



MAINTENANCE & SERVICE

CHECKING BOLT TORQUE

The table shown below provides the correct values for various bolts and cap screws. Tighten all bolts to the torque specified in the chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with same strength bolt.

TORQUE SPECIFICATIONS				
BOLT DIAMETER	BOLT TORQUE			
	SAE 5		SAE 8	
	lb-ft	(N.m)	lb-ft	(N.m)
1/4"	9	(12)	12	(17)
5/16"	19	(25)	27	(36)
3/8"	33	(45)	45	(63)
1/2"	80	(110)	115	(155)
5/8"	160	(215)	220	(305)
3/4"	290	(390)	400	(540)
1"	630	(850)	970	(1320)

Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%. SAE type for bolts and cap screws are identified by their head markings.