

Test Monitoring Center

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Sequence IIIF Information Letter 17-3 Sequence No. 48 May 31, 2017

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence III Mailing List

SUBJECT: Re-Use of Connecting Rods

As a result of a recent Sequence III Surveillance Panel conference call, the panel agreed to allow the connecting rods, part number 12593374, to be re-used as long as excessive wear or deformation is not present and they conform to the Fit-in-rod clearance. This part number has been removed from Table A5.1 and is now shown in Table A5.2 and revised Tables A5.1 and A5.2 are attached. Cleaning requirements have been added to section 9.4.1. The changes have been highlighted in red in Tables A5.1 and A5.2. This change is to be accomplished with a successful reference completing after May 18, 2017.

Michael Raney

Michael P. Raney Engine Oil Test Development and Support GM Powertrain Materials Engineering

Frank m Failer

Frank M. Farber Director ASTM Test Monitoring Center

Attachments

c: <u>ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIF/IL17-3_IIIF.pdf</u>

Distribution: Electronic Mail

Modifies Test Method D6984-17, as amended by Information Letters 17-1 and 17-2

9.4.1 Clean the connecting rods by soaking in solvent for a minimum of 2 h. Spray the rods with a 50/50 mixture of solvent and EF-411.

9.4.1.1 Connecting rods may be reused, providing that the connecting rod and bushing do not show excessive wear or deformation and meet the fit-in-rod specification of 0.0066 - 0.0217 mm. When re-using connecting rods, clean the connecting rods using the procedure defined for the cylinder block in section 9.5.3.1, *If Using the Ultrasonic Cleaner Parts Washer*. After cleaning, soak the rocker arms in EF-411 for a minimum of 1 h prior to installation.

TABLE A5.1 Parts to be Replaced Every Test Part Description Part No.

Part Description Part No.	
Arm, rocker with pivot bearing	OHT3F-058-1
Bearing, kit, engine	OHT3F-042-2
Kit includes:	
Bearing, connecting rod, kit, upper and lower, OH-106	
assy	
	3F042-01
Main bearing kit, OH101 assy, includes:	3F042-02
Bearing, balance shaft front (part of 24502388)	SKF6205-2ZNRJEM
Bearing, main, lower, No.1 and 3	OH-102
Bearing, main, lower, No.4	OH-102 OH-103
Bearing, main, lower, flange, No.2	OH-103 OH-104
Bearing, main, upper, flange, No.2	OH-105
Bearing, cam bushing, positions 1 and 4	3F028-09
Bearing, cam bushing, positions 2 and 3	3F028-10
Bolt, camshaft sprocket	24501366
Bolt, cylinder head, long	25527831
Bolt, cylinder head, short	25533811 or
	88891770
Bolt, flywheel	24505092
Bolt, main cap	24503056
Bolt, main cap, side	24505576
Bolt, rear cover housing	24503970
Bolt, rocker arm, special test	3F-058-02
Bolt/screw, thrust plate retainer	25519242
Camshaft, special test,	20010242
including manganese-phosphate coating	
including manganese-prospilate coating	OHT3F-008-6
Cap, valve spring retainer	24502257
Chain, timing	24504668
Clip, retainer, piston pin	OHT3F-012-1
Cooler, oil, nickel plated, bypass closed	OHT3F-030-2
Damper, timing chain (includes bolt, retaining	011131-030-2
	24503893
ring) Filter Dro Too	OHT3F-057-3
Filter, Pro Tec	
Gasket kit, intake manifold lower	89017399 or
Gasket, cylinder head, left	89017816
	24502002
	24503802
Gasket, cylinder head, right	24503801
Gasket, cylinder head, right Gasket, front cover	24503801 12587003
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter	24503801 12587003 25534742
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan	24503801 12587003 25534742 OHT3G-093-1
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter	24503801 12587003 25534742 OHT3G-093-1 24501259 or
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump	24503801 12587003 25534742 OHT36-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder	24503801 12587003 25534742 OHT36-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260BA
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260B or 24502260SA 24500260SA
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260B a 24502260SA 245002618 1016634
Gasket, cylinder head, right Gasket, front cover Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A)	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260B or 24502260B 24502260B 1016634 OHT3F-029-3
Gasket, cylinder head, right Gasket, front cover Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, is suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260SA 24500618 1016634 OHT3F-029-3 OHT3F-029-3
Gasket, cylinder head, right Gasket, front cover Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260SA 245002618 1016634 OHT3F-029-3 OHT3F-053-1 OHT3F-054-1
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24502433 24501565 24502260B or 24502260B ar 24502260SA 24500618 1016634 OHT3F-053-1 OHT3F-054-1 OHT3F-055-1
Gasket, cylinder head, right Gasket, front cover Gasket, foil filter adapter Gasket, oil filter adapter Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, 1520 in. thickness	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 245022608 or 245022608 4245000618 1016634 OHT3F-029-3 OHT3F-053-1 OHT3F-055-1 OHT3F-055-1 OHT3F-055-1 OHT3F-011-2
Gasket, cylinder head, right Gasket, front cover Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, is ution tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, .1520 in. thickness Plug, engine block core hole Plug, cylinder head core hole	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260B or 24502260B ar 24502260B 1016634 OHT3F-029-3 OHT3F-053-1 OHT3F-055-1 OHT3F-055-1 OHT3F-051-1 OHT3F-011-2 24500867
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, .1520 in. thickness Plug, cylinder head core hole Plug, cylinder head cop	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 245022608a 245022608a 24500618 1016634 OHT3F-029-3 OHT3F-029-3 OHT3F-053-1 OHT3F-055-1 OHT3F-055-1 OHT3F-051-2 24500867 3835577
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil gan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, .1520 in. thickness Plug, engine block core hole Plug, cylinder head corp Plug, engine block, oil gallery	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260SA 24500618 1016634 OHT3F-029-3 OHT3F-053-1 OHT3F-054-1 OHT3F-055-1 OHT3F-051-1 OHT3F-055-1 OHT3F-051-1 OHT3F-055-1 OHT3F-051-2 24500867 3835577 24502262
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil pan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, 1520 in. thickness Plug, engine block core hole Plug, cylinder head cup Plug, engine block, oil gallery Plug, ignition spark	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260B or 24502260B ar 24500618 1016634 OHT3F-029-3 OHT3F-053-1 OHT3F-055-1 OHT3F-055-1 OHT3F-055-1 OHT3F-055-1 OHT3F-011-2 24500867 3835577 24502262 3835577 R42LTSM
Gasket, cylinder head, right Gasket, front cover Gasket, oil filter adapter Gasket, oil gan Gasket, oil suction tube Gasket, rear cover housing Gasket, rocker cover Gasket, water outlet Gasket, water outlet Gasket, water pump Head, cylinder Key, camshaft sprocket Key, valve stem keeper Lifter, test ACI w/ flat (25338738A) Piston, test, runs 1 and 2, grade 12 Piston, test, runs 3 and 4, grade 34 Piston, test, runs 5 and 6, grade 56 Plate, camshaft thrust, .1520 in. thickness Plug, engine block core hole Plug, cylinder head corp Plug, engine block, oil gallery	24503801 12587003 25534742 OHT3G-093-1 24501259 or 12581570 24507388 25532619 24502433 24501565 24502260B or 24502260SA 245002618 1016634 OHT3F-053-1 OHT3F-053-1 OHT3F-055-1 OHT3F-055-1 OHT3F-055-1 OHT3F-0511-2 24500267 3835577 24502262 3835577

Retainer clip, piston pin pkg. of 12 1 ea. ring, piston, run 1, engine set 1 ea. ring, piston, run 2, engine set 1 ea. ring, piston, run 3, engine Set 1 ea. ring, piston, run 5, engine Set 1 ea. ring, piston, run 5, engine Set 1 ea. ring, piston, run 6, engine Set Rod, connecting (powdered metal)	OHT3F-012-1 OHT3F-050-RUN1 OHT3F-050-RUN2 OHT3F-051-RUN3 OHT3F-051-RUN4 OHT3F-052-RUN5 OHT3F-052-RUN6 12593374
Seal, crankshaft front oil (24504098)	OHT3G-092-1
Seal, crankshaft rear oil (25534760)	OHT36-091-1
Seal, exhaust valve stem	OHT3F-061-1
Seal, intake valve stem	OHT3F-060-1
Spring, oil relief valve	1262505
Spring, valve special test (color code yellow)	OHT3F-059-5
sprocket, camshaft	24505306
Valve, exhaust (STD)	12579949
Valve, intake (STD)	12569550

^A These heads may be used for non-reference testing on or after March 18, 2014, provided that the laboratory has conducted a successful reference oil test.

TABLE A5.2 Parts to be Replaced As Needed

Part Description	Part Number
ADAPTER, BLOWBY BREATHER TUBE	OHT3F-040-1
ADAPTER, OIL FILTER	OHT3F-035-1
Adapter, Oil Filter, with External Bypass	OHT3F-080-1
Adapter, Throttle Body, Air Inlet	OHT3F-001-2
Balancer, Harmonic	12563267
Bearing, Balance Shaft Front (part of 24502388)	SKF6205-2ZNRJEM
Block, Engine Assembly	24502286
Bolt, Connecting Rod	11610158
Bolt, Counter Balance Gear	24501367
Bolt, Counter Balance Shaft Retainer	24500055
Bolt, Engine Front Cover	24504712
Bolt, Harmonic Balancer	24504736
Bolt, Lower Intake	9440227
Bolt, Oil Filter Adapter	24504713
Bolt, Oil Pan	1160052
Bolt, Oil Suction Tube	24505570
Bolt, Rear Cover Housing	11518075
Bolt, Rocker Cover	24502164
Bolt, Screw Camshaft Sensor	25526395
Bolt, Screw, Oil Gearotor, Cover	25519242
Bolt, Stud Type, Front Cover & Crankshaft Sensor (long)	24504718
Bolt, Stud Type, Front Cover & Crankshaft Sensor (short)	24504717
Bolt, Upper Intake Long	24505205
Bolt, Upper Intake Short	24506498
Bolt, Upper Intake, Stud	24502453
BRACKET, BREATHER TUBE	OHT3F-041-1
BREATHER TUBE, S.S. MATERIAL	OHT3F-075-1
Bushing, Balance Shaft Rear	24503193
BUSHING, ROCKER COVER	OHT3F-028-1
BUSHING, ROCKER COVER	OHT3F-028-2
Coil, Ignition	10472401 or 89056799
CONNECTOR, MODIFIED FOR LENGTH, GM PN 24502883	OHT3F-039-2

Part Description	Part Number
COVER, FRONT, IMPREGNATED	OHT3G-085-1
COVER, Rear, crankshaft rear seal housing	OHT3G-088-1
Cover, Oil Gearotor	25521935
Cover, Rocker Arm Valve Cover Left Side Plastic	12590366
Crankshaft	24502168
Cylinder Head	24502260S
DIP STICK, METRIC, EXTENDED LENGTH	OHT3G-064-1
FITTING, OIL FILTER ADAPTER	OHT3F-043-1
FLYWHEEL, MANUAL, MODIFIED P.N. 24503285	OHT3F-020-2
GASKET, EXHAUST, END PLATE	OHT3F-009-1
GASKET, EXHAUST, FLANGE, METAL	OHT3F-018-1
Gasket, Manifold, Upper Intake	89017556
GASKET, OIL COOLER, PKG. OF 50	OHT3F-074-1
GASKET, OIL FILTER, PKG. OF 50	OHT3F-062-1
Gear, Balanceshaft Drive	24504792
Gear, Balanceshaft Driven	24503524
Gear, Counter Balance Drive	24504792
Gear, Counter Balance Shaft	24503524
Grommet, Rocker Arm Valve cover bolt	25534749
HARNESS, COIL PACK SEGMENT	3F022-2
HARNESS, FUEL INJECTOR SEGMENT	3F022-1
HARNESS, WIRING, DYNO W/ OHT3F-056-1 SENSOR	OHT3F-022-1
HOUSING, ASSEMBLY, BYPASS VALVE	OHT3F-084-1
Injector, Fuel	17120601
Key, Crankshaft	12563282
Magnet, Camshaft Position Sensor	10456195
MANIFOLD, CAST IRON	OHT3F-003-0
MANIFOLD, EXHAUST, WATER COOLED ASSY (ONE BANK)	OHT3F-003-1
ASSEMBLY INCLUDES:	
1 EA. RUNNER, EXHAUST MANIFOLD	OHT3F-004-1
1 EA. PLATE, REAR, EXHAUST MANIFOLD	OHT3F-005-1
1 EA. ELBOW, EXHAUST, MODIFIED	OHT3F-005A-1
1 EA. PLATE, FRONT, EXHAUST MANIFOLD	OHT3F-006-1
2 EA. GASKET, EXHAUST, END PLATE	OHT3F-009-1
1 EA. GASKET, EXHAUST, FLANGE, METAL	OHT3F-018-1
Manifold, Lower Intake	24508923
Manifold, Upper Intake	89017272
METER, BLOWBY	RX-116169-A1 REV N
Module, Coil Pack	12617924
MOUNT FRONT ENGINE W/ BOLT PATTERN FOR COIL PACK	OHT3F-026-1
MOUNT, REAR ENGINE HOUSING W/AIR STARTER, MUFFLER & SHIM PACK	OHT3F-025-1
ASSEMBLY INCLUDES:	
STARTER, AIR	3F025-03
MUFFLER, STARTER, AIR	3F025-04
SHIM PACK, STARTER, AIR MUFFLER, STARTER, AIR	3F025-05 3F025-04
Nut, Throttle Body Fuel Rail Retainer	3530297
	3530297
OIL FILTER HOUSING ASSEMBLY, NO BYPASS, IMPREGNATED	OHT3G-080-1
	OHT3F-034-1
PAN, IIIF TEST, NICKEL PLATED	OHT3F-073-1
PCM, SPECIAL	OHT3F-021-1

Part Description	Part Number
PCV, DUMMY	OHT3F-002-1
Pin, Cylinder Head Locating	25536320
Pin, Front Cover Lower	25536323
Pin, Front Cover Upper	24501162
Pin, Piston, wrist package of 6	OHT3F-014-1
Pin, transmission locating	12338076
PLATE, EGR BLOCKOFF	OHT3F-024-1
PLATE, FRONT, EXHAUST MANIFOLD	OHT3F-006-1
PLATE, REAR, EXHAUST MANIFOLD	OHT3F-005-1
PLATE, WATER PUMP HOUSING	OHT3F-031-1
Plug, Auto Hex, Socket, (Main Oil Gallery Block Off)	444777
PLUG, DIP STICK	OHT3F-065-1
PLUG, DRAIN, MODIFIED	OHT3F-063-1
Pump, Oil, Gearoter Set	24505433
Rail, Fuel Injector	12587077
REAMER, DIP STICK AND DIP STICK HOLE PLUG	OHT3F-071-1
Regulator, Fuel Pressure, on Rail	89017530 or 89060416
Retainer, Counter Balance, Timing Chain Oiler	24500374
Retainer, Rocker arm (replace after 6 tests)	24502278
Rocker arm assembly	OHT3F-58-1
Rod, connecting (powdered metal)	12593374
RUNNER, EXHAUST MANIFOLD	OHT3F-004-1
Screen, Oil pump (w/suction pipe)	24505569
Seal, Ignition Coil	1989579
Seal, oil pan drain plug (o ring)	3536966
Sensor, Camshaft Position	10456148
Sensor, Crankshaft Position	10456161
Sensor, MAF	19112543 or 19179715
SENSOR, MODIFIED COOLANT TEMPERATURE	OHT3F-056-1
Shaft Assembly, Counter Balance	24506557
Shield, Crankshaft Position Sensor	24506440 or 12591982
SHIM PACK, STARTER, AIR	3F025-05
SHIM, STEEL, 0.127 mm THICK, 10 PER PKG.	OHT3F-072-005
SHIM, STEEL, 0.254 mm THICK, 10 PER PKG.	OHT3F-072-010
SHIM, STEEL, 0.381 mm THICK, 10 PER PKG.	OHT3F-072-015
SHIM, STEEL, 0.508 mm THICK, 10 PER PKG.	OHT3F-072-020
SHIM, STEEL, 0.787 mm THICK, 10 PER PKG.	OHT3F-072-031
SLEEVE, VALVE STEM PROTECTORS (PKG. OF 100)	OHT3F-070-1
SPROCKET, CRANKSHAFT, SPECIAL 2 PC	OHT3F-036-1
STARTER, AIR	3F025-03
Stud, front cover (2)	24504717
Stud, front cover (2)	24504718
Support, throttle body	24504697
Throttle Body (2 Bolt Mass Air Flow Sensor)	24507235
TOOL, CAMSHAFT BUSHING INSTALLATION	OHT3F-019-2
TOOL, OIL PUMP PRIMER	OHT3F-038-1
Tube, throttle body to fuel pressure regulator	24505671