



# C SERIES CYLINDER HEAD BOLTS

## DID YOU KNOW.....

All C series engines require that the used head bolts be discarded and replaced with new head bolts every time there is a repair.



Used TTY (Torque-To-Yield) head bolts will snap in the process of re-torquing the cylinder head. If they do not snap, the already permanently stretched bolts will stretch even further and rapidly lose clamping load. The loss of clamping load could ultimately lead to head gasket failure.

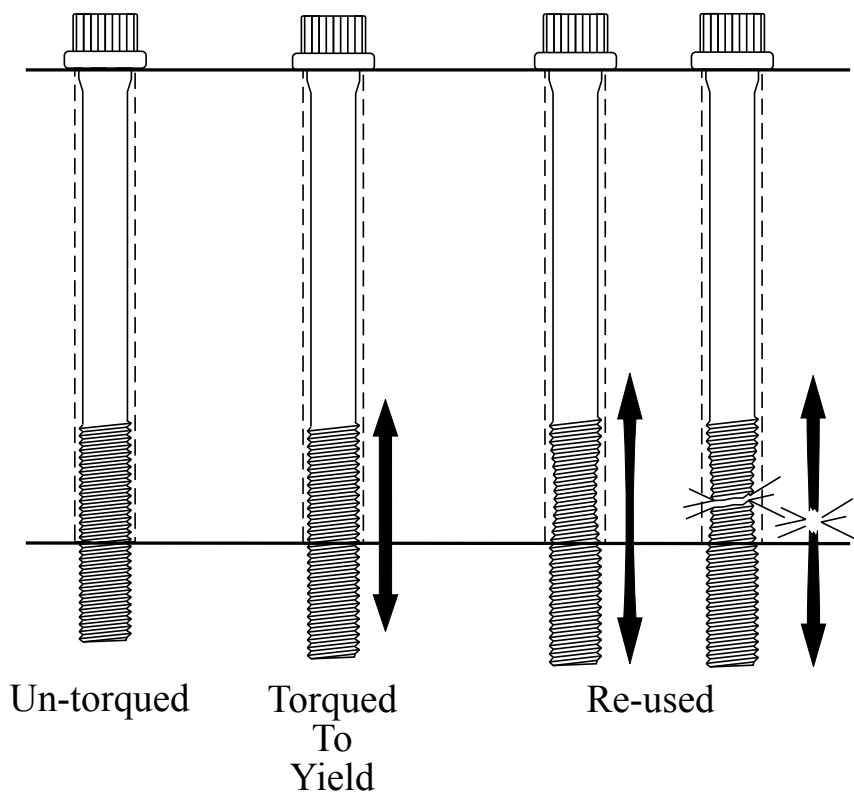


Reduced-shaft bolt

Roll-shaft bolt

The way Torque-To-Yield bolts work is simple; the bolts are longer and thinner when compared to early bolt designs.

When these bolts get torqued (tightened) “to yield” meaning to almost the breaking point, the bolts will stretch. This stretching (like a spring) provides a constant clamping force on the cylinder head.



When an engine operates, the cylinder head expands as it heats up and contracts when it cools down. The spring like clamping force of the TTY bolts allows for this expansion and contraction without losing the clamping pressure on the cylinder head, and thus maintaining the sealing integrity of the head gasket.

### C-Series Head Bolts -

Engine	Part No.	Description	Specifications	REQ.
C7	2768134	BOLT		14
C9	2632915	BOLT-12 POINT	M16-2.00 X 180MM 12 POINT	26
	9X8268	WASHER	17.5 X 30 X 3.5 MM THK	26
C10	1750454	HEAD BOLT	M16X2X160-MM	26
	2S5658	WASHER HARD	17 X 29 X 3MM THK	26
C11, C13	2421811	BOLT HEX	M16 - 2.00 X 220MM 12.9 HX PL	26
	2104460	HEX CAP SCREW	M10 - 1.50 X 130MM 10.9 PLAIN ST	8
	2S5658	WASHER HARD	17 X 29 X 3MM THK	26
C12	1750454	HEAD BOLT	17 X 29 X 3MM THK	26
	2S5658	WASHER HARD	17 X 29 X 3MM THK	26
C15, C16, C18	1241855	BOLT-12 POINT HEAD	3/4 - 16 X 7.638 - IN.	16
	5H1504	WASHER HARD	20 X 33.5 X 5 MM THK	26
	1241854	BOLT-12 POINT HEAD	3/4 - 16 X 8.5 - IN.	10
C27, C32	1241855	BOLT-12 POINT HEAD	3/4 - 16 X 7.638 - IN.	32
	5H1504	WASHER HARD	20 X 33.5 X 5 MM THK	52
	1241854	BOLT-12 POINT HEAD	3/4 - 16 X 8.5 - IN.	20
C30	2K2813	BOLT	3/4 - 16 X 10 - IN.	40
	5H1504	WASHER HARD	20 X 33.5 X 5 MM THK	40

\* Other part no. not included in the list are available. Please contact your sales representative if you have any questions.  
Part Numbers are used for reference purposes only