6/11/22, 10:50 AM Direct-Hit -- Search

## **Torque Specifications**

**Motor Abbreviation Definitions** 

**Engine Oil Drain Plug Torque** 

Ft. Lbs.

18

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**Spark Plug Torque** 

Min. (Ft. lbs)	Max. (Ft. lbs)
13	13

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## **Intake Manifold Torque**

Procedure:

11 ft./lbs.

**Note:** Starting at center and working outward, alternate tightening all fasteners evenly.

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**Water Pump Torque** 

Step	Min.	Max.
1	18 (ft. lbs.)	18 (ft. lbs.)
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## **Exhaust Manifold Torque**

Procedure:

1st step; 11 ft./lbs.

2nd step; 15 ft./lbs.

3rd step; turn 60 degrees

**Note:** Use new nuts tighten nuts in a crisscross pattern evenly.

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**Crank Pulley Torque** 

Step	Min.	Max.	Note(s)
1	74 (ft. lbs.)	74 (ft. lbs.)	-
2	*180 (degrees)	*180 (degrees)	658

Note \*: Value is given in degrees. Turn the fastener this additional amount past the previous step.

Note 658: Use new bolt(s).

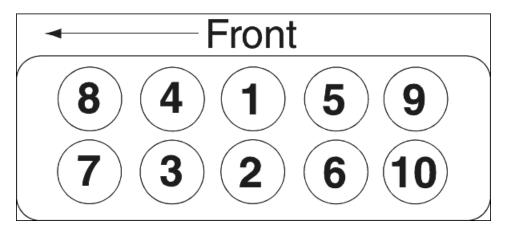
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## **Cylinder Head Torque**

1st step; - 18 ft./lbs. 2nd step; - 22 ft./lbs.

3rd step; - turn 240 degrees

**Note:** Install new cylinder head bolts.



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Front Suspension Torque

	Ftlbs	Nm	Notes
Lower ball joint to steering knuckle	26	35	N6W
Upper strut/shock mounting	16	22	A74
Lower strut/shock mounting	74	100	NRG
Strut center shaft	52	70	-
Anti-roll bar to bracket	16	22	A74
Anti-roll bar to control arm	48	65	-
Spindle nut	111	150	774
Bearing hub to knuckle	66	90	A71

774: Then reverse nut 45° turn torque to 250 Nm 184 ft-lbs.

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**Rear Suspension Torque** 

	Ftlbs	Nm	Notes
Hub to control arm	37	50	A74
Upper strut/shock mounting	16	22	-
Lower strut/shock mounting	74	100	-
Strut center shaft	18	25	ı

A74: Tighten an additional 30°-45°. Use new bolts

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**Steering System Torque** 

	Ftlbs	Nm	Notes
Tie rod stud	26	35	A74
Tie rod clamp or jamb nut	44	60	-
Steering gear mounting bolt	41	55	146
Steering shaft bolt	25	34	-

146: Use a new bolt after tightening to specification, turn an additional 150°-165°.

A74: Tighten an additional 30°-45°. Use new bolts

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Tire Size / Wheel Nut & Bolt Torque / Tire Pressure / Rim Size

Sub model	Standard Tire Size	Optional Tire Size	Wheel Nut/Bolt Torque (FtIbs)	Note
LS	P195/65R15	-	103	ZM2
LT	P215/60R16	-	103	ZM2
Premier	P225/45R17	P225/40R18	103	ZM2

ZM2: See Tire Inflation Pressure Label on the drivers side B-pillar.

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Wheel Fastener Torque

Torque (Ft.Lbs)
100

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