

BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual

## **Specifications**

System type 12-volt negative ground

## **Alternator**

Regulated voltage (at 1500 rpm engine speed with no electrical

equipment switched on) 13.5 to 14.2 volts

## **Starter motor**

Current draw

Four-cylinder models 140 amps maximum Six-cylinder models 170 amps maximum

Ft-lbs (unless otherwise indicated)

## **Torque specifications**

Starter motor-to-transmission nuts and bolts 37

Starter motor support bracket-to-starter motor nuts 48 in-lbs

Starter motor support bracket-to-engine bolts 35

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