

# Group 01 ENGINE REMOVAL AND INSTALLATION

## SPECIAL TOOLS

*NOTE: Order tools from your SERVICE-GARD® Catalog, unless otherwise indicated.*

Number	Name	Use
T26509	Lift Bracket	Engine removal and installation
T26508	Lift Bracket	Engine removal and installation

W07;;2001 A 030185

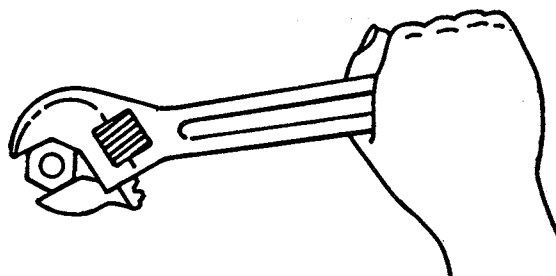
## TORQUES

Engine Support Bolts . . . . . 210 N·m (155 lb-ft)  
Manifold Exhaust Locknut . . . . . 5/16-in.

W07;;2001 B 060685

Most service procedures on the engine can be accomplished with the engine in the windrower. If the crankshaft is to be removed or engine overhauled, remove the engine as follows.

**IMPORTANT:** Be certain to plug all openings and cap all holes or lines that are disconnected to prevent contamination of a particular system.

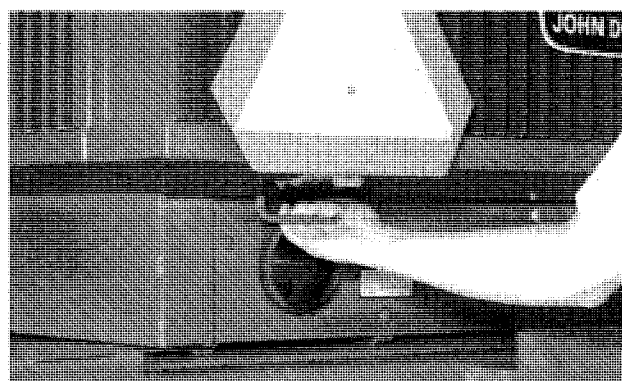


2MA;W9786 W07;;2505 C 191284

## REMOVE ENGINE

If windrower is equipped with platform, remove it.

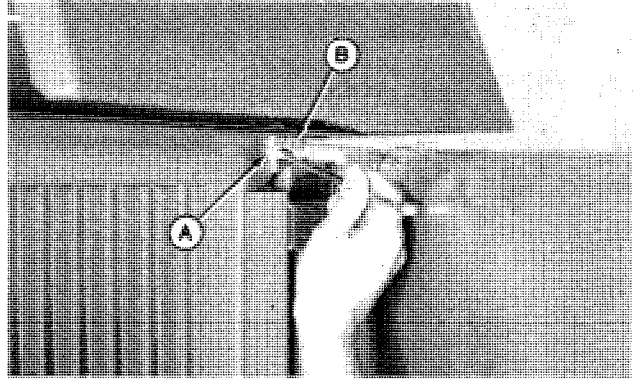
1. Open rear shielding.



2MA;W9717 W07;;2505 D 120485

## Engine Removal and Installation

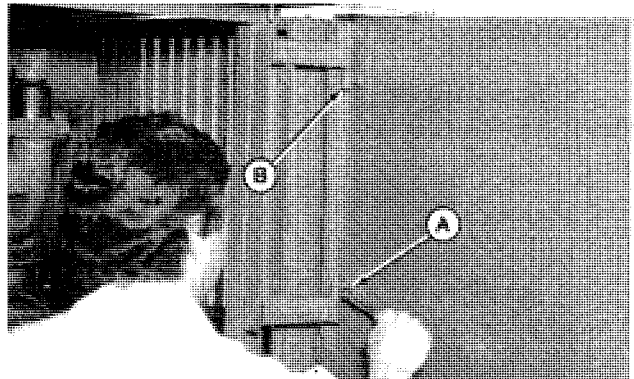
2. Remove flanged nut (A) and detach stop cable (B) from windrower.



2MA;W10414 W07;;2505 E 191284

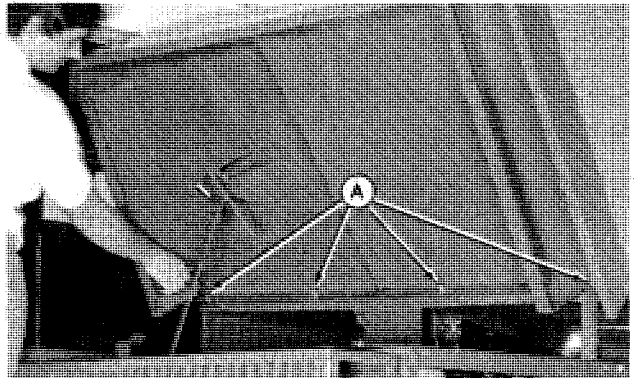
3. While supporting rear panel, remove cap screw and hinge bracket (A).

Let rear panel drop downwards from hinge pin (B) and remove from windrower.



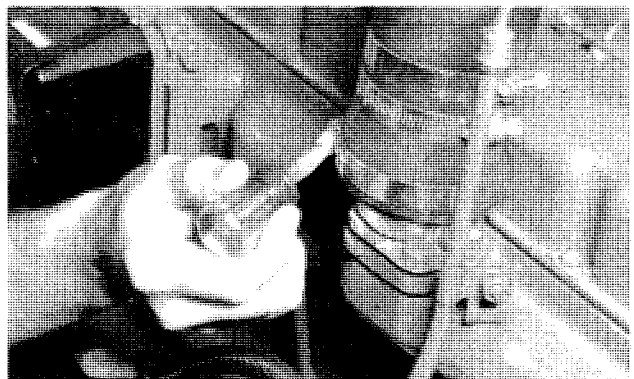
2MA;W10415 W07;;2505 F 191284

4. Support hinged hood and remove four flanged nuts (A). Remove hood from windrower.



2MA;W10416 W07;;2505 G 191284

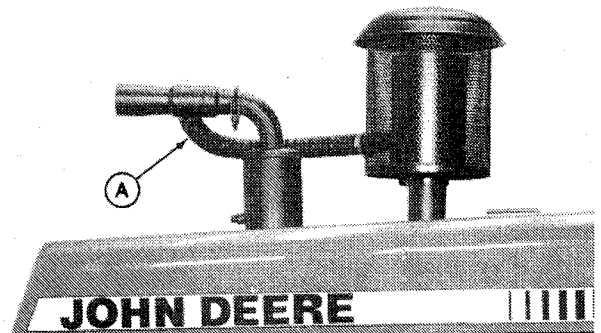
5. Loosen clamp and separate canister hose from manifold.



2MA;W10436 W07;;2001 C 030185

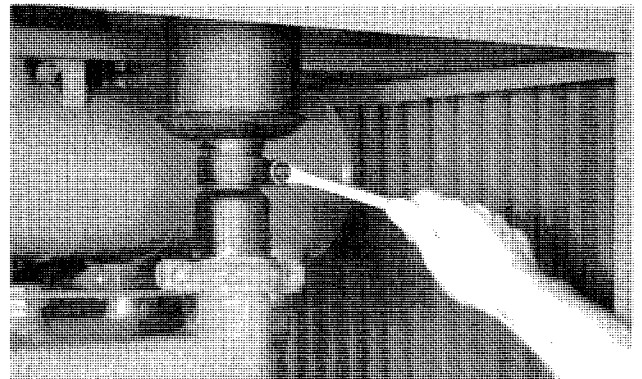
## Engine Removal and Installation

6. If windrower is equipped with optional aspirated air cleaner, disconnect hose (A) from muffler or air cleaner.



2MA;W10485 W07;;2001 D 030185

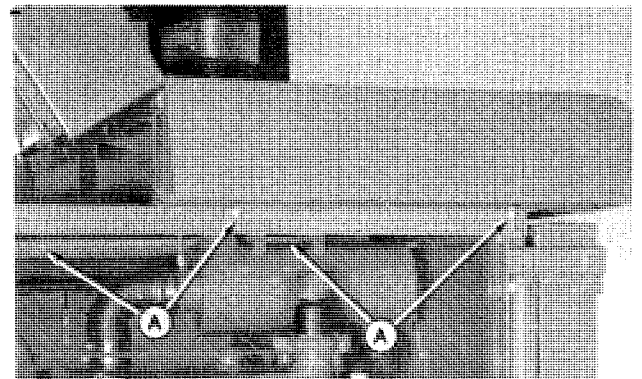
7. Loosen muffler clamp and remove muffler from exhaust manifold.



2MA;W10437 W07;;2001 E 030185

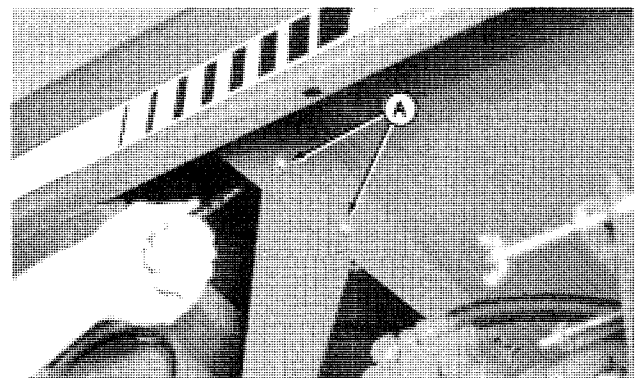
8. Remove four nuts (A) from underside of stationary hood.

*NOTE: Leave bolts in position until stationary hood is removed.*



2MA;W10417 W07;;2505 J 191284

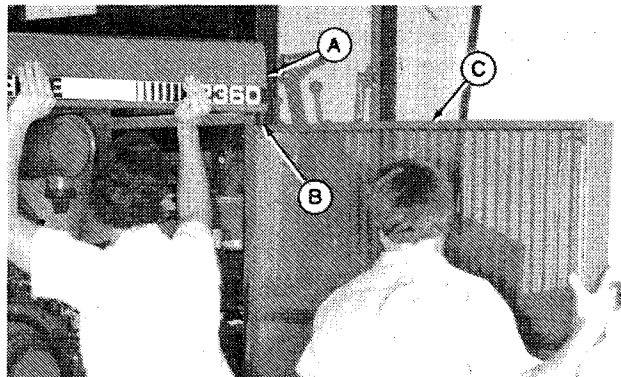
9. Open right side panel and support it. Remove two fasteners (A) from valve support bracket.



2MA;W10418 W07;;2505 K 191284

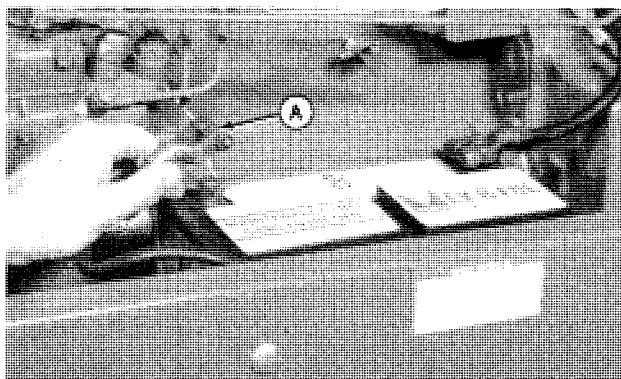
10. Push up on stationary hood (A) until it clears hinge pin (B) on side panel (C).

Remove side panel and then stationary hood.



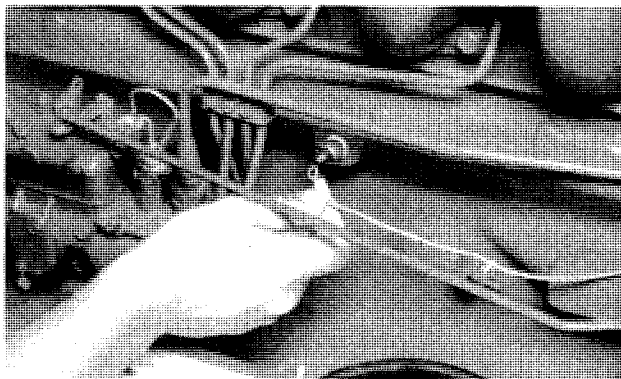
2MA;W10419 W07;;2505 L 191284

11. Disconnect negative (-) ground cable (A) from battery.



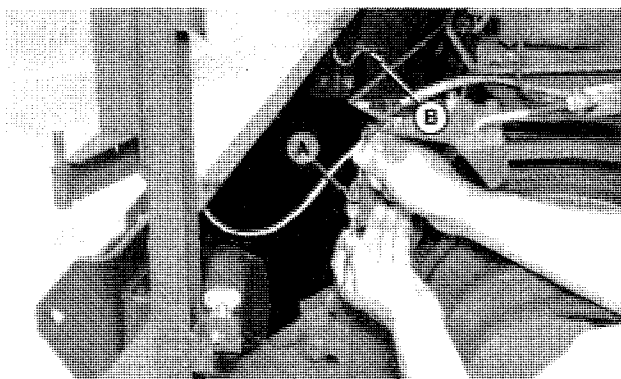
2MA;W9686 W07;;2001 F 030185

12. Disconnect temperature gauge wire from sending unit.



2MA;W10439 W07;;2001 G 030185

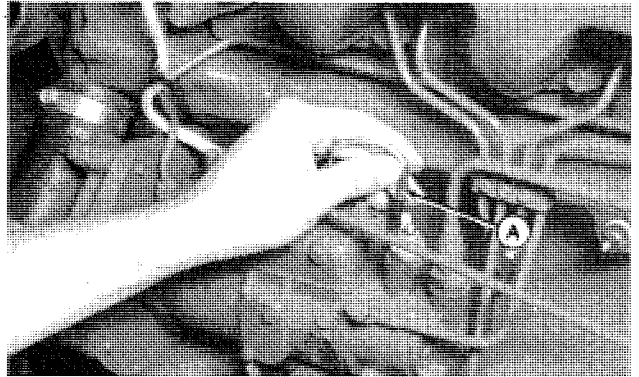
13. Disconnect working light wire (A) and red taillight wire (B).



2MA;W10411 W07;;2505 O 191284

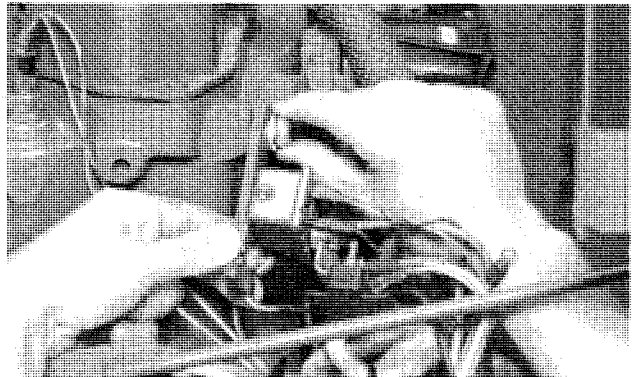
## Engine Removal and Installation

14. Disconnect electric fuel shutoff cable (A) from fuel pump.



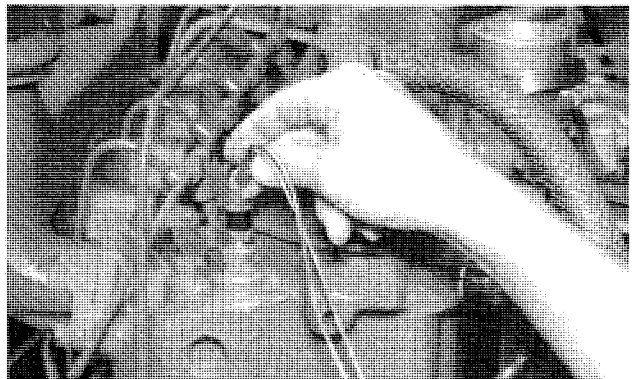
2MA;W10383 W07;;2001 H 030185

15. Remove 1/2-in. bolt, lock washer, and main circuit breaker from engine.



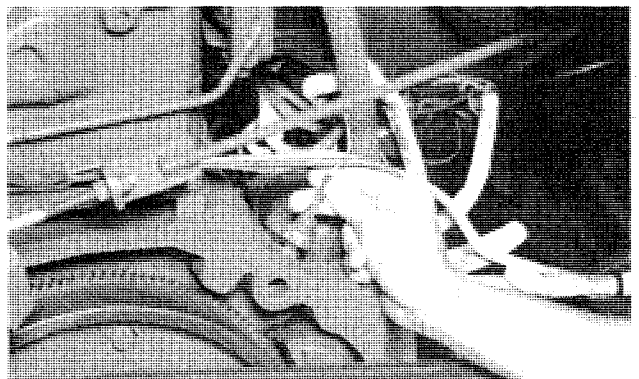
2MA;W10441 W07;;2001 I 030185

16. Remove temperature buzzer wire from engine switch.



2MA;W10443 W07;;2001 J 030185

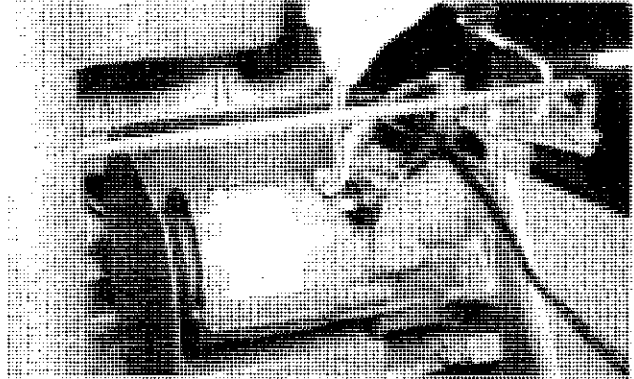
17. Remove oil pressure buzzer wire from sending unit.



2MA;W10444 W07;;2001 K 030185

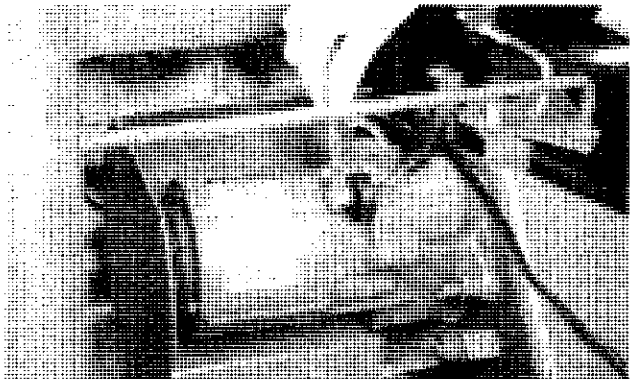
## Engine Removal and Installation

18. Remove nut, washer, plastic shield, and positive (+) battery cables from starter solenoid.



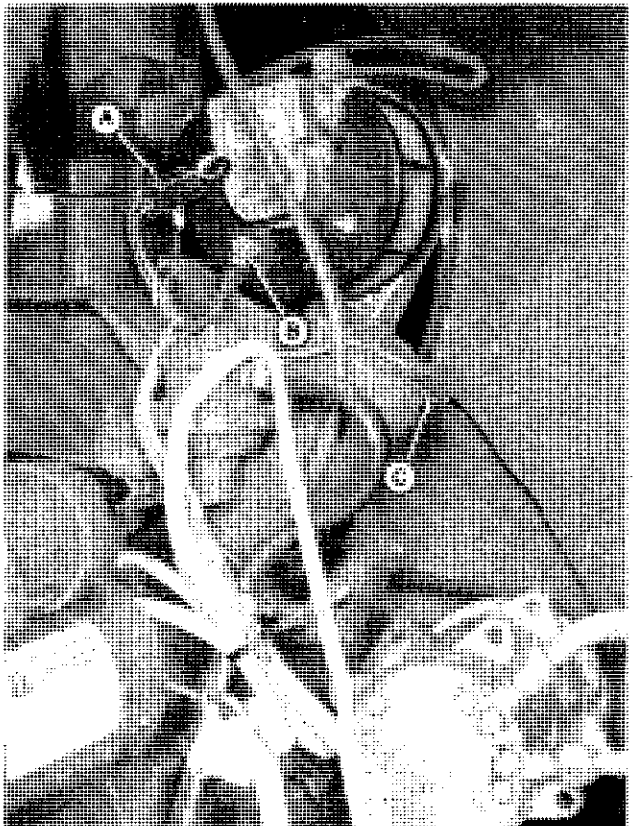
2MA;W10602 W07;;2001 L 030185

19. Remove nut and negative (-) wire from starter solenoid.



2MA;W10654 W07;;2001 M 030185

20. Disconnect wires from voltage regulator (A), alternator (B), and A-C compressor (C).

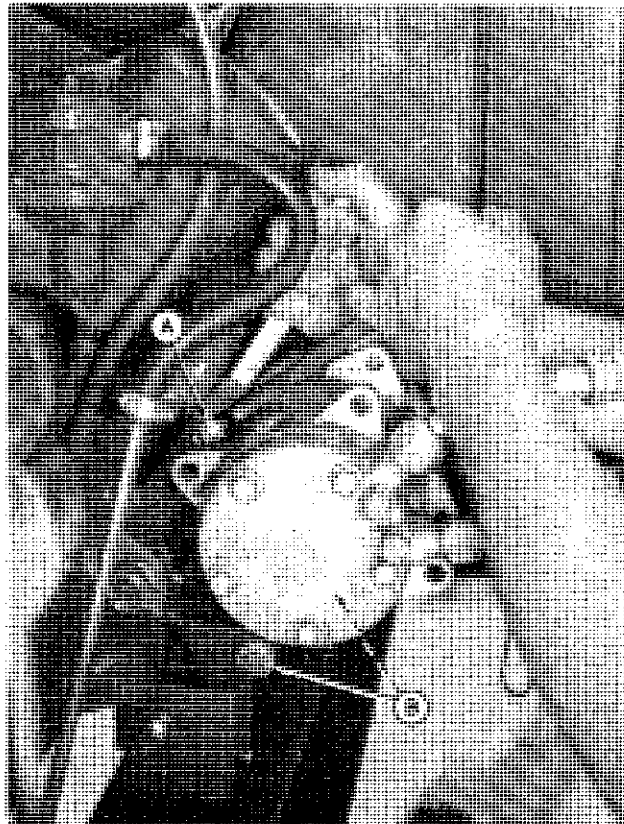


2MA;W10446 W07;;2001 N 030185

21. Remove belt tensioning hardware (A) and pivot hardware (B).

Remove compressor from support and drive belt. Secure to windrower frame clear of engine compartment.

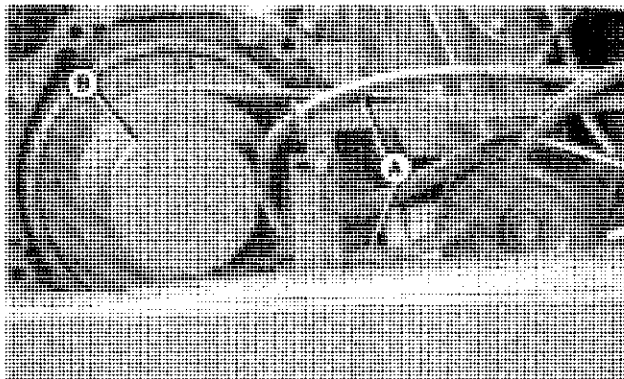
**IMPORTANT:** Be sure not to disconnect, kink, or damage refrigerant hoses when repositioning compressor.



2MA;W10447 W07;2001 Q 030185

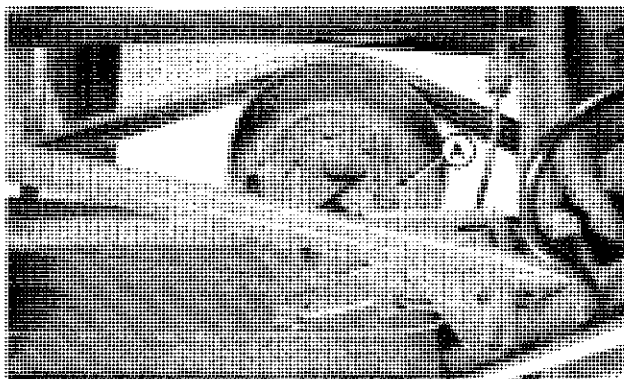
22. Remove platform drive belt (A) from engine flywheel (B).

*NOTE: Platform drive must be disengaged.*



2MA;W10423 W07;2001 P 120485

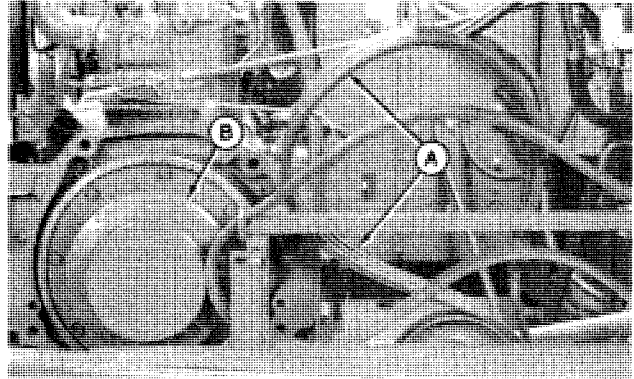
23. Loosen adjusting nuts (A) on tractor drive belt tensioner until belt will clear engine flywheel.



2MA;W10422 W07;2001 Q 030185

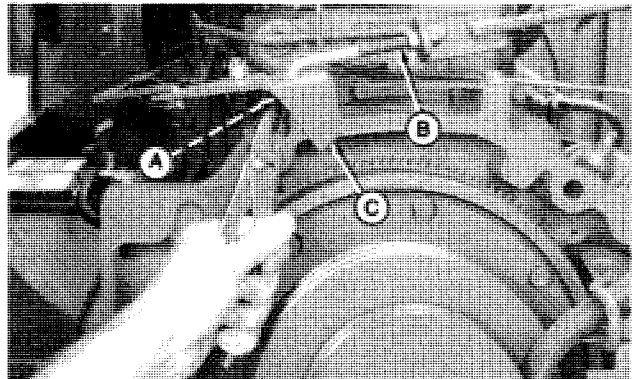
## Engine Removal and Installation

24. Remove tractor drive belt (A) from engine flywheel (B).



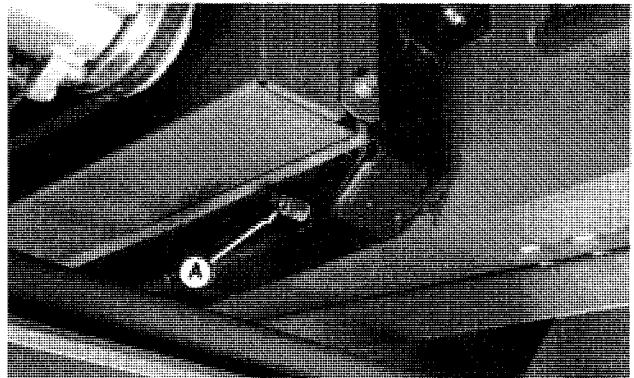
2MA;W10424 W07;;2001 R 030185

25. Remove cotter pin (A) and disconnect throttle linkage (B) from pivot plate (C).



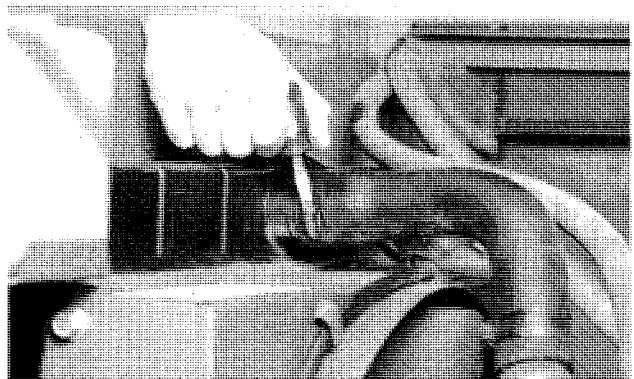
2MA;W10448 W07;;2001 S 030185

26. Drain engine coolant from radiator by opening drain valve (A).



2MA;W10449 W07;;2001 T 030185

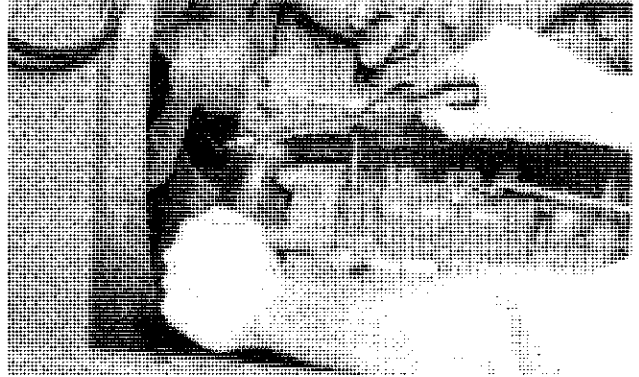
27. Loosen clamp and disconnect coolant return hose from radiator.



2MA;W10450 W07;;2001 U 030185

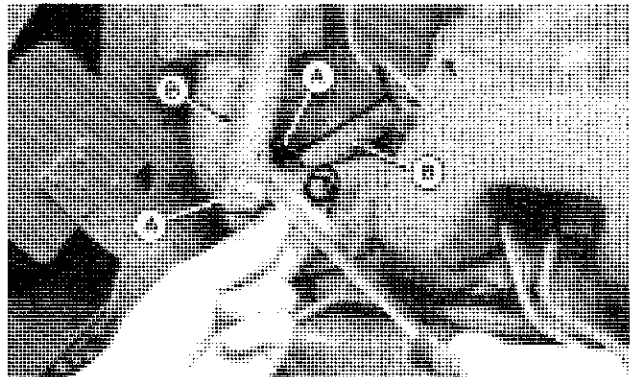
## Engine Removal and Installation

28. Loosen clamp and remove coolant supply hose from water pump.



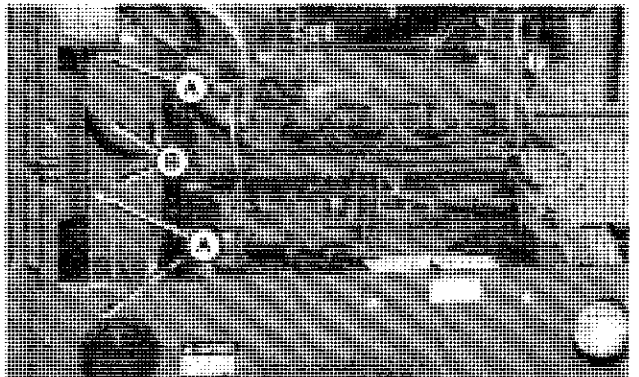
2MA;W10429 W07;;2001 V 030185

29. Loosen clamps (A) and remove heater hoses (B).



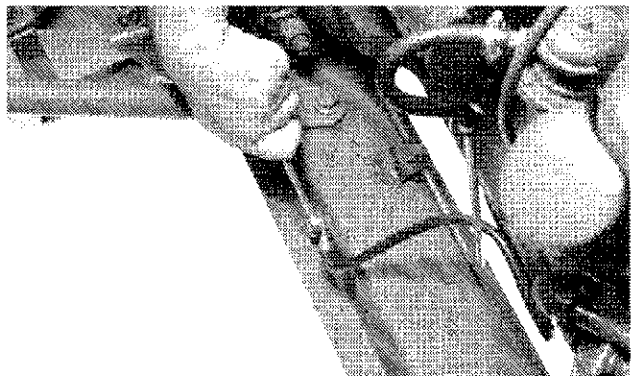
2MA;W10451 W07;;2001 W 030185

30. Remove fasteners (A) and strap (B) from fan shroud. Repeat steps on other side and separate fan shroud from radiator. Support shroud on fan.



2MA;W10452 W07;;2001 X 030185

31. Disconnect engine negative (-) ground cable from frame.



2MA;W10454 W07;;2001 Y 030185



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to download the complete manual.**

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