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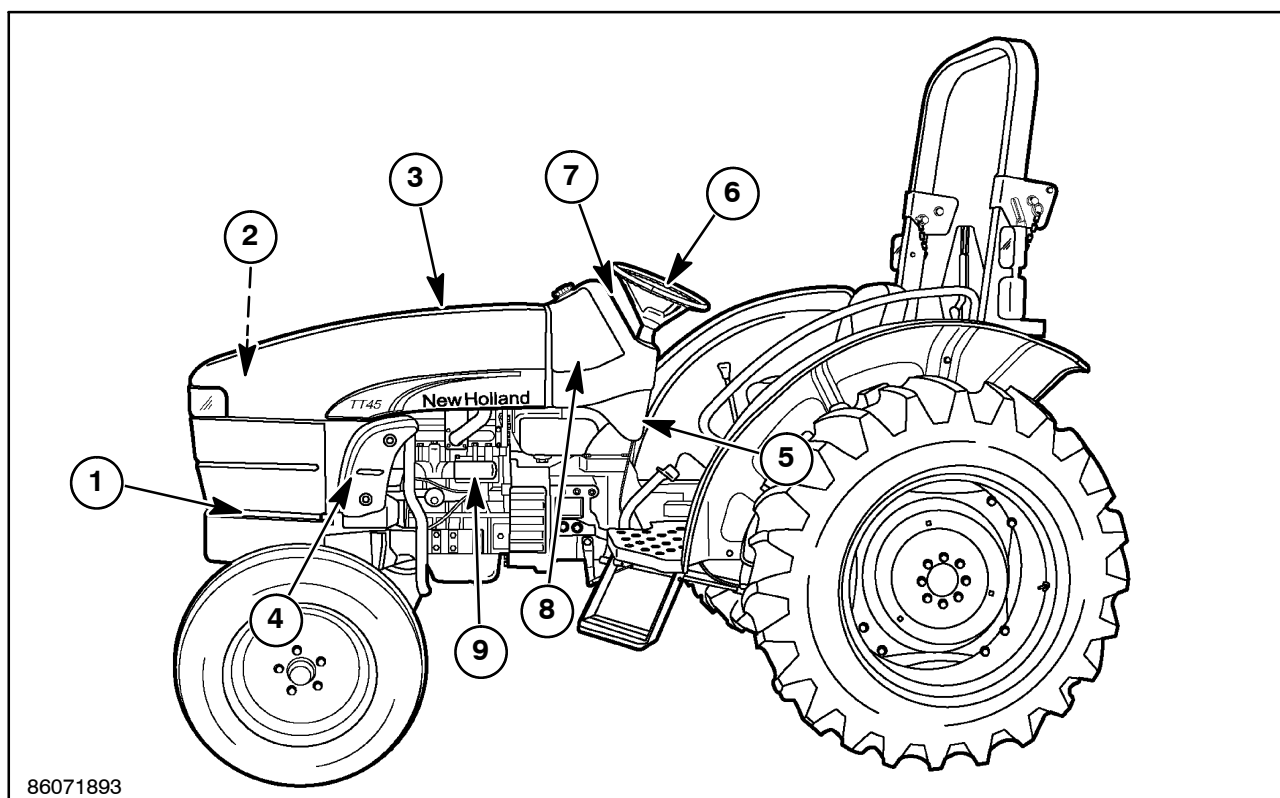
# TT45A, TT50A REPAIR MANUAL COMPLETE CONTENTS

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The following pages are the collation of the contents pages from each section and chapter of the TT45A, TT50A Repair manual. Complete Repair part # 87655297.

The sections used through out all New Holland 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 TT45A, TT50A Tractors.



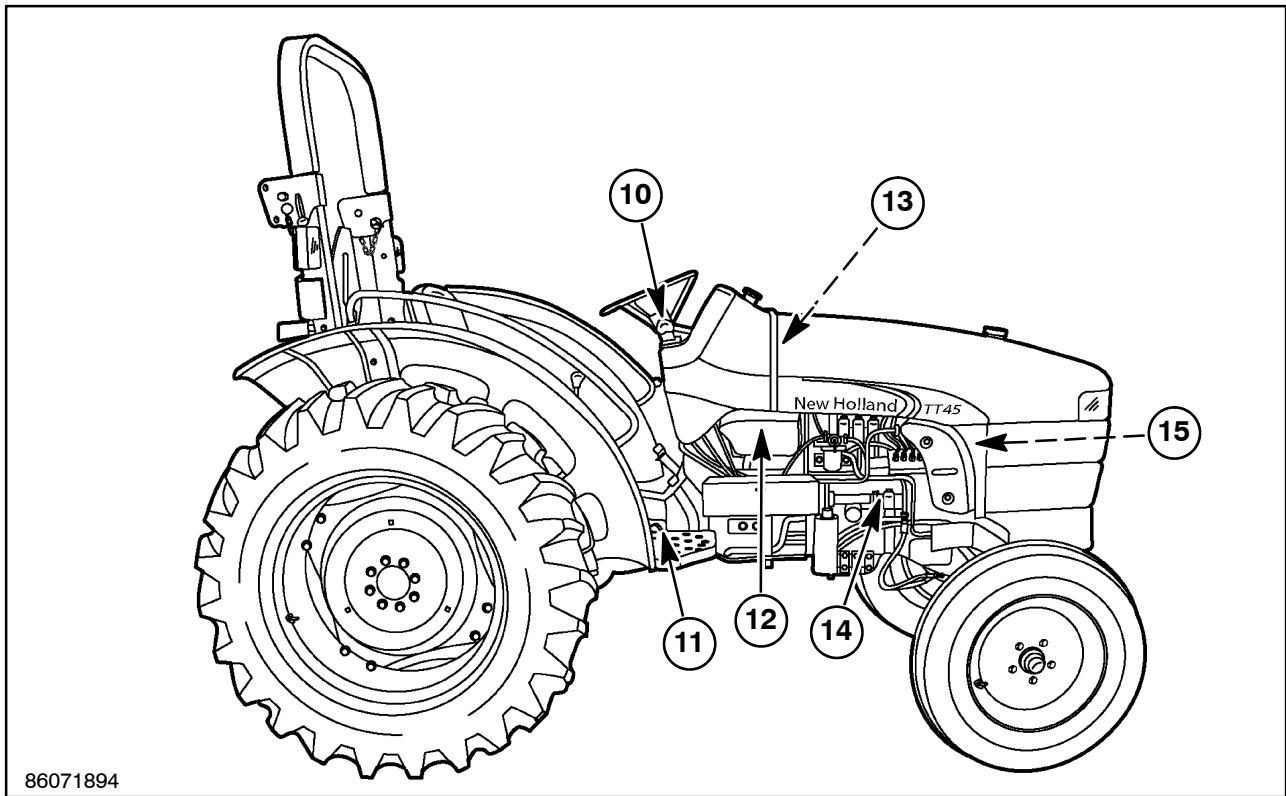
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### SEPARATING THE TRACTOR AT THE CLUTCH HOUSING/ENGINE – 8 x 2 TRANSMISSION

#### Disassembly

1. Disconnect the negative (-) battery cable, and the positive (+) battery cable from the battery, 1.
2. Disconnect the headlight wiring harness, 2, and remove the hood, 3.
3. If equipped, remove the remote loader control valve, and all the connecting hydraulic tubes from the right side loader tower.
4. Remove the LH and RH engine side covers, 4.
5. Remove the LH, RH and center rear hood panels, 5.
6. Remove the steering wheel, 6.
7. Remove the instrument panel, 7, from the dash housing. Disconnect all electrical connectors from the instrument panel.
8. Remove the dash housing, 8, from the firewall. Disconnect all electrical connectors from the dash housing.
9. Disconnect electrical harness to the starter, 9.



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10. Disconnect and remove the throttle cable from the dash mounted throttle control lever, 10.
11. Disconnect and remove the throttle cable from the foot control pedal, 11.
12. Drain fuel from fuel tank, 12, into a suitable container. Remove fuel tank from firewall.

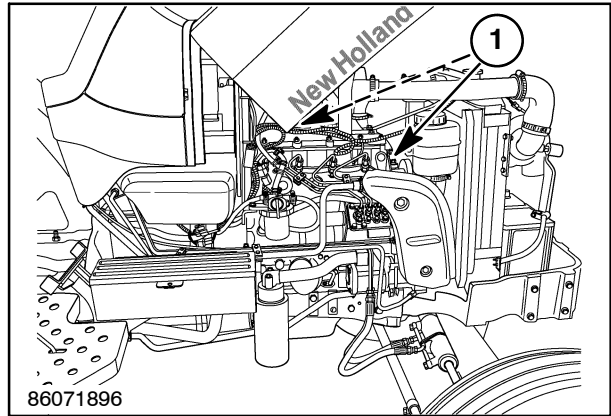
13. Remove the firewall, 13, from the tractor.
14. Disconnect all hydraulic tubes 14, to the hydraulic pump, 15.

## SECTION 10 - ENGINE - CHAPTER 1

15. Attach a chain sling to the two hoist eyes, 1.
16. Attach a suitable hoist to the chain sling.

**NOTE:** The hoist is used for supporting the engine and axle assembly, not necessarily for lifting.

17. Roll a floor jack under the rear of the tractor, and place under the clutch housing. Raise the jack enough to support the drive train.

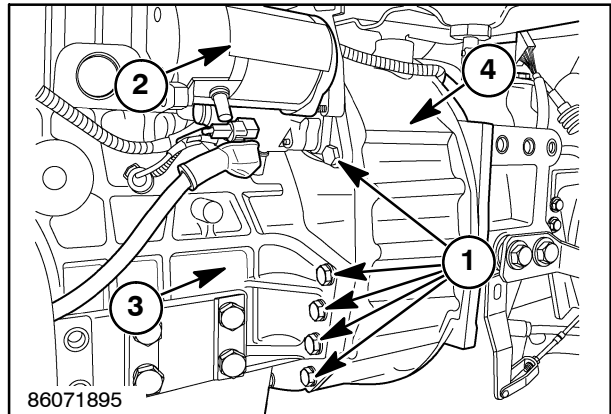


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18. Remove the buckle-up bolts, 1, and starter, 2, that secure the engine, 3, to the clutch housing, 4.

**NOTE:** The hoist and/or floor jack may need to be raised or lowered to allow for separation of the engine and clutch housing.

19. Carefully roll the drive train away from the engine, using the floor jack for support.



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## SEPARATING THE TRACTOR AT THE ENGINE/FRAME

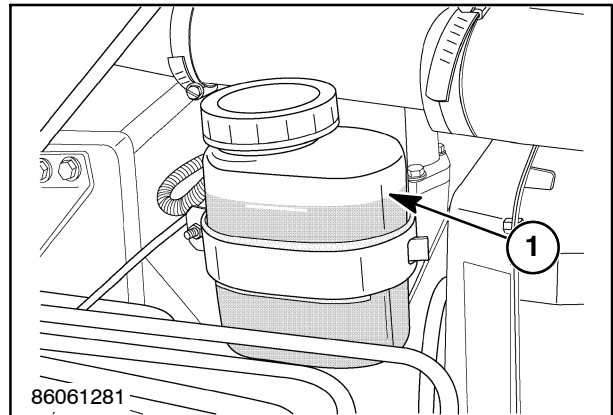
### Removal

1. Use jack stands under the frame rails to support the front frame/engine assembly.



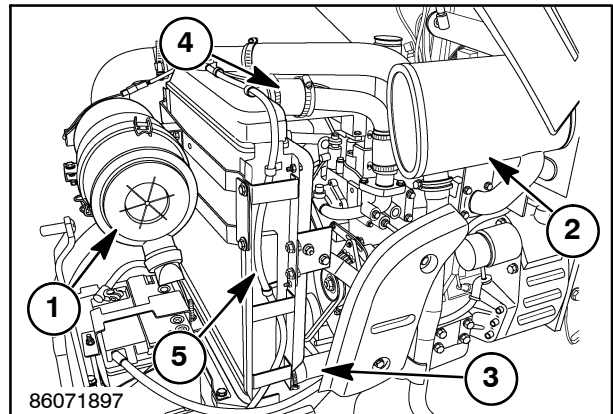
**Make sure the front frame/engine assembly is securely supported before removing the engine.**

2. Remove the chain sling from the two hoist eyes on the engine.
3. Drain the hydraulic fluid from the power steering reservoir, 1, into a suitable container. Remove the reservoir, 1, and mounting bracket from the engine.



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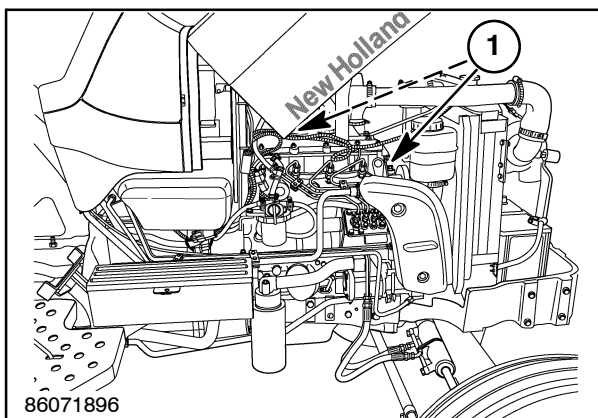
4. Remove the air cleaner assembly, 1, from the tractor.
5. Remove the muffler and tailpipe assembly, 2, from engine.
6. Loosen the lower radiator hose, 3, and drain the coolant into a suitable container.
7. Remove the lower, 3, and upper, 4, radiator hoses.
8. Remove the radiator, 5, from the tractor.



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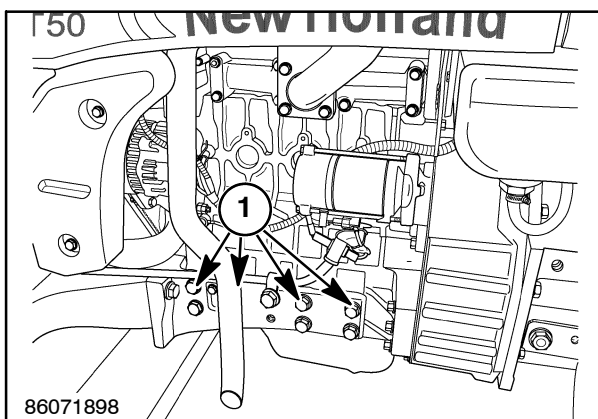
## SECTION 10 - ENGINE - CHAPTER 1

9. Attach a chain sling to the two hoist eyes, 1.
10. Attach a suitable hoist to the chain sling, and raise the engine enough to support the engine.



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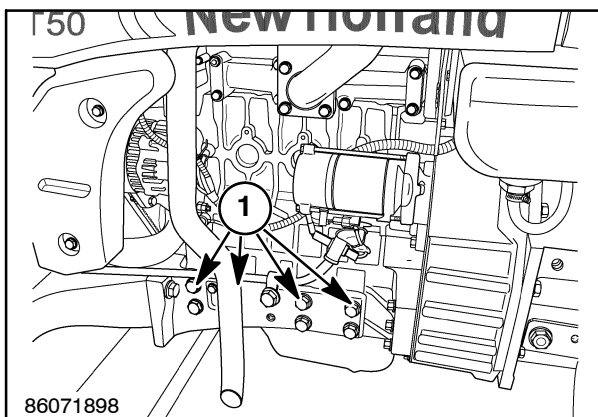
11. Loosen and remove the engine mounting bolts, 1, on both sides of the frame.
12. Carefully lift the engine from the frame.
13. Attach the engine to a suitable engine stand.
14. With the engine securely attached to the engine stand, remove the chain sling from the two engine hoist eyes.



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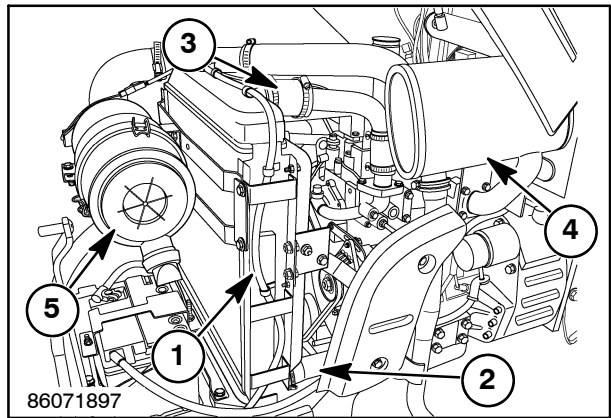
### Installation

1. Attach a chain sling to the two hoist eyes.
2. Attach a suitable hoist to the chain sling, and raise the engine enough to support the engine.
3. Remove the engine from the engine stand.
4. Using a hoist, position the engine in the frame, aligning the mounting holes in the frame with the mounting holes in the engine.
5. Install the engine mounting bolts, 1, on both sides of the frame. Tighten the mounting bolts to 139 – 175 N·m (102 – 129 ft-lb).
6. With the engine securely installed into the frame, remove the chain sling from the two engine hoist eyes.



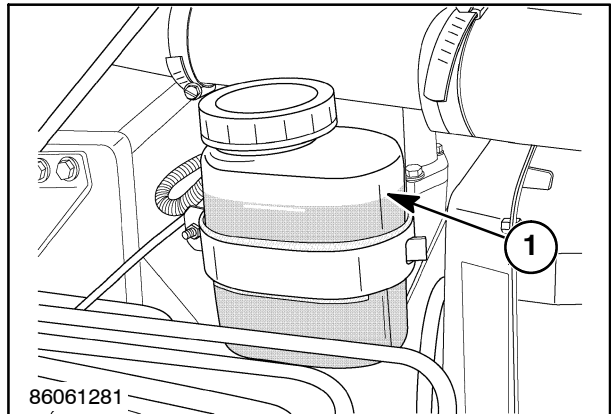
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7. Reinstall the radiator, 1, into the tractor.
8. Reinstall the lower, 2, and upper, 3, radiator hoses.
9. Fill the radiator, 1, with new coolant to the proper level.
10. Reinstall the muffler and exhaust pipe, 4, onto the exhaust manifold.
11. Reinstall the air cleaner assembly, 5, onto the engine.



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12. Reinstall the power steering reservoir and mounting bracket, 1, onto the engine. Reconnect the hydraulic lines to the reservoir.
13. Refill the reservoir to the proper level with Ambra Multi G 134.



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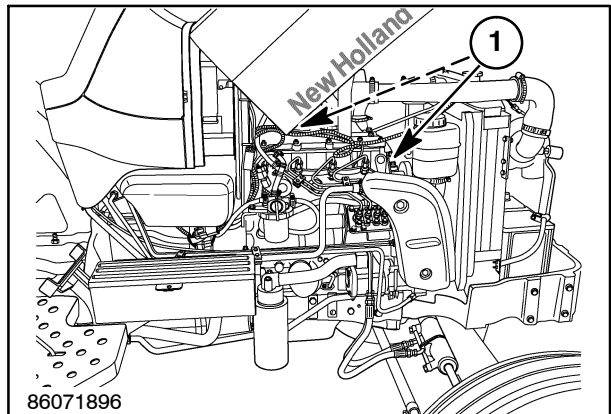
**ATTACHING THE TRACTOR AT THE CLUTCH HOUSING/ENGINE - 8 x 2 TRANSMISSION**

**Assembly**

————— **⚠ WARNING ⚠** —————

**Do not use the buckle-up bolts to draw the drive train together with the engine. Severe damage to the drive train may result.**

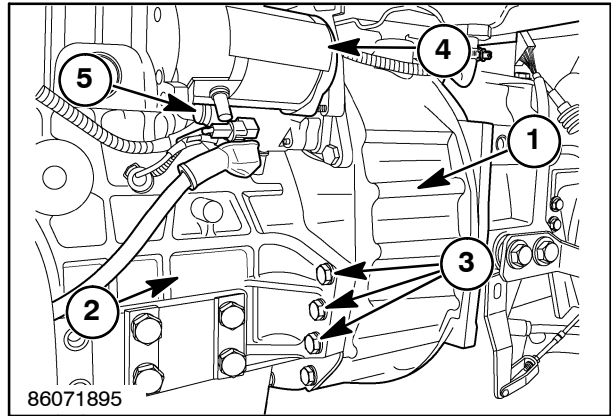
1. Attach a chain sling to the two hoist eyes, 1.
2. Attach a suitable hoist to the chain sling.
3. Carefully roll the drive train into alignment with the engine. Align the splines on the 8 x 2 input shaft with the clutch and the engine flywheel. Rotate the engine fan to align the input shaft and the clutch/flywheel. The floor jack or hoist may be needed to raise or lower the engine to make alignment possible.



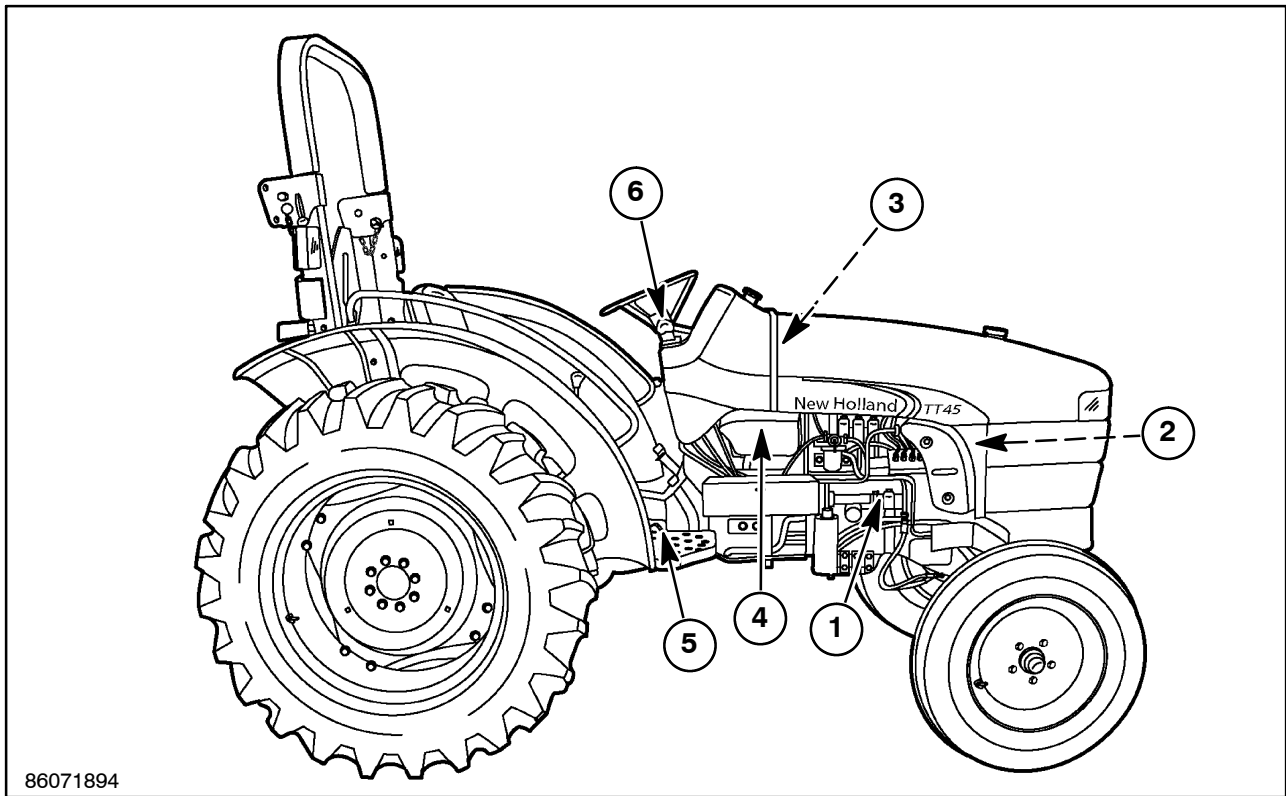
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## SECTION 10 - ENGINE - CHAPTER 1

4. Connect the clutch housing, 1, to the engine, 2, and install the bucket-up bolts, 3.
5. Reinstall the starter, 4, and secure with the retaining nuts. Connect the wiring harness, 5, to the starter.
6. Tighten the buckle-up bolts, 3, in a criss-cross pattern. Torque the M10 bolts and nuts to 68 N·m (50 ft-lb) Torque the two M12 bolts to 81 N·m (60 ft-lb).
7. Remove the chain hoist and sling from the engine hoist eyes. Remove the floor jack from under the tractor.







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8. Reconnect all hydraulic tubes, 1, to the hydraulic pump, 2.
9. Reattach the firewall, 3, to the tractor.
10. Reattach the fuel tank, 4, to the firewall. Reconnect fuel lines to the fuel shut-off valve and tank vent.
11. Reattach the throttle cable to the foot control pedal, 5.
12. Reattach the throttle cable to the dash mounted throttle control lever, 6.

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