

Technical Service Bulletin Number
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TSB120053



Technical Service Bulletin

Subject

ISX15 and QSX15 Wide Valve Camshaft Lobe and Valve Rocker Lever Roller Release

Issue

To improve the robustness of the ISX15 and QSX15 valve camshaft, the camshaft lobe and rocker lever rollers were widened. Increasing the width of these two components reduces the contact stress between the camshaft and the rocker lever rollers.

Verification

A compatibility matrix **must** be used to determine whether non-malfunctioning parts **must** be replaced. This matrix is shown in the camshaft and rocker lever Clean and Inspect for Reuse sections of the engine service manuals. The matrix is shown below.

Resolution

These new parts are **not** fully backward compatible to the previous versions of the valve camshaft and valve rocker lever roller.

Table 1, Parts Description

Item	Wide Part Numbers	Wide Part Width	Narrow Part Numbers	Narrow Part Width
Camshaft	4298626	20 mm [0.79 in]	4059331	18.5 mm [0.73 in]
Camshaft	4298627	20 mm [0.79 in]	4059333	18.5 mm [0.73 in]
Camshaft	4298628	20 mm [0.79 in]	3685963	18.5 mm [0.73 in]
Camshaft	4298629	20 mm [0.79 in]	3685964	18.5 mm [0.73 in]
Front Exhaust Rocker Lever	4386045	17 mm [0.67 in]	4972816	15 mm [0.59 in]
Rear Exhaust Rocker Lever	4386046	17 mm [0.67 in]	4972817	15 mm [0.59 in]
Front Intake Rocker Lever	4386047	17 mm [0.67 in]	4972818	15 mm [0.59 in]
Rear Intake Rocker Lever	4386048	17 mm [0.67 in]	4972819	15 mm [0.59 in]

Table 2, Compatibility Matrix

	Wide Camshaft Lobe	Narrow Camshaft Lobe
Wide Rocker Lever Roller	Yes	No
Narrow Rocker Lever Roller	Yes	Yes

NOTE: These design changes do not affect the maintenance intervals described in the Operation and Maintenance manuals or Owner's manuals for these engines.

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Document History

Date	Details
2012-2-21	Module Created
2016-9-6	Modified rocker lever item description and updated wide part numbers in Table 1.

Last Modified: 01-Nov-2016

