Torque Specifications
Motor Abbreviation Definitions
Engine Oil Drain Plug Torque
Ft. Lbs.
18
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Spark Plug Torque

| Min. <br> (Ft. Ibs) | Max. <br> (Ft. Ibs) |
| :---: | :---: |
| 13 | 13 |

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Intake Manifold Torque

| Procedure: |
| :--- |
| $11 \mathrm{ft} . / \mathrm{lbs}$. |
| 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. Ibs.) | 18 (ft. Ibs.) |
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Exhaust Manifold Torque

## Procedure:

1st step; $11 \mathrm{ft} . / \mathrm{lbs}$
2nd step; $15 \mathrm{ft} . / \mathrm{lbs}$.
3rd step; turn 60 degrees
Note: Use new nuts tighten nuts in a crisscross pattern evendy.

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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; - $18 \mathrm{ft} . / \mathrm{lbs}$. |
| :--- |
| 2nd step; - $22 \mathrm{ft./lbs}$. |
| 3rd step; - turn 240 degrees |
| Note: Install new cylinder head bolts. |



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Front Suspension Torque

|  | Ft.-lbs | 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 $45^{\circ}$ turn torque to $250 \mathrm{Nm} 184 \mathrm{ft}-\mathrm{lbs}$.
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Rear Suspension Torque

| Rear Suspension Torque |  |  |  |  | Ft.-Ibs | 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 | - |  |  |  |  |

A74: Tighten an additional $30^{\circ}-45^{\circ}$. Use new bolts
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Steering System Torque
Steering System Torque

|  | Ft.-Ibs | 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 $150^{\circ}-165^{\circ}$.
A74: Tighten an additional $30^{\circ}-45^{\circ}$. 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 (Ft.-lbs) | 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)

