



JOHN DEERE

Product Services Information

INSTALLATION INSTRUCTIONS

(Includes English, French, German, Spanish and Italian)



JOHN DEERE

40 AMP ALTERNATOR KIT

Parts in Kit

Qty.	Description
1	Alternator
1	Nut, M6
8	Tie Strap
1	Jumper, Alternator to Starter
2	Jumper, Regulator By-Pass
1	Adapter Harness, Instrument Panel
1	Conduit, Flexible
1	Adjusting Bracket*

*Adjusting bracket for use on later models only.

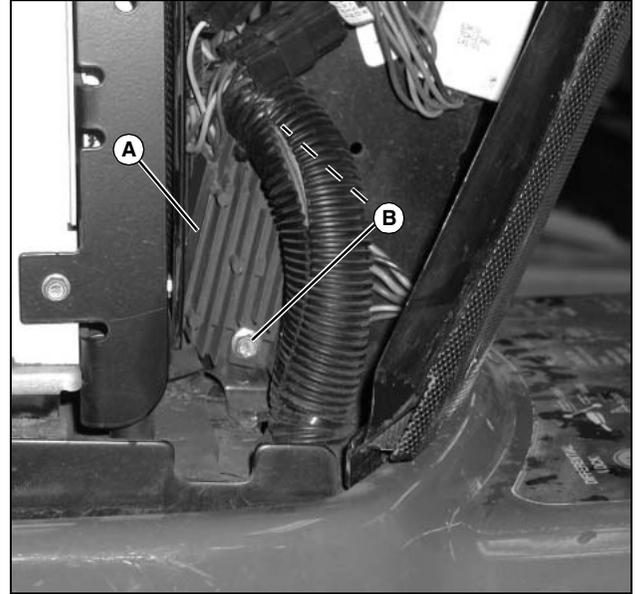
NOTE: Retain these installation instructions with your machine operator's manual.

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades or any other attachments.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

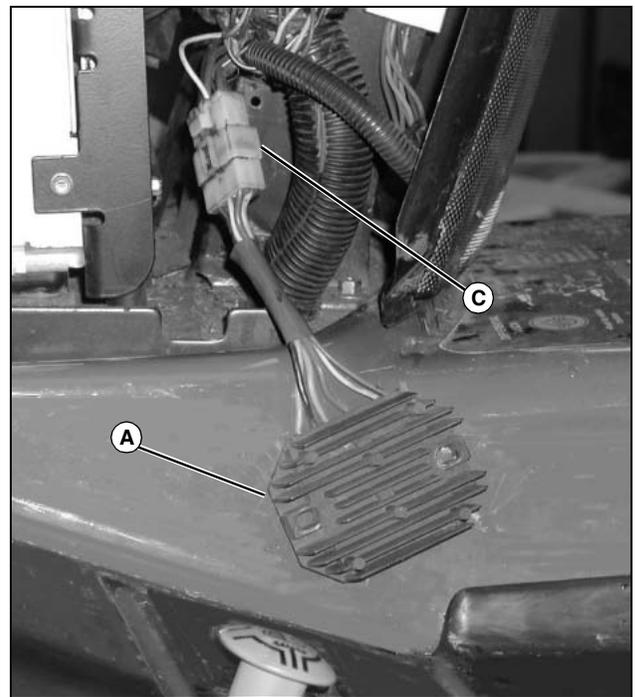
Remove Regulator

1. Park machine safely.



MX17035

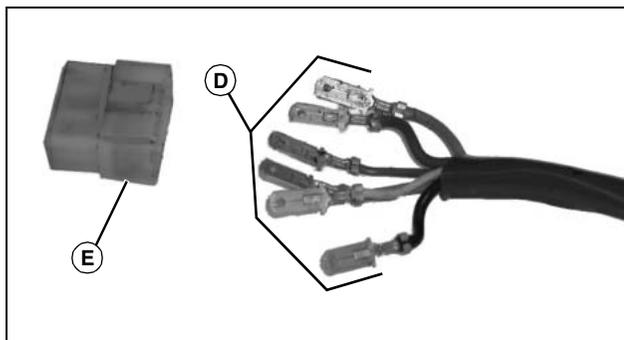
2. Remove left closeout panel and locate regulator (A).
3. Remove two bolts (B).



MX17036

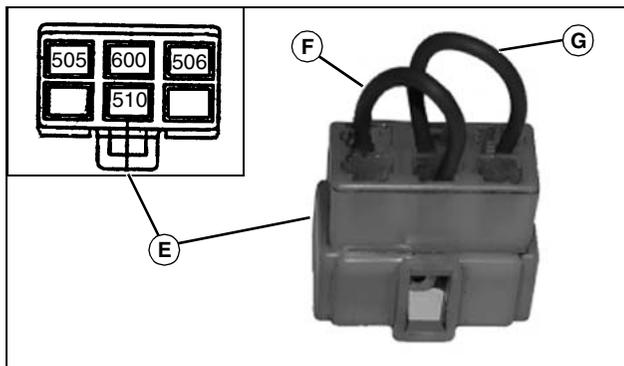
4. Pull regulator (A) forward and disconnect regulator wiring harness (C).

Install Instrument Panel Adapter Harness



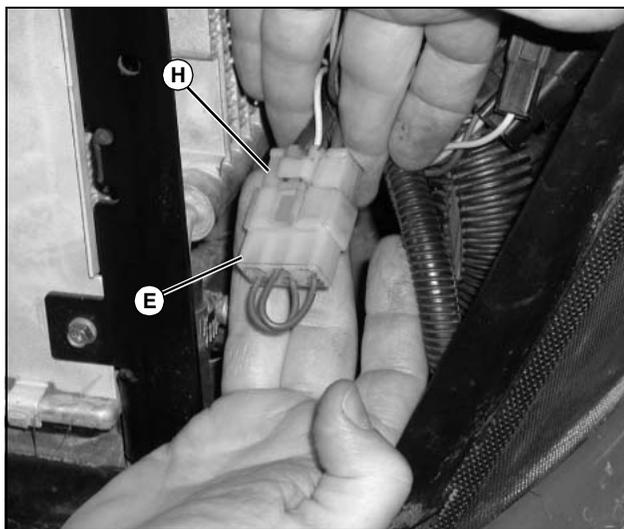
MX17037

5. Release connector tabs (D) on each regulator wire and pull from connector (E). Retain connector.



M89170, MX17585

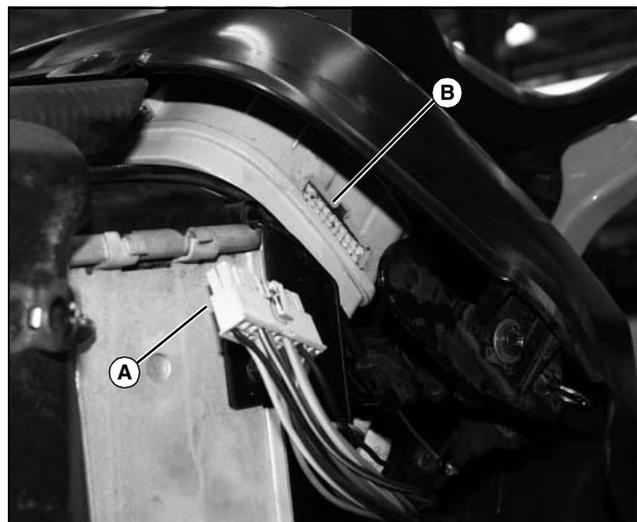
6. Insert one regulator by-pass jumper (F) from pin 505 to pin 510 on six-pin connector (E). Insert the other regulator by-pass jumper (G) from pin 600 to pin 506. Be sure that connector ends on jumpers snap firmly in place.



MX17038

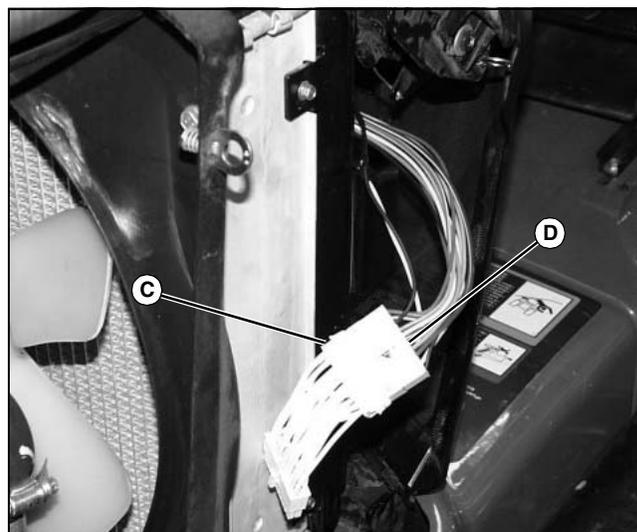
7. Plug connector (E) into regulator harness (H).

8. Secure wiring harness with tie straps.



MX17599

1. Disconnect main wiring harness (A) from left side of instrument panel (B).



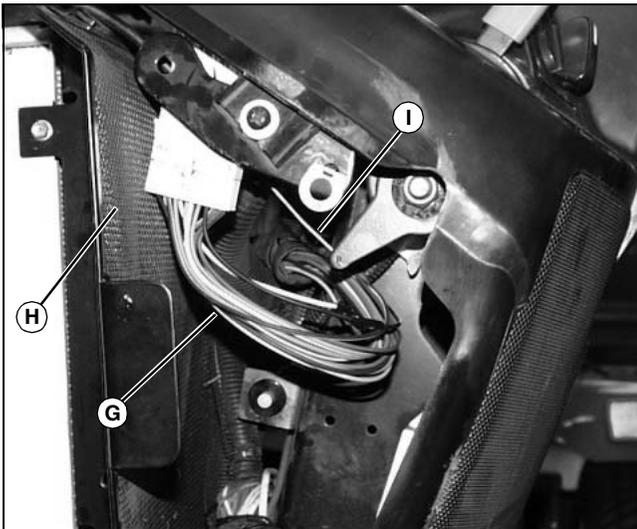
MX12520

2. Connect one end of instrument panel adapter harness (C) to main wiring harness (D).



MX12521

3. Connect other end of instrument panel adapter harness (E) to instrument panel connector (F).

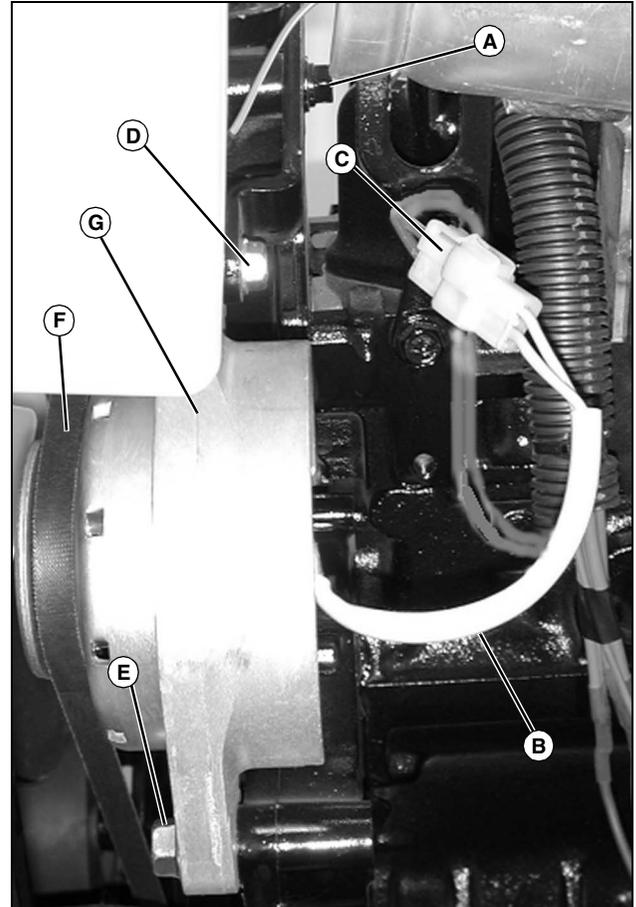


MX12522

4. Secure wiring harness (G) with tie straps away from slide out panel (H) and throttle cable (I).
5. Install left closeout panel.

Remove Standard Alternator

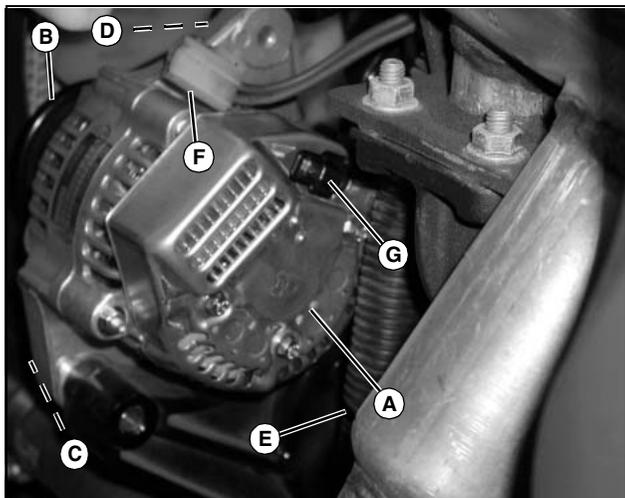
CAUTION: Avoid injury! Touching hot surfaces can burn skin. The engine, components, and fluids will be hot if the engine has been running. Allow the engine to cool before servicing or working near the engine and components.



MX13613a

1. Loosen belt adjusting bolt (A).
2. Disconnect alternator pigtail harness (B) at connector (C).
3. Remove and retain top mounting bolt (D).
4. Remove and retain bottom mounting bolt (E).
5. Remove belt (F) from alternator (G) and remove alternator.

Install Alternator (Machine Serial Numbers -40000)

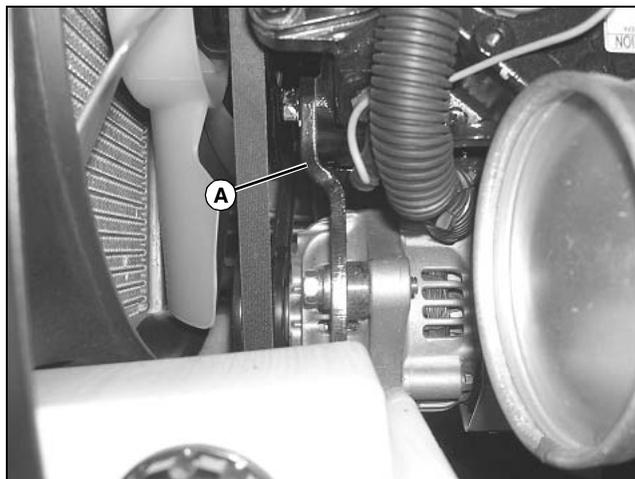


MX17581

1. Install new alternator (A) by aligning belt on alternator pulley (B), install and loosely tighten bottom bolt (C) and then top bolt (D).
2. Tension the belt using the adjusting bolt. Belt deflection should be 10 - 15 mm (0.40 - 0.60 in.) when belt is depressed inward.
3. Tighten mounting bolts.
4. Cut and remove tie strap (E) from main harness to release alternator lead. Connect alternator lead (F) from main harness to alternator at connector (G).

Install Alternator (Machine Serial Numbers 040001-)

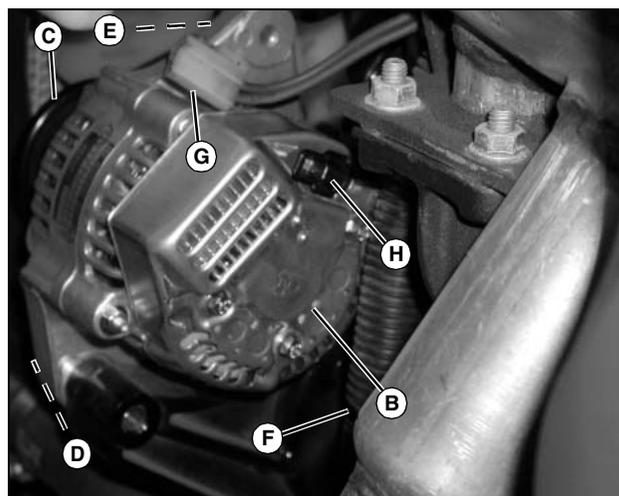
NOTE: Machine serial numbers 40001- require a different adjusting bracket be installed before you install the new alternator.



MX34978

Picture Note: Shown with new alternator already installed.

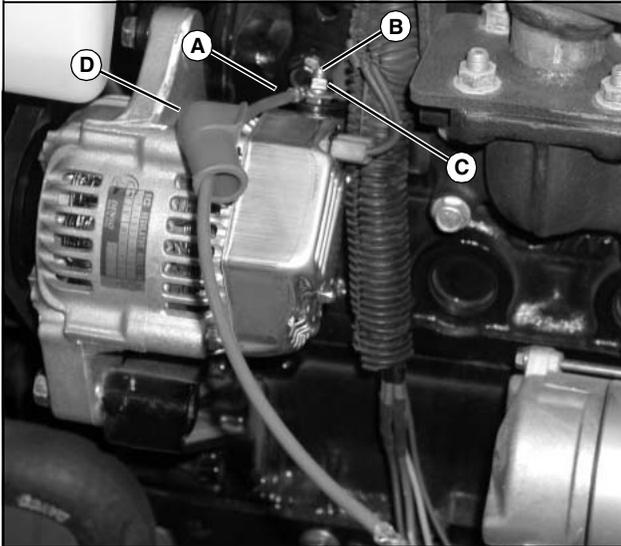
1. Remove old alternator adjusting bracket, and install new adjusting bracket (A) with the same hardware.



MX17581

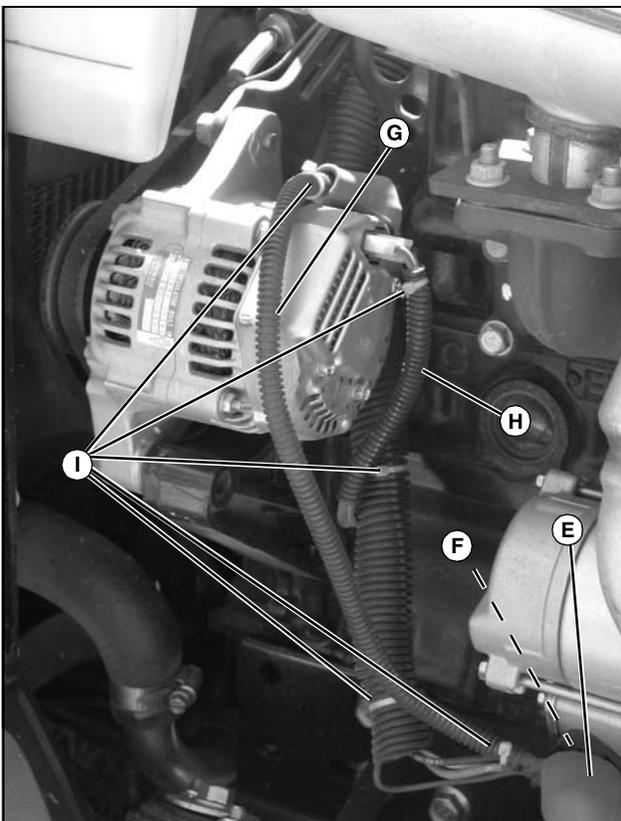
2. Install new alternator (B) by aligning belt on alternator pulley (C), install and loosely tighten bottom bolt (D) and then top bolt (E).
3. Tension the belt using the adjusting bolt. Belt deflection should be 10 - 15 mm (0.40 - 0.60 in.) when belt is depressed inward.
4. Tighten mounting bolts.
5. Cut and remove tie strap (F) from main harness to release alternator lead. Connect alternator lead (G) from main harness to alternator at connector (H).

Install Starter Jumper to Alternator



MX17583

1. Install 1/4 in. hole end of starter jumper (A) to alternator output post (B) using M6 nut (C).
2. Install boot (D) over alternator output post (B).



MX17580

3. Remove boot (E) from positive battery post on starter. Remove and retain nut. Install 3/8 in. hole end (F) of starter jumper on positive battery post and secure with nut.
4. Install boot (E) on positive battery post on starter.

IMPORTANT: Avoid damage! Route wiring harness connections away from moving parts and pinch points. Use tie straps to secure harness to machine to prevent damage.

5. Cut a length of conduit (G) to fit starter jumper and install. Cut a length of conduit (H) to fit alternator lead and install. Use tie straps (I) to secure conduit as shown.

Check Electrical System

1. Install negative battery cable.
2. Install hood and connect headlight wiring harness.
3. Turn key to on position. Battery light should come on.
4. Start machine. Battery light should go off.