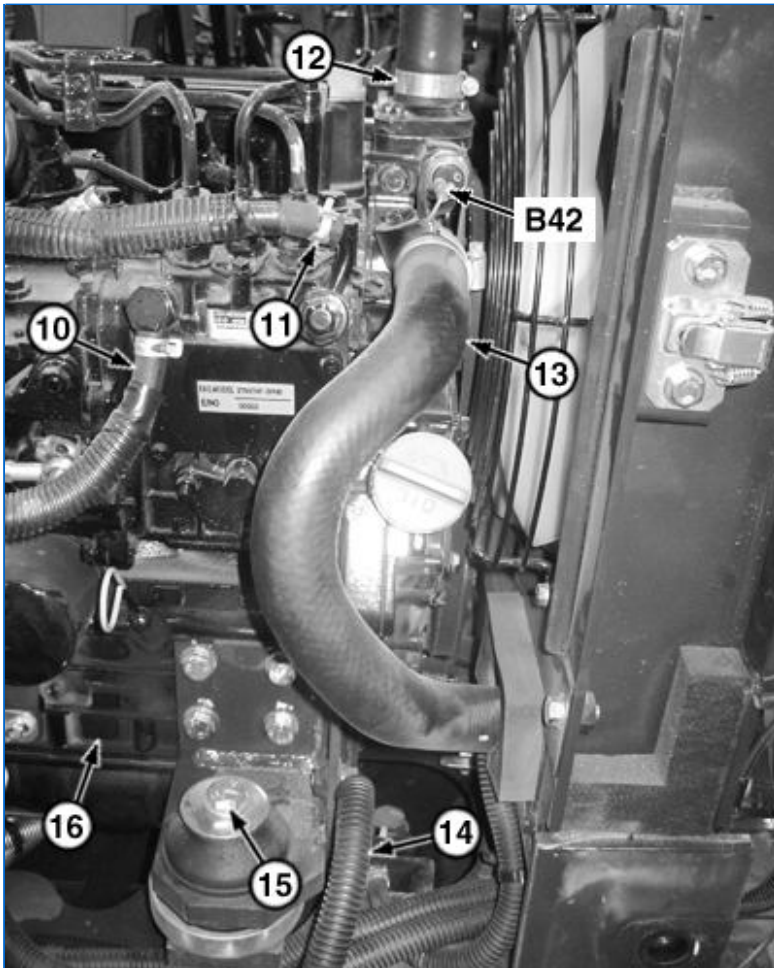
16. TX1190623A-UN: Throttle Cable

LEGEND:

- 6 - Bracket
- 7 - Nut
- 8 - Throttle Cable
- 9 - Nut
- B11 - Engine Oil Pressure Switch
- Y2 - Fuel Shutoff Solenoid
- Y5 - High-Altitude Solenoid

Remove nut (9) and disconnect throttle cable (8).

17. Apply alignment marks and loosen nut (7). Slide throttle cable out of bracket (6).
 18. Install identification tags and disconnect engine oil pressure switch (B11).
 19. Install identification tags and disconnect fuel shutoff solenoid (Y2).
 20. Install identification tags and disconnect high-altitude solenoid (Y5).
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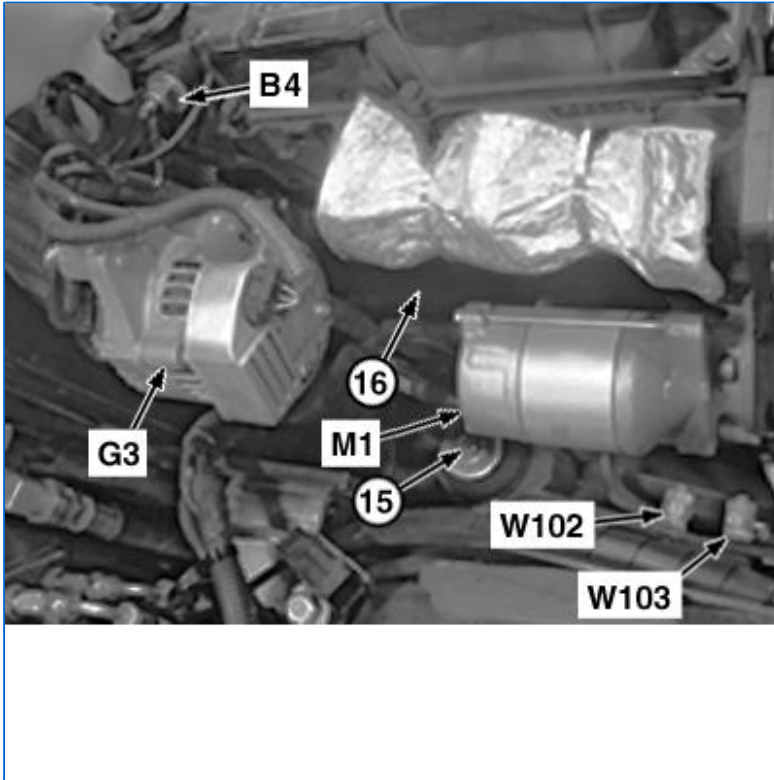
21. TX1190624A-UN: Engine

LEGEND:

- 10 - Final Fuel Filter-to-Injector Pump Hose (supply)
- 11 - Injector Pump-to-Final Fuel Filter Hose (return)
- 12 - Coolant Pump-to-Radiator Hose (upper)
- 13 - Radiator-to-Coolant Pump Hose (lower)
- 14 - Cap Screw
- 15 - Engine Mount Cap Screw (4 used)
- 16 - Engine
- B42 - Engine Overheat Switch

Install identification tags and disconnect fuel hoses (10 and 11). Close all openings using caps and plugs.

- 22. Install identification tags and disconnect coolant hoses (12 and 13). Close all openings using caps and plugs.
 - 23. Install identification tags and disconnect engine overheat switch (B42).
 - 24. Remove cap screw (14).
-



25. TX1190626A-UN: Engine

LEGEND:

- 15 - Engine Mount Cap Screw (4 used)
- 16 - Engine
- B4 - Engine Coolant Temperature Sensor
- G3 - Alternator
- M1 - Starter Motor
- W102 - Main Harness Ground
- W103 - Floor Harness Ground

Install identification tags and disconnect engine coolant temperature sensor (B4).

- 26. Install identification tags and disconnect alternator (G3).
- 27. Install identification tags and disconnect starter motor (M1).
- 28. Install identification tags and disconnect harness grounds (W102 and W103).
- 29. _____

 **CAUTION:**

Avoid possible crushing injury from heavy component. Use appropriate lifting device.

Using appropriate lifting device, support engine.

Item	Measurement	Specification
Engine	Weight (approximate)	140 kg 309 lb.

- 30. Remove engine mount cap screws (15) and remove engine.

- 31. Inspect and replace parts as necessary.

INSTALLATION

Installation is reverse of removal procedure.

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Avoid possible crushing injury from heavy component. Use appropriate lifting device.

Using appropriate lifting device, install engine and engine mount cap screws. Tighten to specification.

Item	Measurement	Specification
Engine	Weight (approximate)	140 kg 309 lb.

Item	Measurement	Specification
Engine Mount Cap Screw	Torque	88 N·m 65 lb.-ft.

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Avoid possible crushing injury from heavy component. Use appropriate lifting device.

Using appropriate lifting device, install canopy support assembly.

Item	Measurement	Specification
Canopy Support	Weight (approximate)	23 kg 50 lb.

- Fill cooling system. [See Cooling System Fill and Deaeration Procedure](#) . (Operator's Manual.)

Item	Measurement	Specification
Cooling System	Capacity	2.7 L 2.9 qt.

TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX_ _K225001—) Radiator Remove and Install

Radiator Remove and Install

-: Specifications

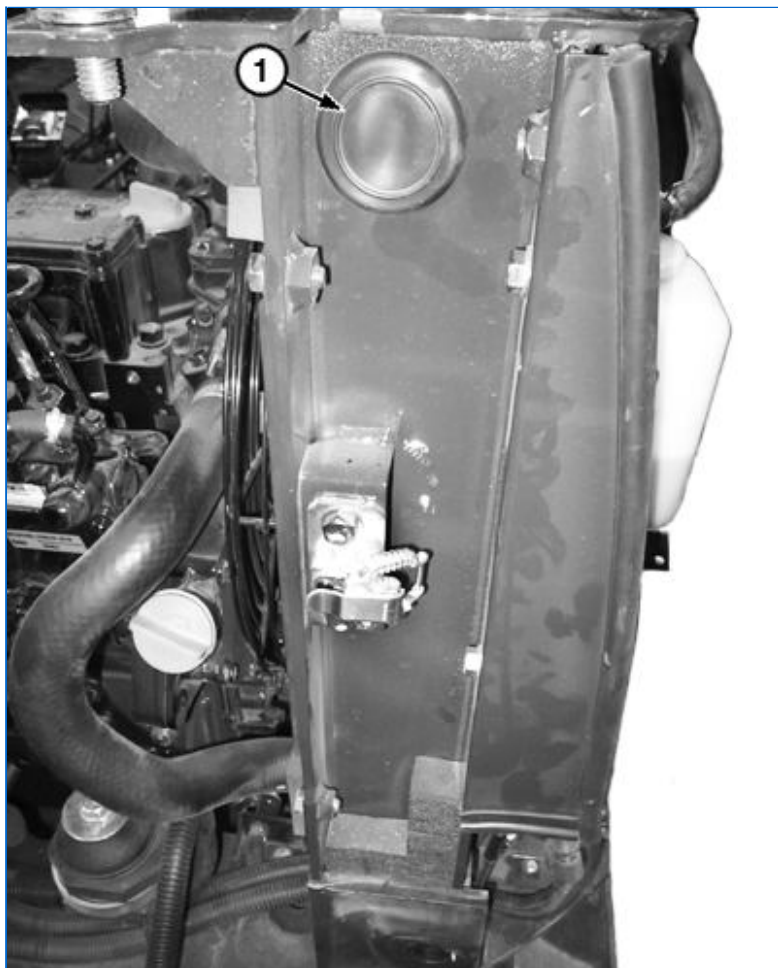
SPECIFICATIONS	
Cooling System Capacity	2.7 L 2.9 qt.

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
2. Drain cooling system. [See Drain Cooling System](#) . (Operator's Manual.)

Item	Measurement	Specification
Cooling System	Capacity	2.7 L 2.9 qt.

3. Remove counterweight. [See Counterweight Remove and Install](#) . (Group 1749.)



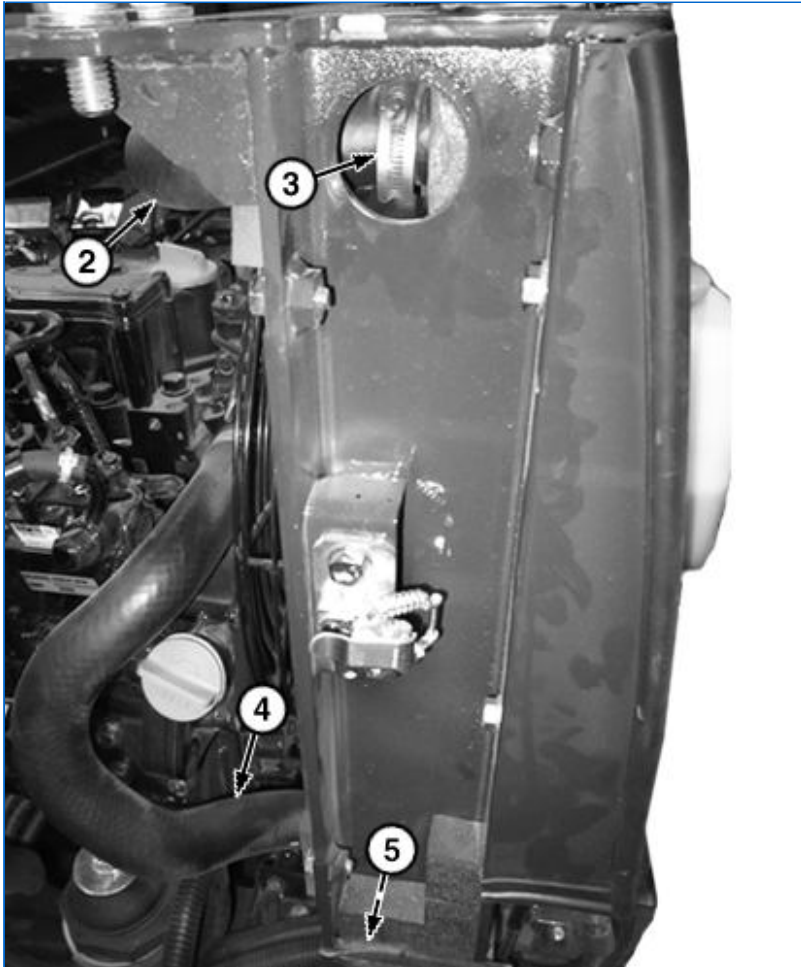
4.

TX1190722A-UN: Rubber Cap

LEGEND:

1 - Rubber Cap

Remove rubber cap (1).



5. TX1190724A-UN: Radiator Hoses

LEGEND:

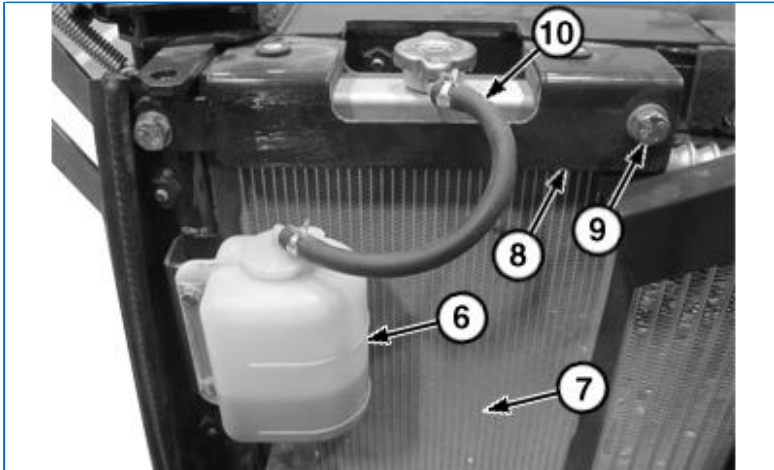
2 - Upper Radiator Hose

3 - Clamp

4 - Lower Radiator Hose

5 - Clamp

- Loosen clamp (3) and disconnect upper radiator hose (2). Close all openings using caps and plugs.
6. Loosen clamp (5) and disconnect lower radiator hose (4). Close all openings using caps and plugs.
7. Remove battery. [See Replacing Battery](#) . (Operator's Manual.)
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8. TX1190726A-UN: Radiator

LEGEND:

- 6 - Coolant Recovery Tank
- 7 - Radiator
- 8 - Bracket
- 9 - Cap Screw (2 used)
- 10 - Deaeration Hose

Remove coolant recovery tank (6). [See Coolant Recovery Tank Remove and Install](#) . (Group 0510.)

- 9. Remove cap screws (9) and bracket (8).
- 10. Disconnect deaeration hose (10).
- 11. Remove radiator (7).
- 12. Repair or replace parts as necessary.

INSTALLATION

Installation is reverse of removal procedure.

**TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX_ _K225001—)
Hydraulic Oil Cooler Remove and Install**

Hydraulic Oil Cooler Remove and Install

-: Specifications

SPECIFICATIONS	
Hydraulic Oil Tank Capacity	14 L 3.7 gal.

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
2. _____



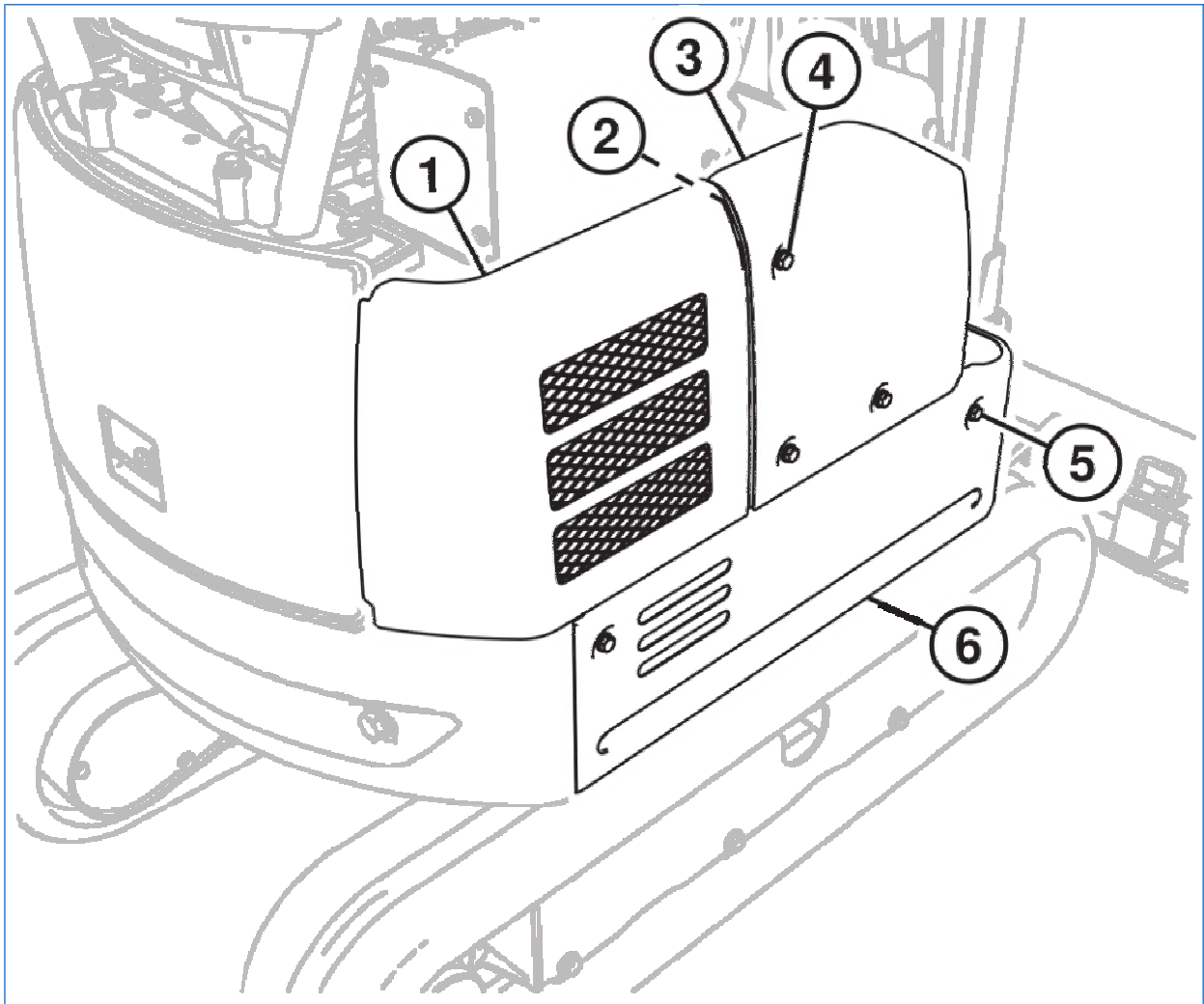
CAUTION:

Avoid personal injury from high-pressure fluid. High-pressure release of oil from pressurized system can cause serious burns or penetrating injury. Slowly loosen hydraulic oil tank cap to release pressure.

Release hydraulic oil tank pressure by slowly loosening hydraulic oil tank cap. [See Hydraulic Oil Tank Pressure Release Procedure](#) . (Group 9025-25.)

3. Drain hydraulic oil tank. [See Drain and Refill Hydraulic Tank Oil and Clean Suction Screen](#) . (Operator's Manual.)

Item	Measurement	Specification
Hydraulic Oil Tank	Capacity	14 L 3.7 gal.



4. TX1189862-UN: Access Door

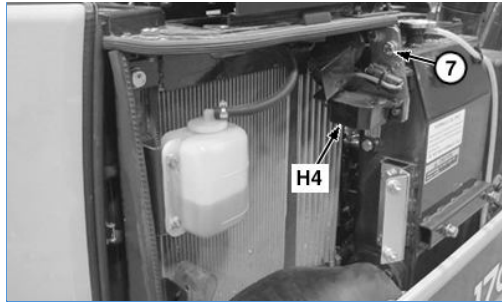
LEGEND:

1 - Access Door

- 2 - Cap Screw (2 used)
- 3 - Cover
- 4 - Cap Screw (3 used)
- 5 - Cap Screw (4 used)
- 6 - Cover

Remove cap screws (2) and access door (1).

5. Remove battery. [See Replacing Battery](#) . (Operator's Manual.)

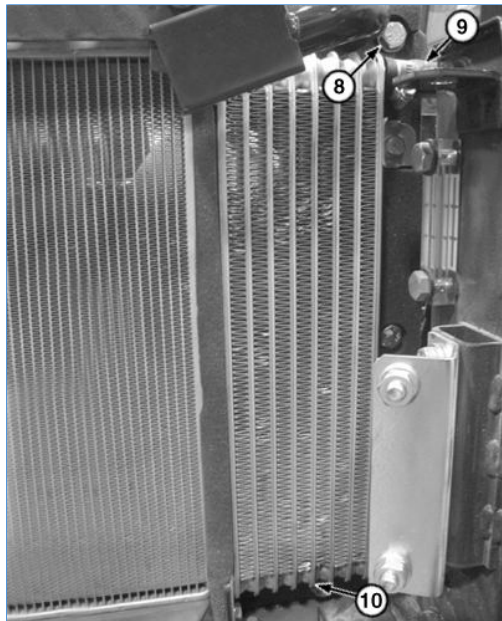


6. TX1190551A-UN: Travel Alarm

LEGEND:

- 7 - Cap Screw (2 used)
- H4 - Travel Alarm

Remove cap screws (7) and travel alarm (H4).



7. TX1190550A-UN: Hydraulic Oil Cooler

LEGEND:

- 8 - Cap Screw (4 used)
- 9 - Hydraulic Hose (2 used)
- 10 - Hydraulic Oil Cooler

Install identification tags and disconnect hydraulic hoses (9). Close all openings using caps and plugs.

8. Remove cap screws (8) and hydraulic oil cooler (10).
9. Repair or replace parts as necessary.

INSTALLATION

Installation is reverse of removal procedure.

Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING



NOTE:

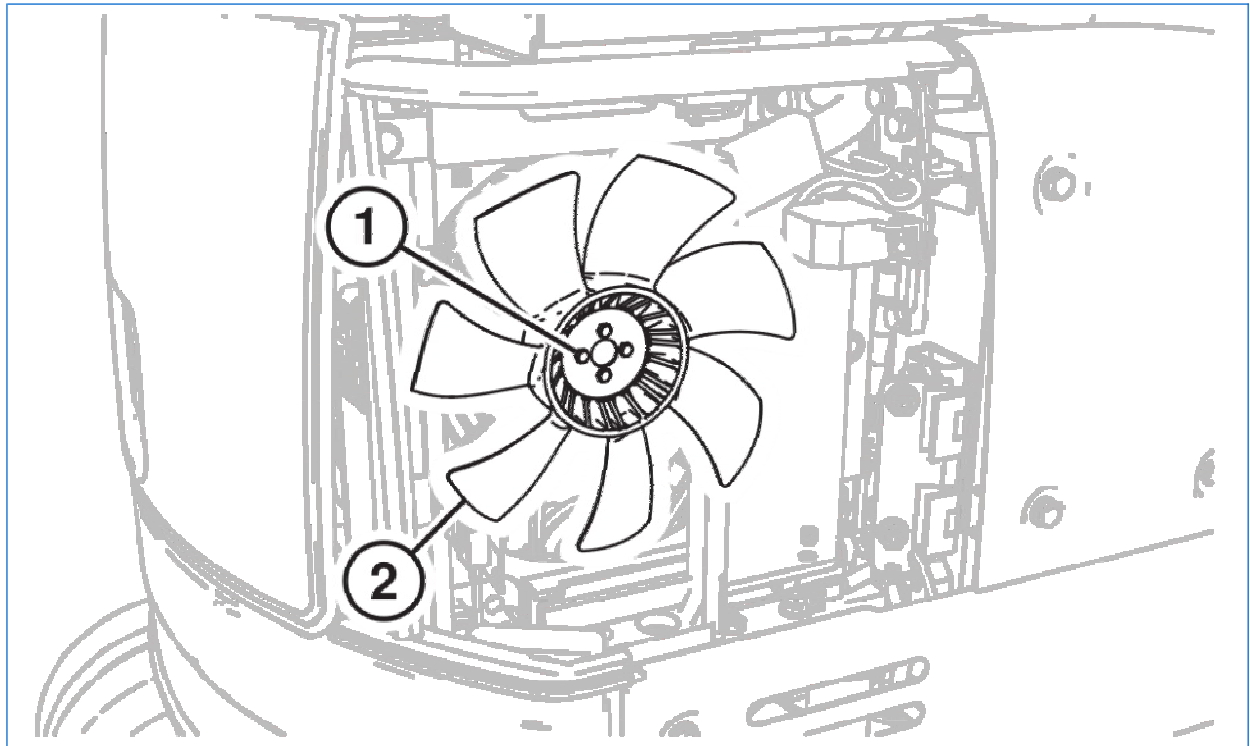
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**TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX_ _K225001-)
Fan Remove and Install**

Fan Remove and Install

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
2. Remove radiator. [See Radiator Remove and Install](#) . (Group 0510.)
3. Remove fan belt. [See Check and Adjust Fan Belt Tension](#) . (Operator's Manual.)



4. TX1190638-UN: Cooling Fan

LEGEND:

- 1 - Cap Screw (4 used)
- 2 - Fan

Remove cap screws (1) and fan (2).

5. Repair or replace parts as necessary.

INSTALLATION

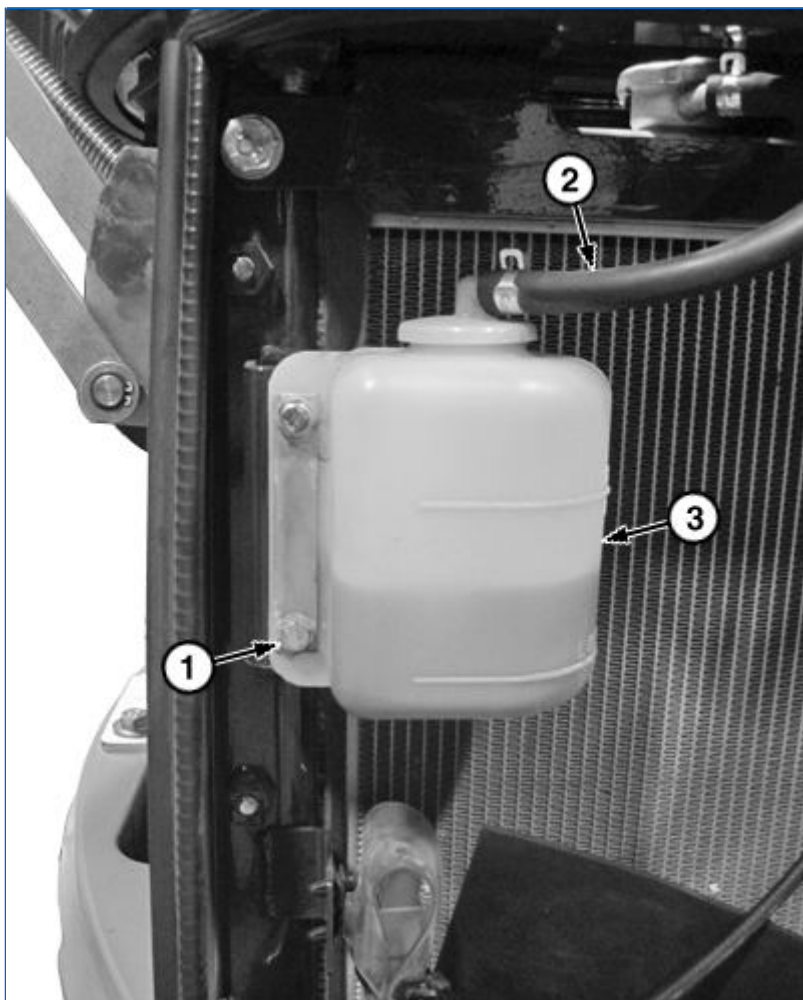
Installation is reverse of removal procedure.

TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX__K225001—) Coolant Recovery Tank Remove and Install

Coolant Recovery Tank Remove and Install

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
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2. TX1187980A-UN: Coolant Recovery Tank

LEGEND:

- 1 - Cap Screw (2 used)
- 2 - Coolant Hose
- 3 - Coolant Recovery Tank

Install clamps on coolant hose (2).

3. Install identification tags and disconnect coolant hose. Close all openings using caps and plugs.
4. Remove cap screws (1) and coolant recovery tank (3). Dispose of coolant properly.
5. Repair or replace parts as necessary.

INSTALLATION

Installation is reverse of removal procedure.

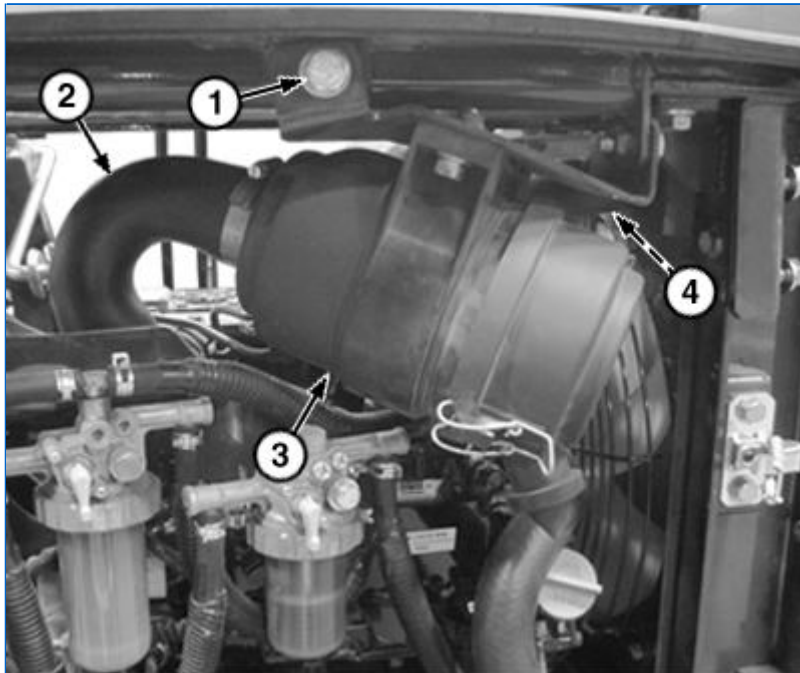
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TM13326X19 - 17G Compact Excavator (PIN: 1FF017GX__K225001—) Air Cleaner Assembly Remove and Install

Air Cleaner Assembly Remove and Install

REMOVAL

1. Park and prepare machine for service safely. [See Park and Prepare for Service Safely](#) . (Group 0001.)
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2. TX1190548A-UN: Air Cleaner Assembly

LEGEND:

- 1 - Cap Screw (2 used)
- 2 - Air Tube
- 3 - Air Cleaner Assembly
- 4 - Intake Tube

Install identification tags and disconnect air tube (2). Close all openings using caps and plugs.

3. Install identification tags and disconnect intake tube (4). Close all openings using caps and plugs.
4. Remove cap screws (1) and air cleaner assembly (3).
5. Repair or replace parts as necessary.

INSTALLATION

Installation is reverse of removal procedure.
