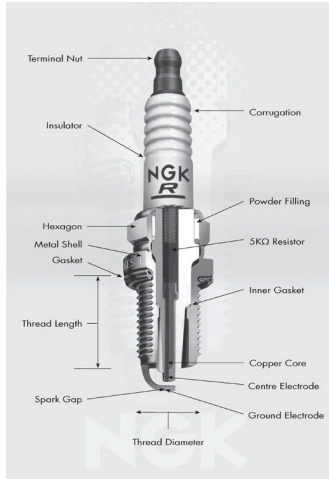




# INSTALLATION INSTRUCTIONS

When installing the spark plug, first screw it in by hand, once the gasket has made contact with the cylinder head, use the torque wrench to tighten it to the tightening torque.



## TIGHTENING TORQUE

Standard tightening torque

Thread Diameter	Tightening Torque
18mm	35~40N·m (3.5~4.0kgm)
14mm	25~30N·m (2.5~3.0kgm)
12mm	15~20N·m (1.5~2.0kgm)
10mm	10~12N·m (1.0~1.2kgm)
8mm	8~10N·m (0.8~1.0kgm)

New gasket  
(excluding ▼ part numbers) 1/3 turn

120°



30°

Re-used gasket  
(excluding ▼ part numbers) 1/12 turn

Tapered seat type (plug without gasket)

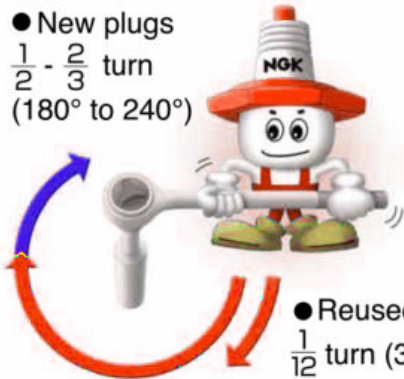
Tightening Torque	10~20N·m (1.0~2.0kgm)
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## FOR REFERENCE

When it is difficult to use a torque wrench, or when you don't have a torque wrench, tighten the spark plug to the tightening angle shown in the illustration in accordance with the thread diameter of the spark plug.

### Spark plugs with thread diameter of 18 and 14 mm

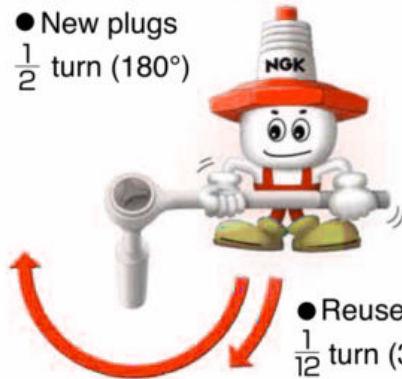
● New plugs  
1/2 - 2/3 turn  
(180° to 240°)



● Reused  
1/12 turn (30°)

### Spark plugs with thread diameter of 12 and 10 mm

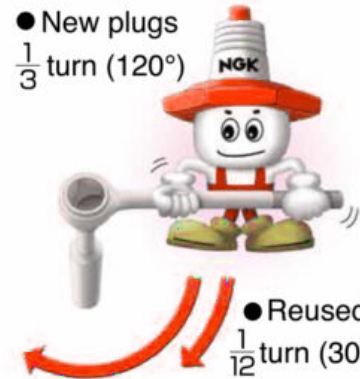
● New plugs  
1/2 turn (180°)



● Reused  
1/12 turn (30°)






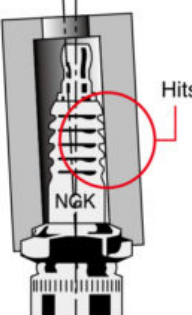
### Spark plugs with thread diameter of 8 mm

● New plugs  
1/3 turn (120°)



● Reused  
1/12 turn (30°)

## Examples of common installation problems and advise to avoid them.

Thread damage from installation	Metal shell damage	Cracked insulator	Examples of bad spark plug wrench usage
Damage to the ridges of the first and second threads  Damage to the ridges of the threads	Damage to the caulked portion  Damage to threads 	Damage to the caulked portion  Damage at the corrugation 	 Hits
<b>Spark plug is inserted at an angle during installation</b> Do not use the wrench at first. Start by installing the spark plug by hand.	<b>Excessive tightening torque</b> Tighten to recommended torque.	<b>Spark plug wrench slipped or used at an angle</b> Use a hex-type wrench that is less likely to slip.	