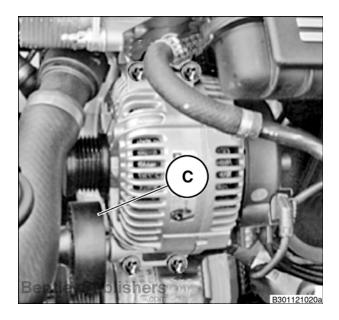
121-20 Battery, Starter, Alternator

Alternator, removing and installing (turbo)



- \blacktriangleleft With alternator on work bench:
 - Remove idler pulley (C) fastener plastic cover, if applicable.
 - Remove idler pulley and transfer to new alternator.

Tightening torques

Idle pulley to alternator housing 40 Nm (30 ft-lb)	Idle pulley to alternator housing	40 Nm (30 ft-lb)
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 Reinstall alternator using new aluminum bolts. Reattach electrical harnesses.

Tightening torques	
Alternator cable to alternator (M8)	19 Nm (14 ft-lb)
Alternator to engine block (M8 x 82 mm aluminum bolts, replace with new)	
Stage 1	10 Nm
• Stage 1 • Stage 2	additional 180°

- Reassemble front of engine. Remember to:
 - Reinstall accessory belt using previously made direction-ofrotation marks.
 - Make sure accessory belt grooves engage pulleys correctly.
 - After reconnecting battery, see **Battery reconnection notes** in this repair group.

Alternator, removing and installing (turbo)

 Switch ignition OFF. Disconnect negative (–) battery cable and cover battery terminal to keep cable from accidentally contacting terminal.

CAUTION-

- Prior to disconnecting the battery, read the battery disconnection cautions in 001 Warnings and Cautions.
- Raise vehicle and support safely.

WARNING -

- Make sure the vehicle is stable and well supported at all times. Use a professional automotive lift or jack stands designed for the purpose. A floor jack is not adequate support.
- Remove splash shield underneath engine compartment. See 020 Maintenance.
- Remove electric fan cowl and fan. See 170 Radiator and Cooling System.
- Remove engine accessory belt. See 020 Maintenance. Mark direction of rotation on belt before removing.
- Remove intake air filter housing. See 130 Fuel Injection.
- Remove left side charge air duct. See **130 Fuel Injection**.