

Component Procedures: Timing Components

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Component Procedures: Timing Components

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Left Bank?	B	4.3	0.0
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Left Bank?	B	3.8	2.6
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Left Bank?	B	3.8	2.6
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Right Ban?	B	4.0	0.0
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Right Ban?	B	3.5	2.4
Remove & Replace	Camshaft & Timing > Camshaft, R&R > Right Ban?	B	3.5	2.4
Remove & Replace	Camshaft & Timing > Front Cover, R&R	B	5.9	4.2
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Prima?	B	8.0	0.0
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Prima?		0.2	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Prima?		0.1	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Prima?		0.1	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?	B	8.6	0.0
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.2	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.1	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.1	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?	B	7.6	0.0
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.2	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.1	
Remove & Replace	Camshaft & Timing > Timing Chain, R&R > Secon?		0.1	
Remove & Replace	Crankshaft & Bearings > Front Crank Seal, R&R	B	1.3	0.0
Remove & Replace	Crankshaft & Bearings > Front Crank Seal, R&R?		0.3	
Remove & Replace	Variable Valve Timing > Actuator, R&R > Left ?	B	6.7	4.3
Remove & Replace	Variable Valve Timing > Actuator, R&R > Left ?	B	6.7	4.3
Remove & Replace	Variable Valve Timing > Actuator, R&R > Right?	B	6.4	4.1
Remove & Replace	Variable Valve Timing > Actuator, R&R > Right?	B	6.4	4.1
Remove & Replace	Variable Valve Timing > Solenoid, R&R > One	B	0.5	0.4

Setting Camshaft Timing (Article 12206)

Follow the left bank secondary camshaft drive chain replacement procedures to reset the camshaft timing. Refer to Secondary Camshaft Intermediate Drive Chain Replacement - Left Side .

Torque Reaction Against Timing Drive Chain Caution (Article 13098)

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Caution:

A wrench must be used on the hex of the camshaft

when loosening or tightening in order to prevent component damage. Failure to prevent the torque reaction against the timing drive chain can lead to timing drive chain failure.

All Technical Service Bulletins (itype_100)

Tsbs

- Engine - Supplemental Timing Information (PIP4384H, 2014/01/16)

Repair Tips (itype_110)

Tsbs

- Engine - Supplemental Timing Information (PIP4384H, 2014/01/16)