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SERVICE INSTRUCTION

DATE: July 29, 2025

Service Instruction No. 1037AA

(Supersedes Service Instruction No. 1037Y)

Engineering design data in this service document is FAA approved.

SUBJECT: Approved Pistons, Rings, Cylinders, and Gasket Set Application for Use on Lycoming Aircraft Engines

MODELS AFFECTED: All Lycoming opposed series aircraft engines in Table 1.

TIME OF COMPLIANCE: When installing new rings, pistons, valves and cylinders.

REASON FOR REVISION: Added new NOTICE before Table 1 to clarify the cylinder part number marking and the listed cylinder part number in Table 1. Updated the exhaust valve part number for O-290 engine models. Updated the oil regulating piston ring part numbers on the Piston Ring Kits for Single Cylinders page and in Table 1. Added 3 rows on page 15 that were deleted in error. Added TEO-540 Series to list of Seal and Gasket Kits – Cylinders Only and Piston Ring Kits for Single Cylinders. Updated piston part number 75984-S to 14C31646 where applicable.

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

This Service Instruction identifies part numbers for pistons, rings, cylinders and valve combinations currently available for use in Lycoming engines in Table 1.

⚠ CAUTION: CHROME PLATED PISTON RINGS (IDENTIFIED BY THE LOWERCASE LETTER “c” AFTER THE PART NUMBER) ARE USED IN PLAIN OR NITRIDED STEEL CYLINDER BARRELS, BUT NEVER IN CHROME PLATED BARRELS. SERIOUS ENGINE DAMAGE WILL OCCUR IF CHROME PLATED PISTON RINGS ARE INSTALLED IN CHROME PLATED CYLINDER BARRELS.

NOTICE: Chrome plated cylinder assemblies and kits containing chrome plated cylinders are no longer available from Lycoming Engines. However, compatible piston and ring combinations used with chrome plated cylinders are still available and identified herein.

NOTICE: For replacement piston rings, there could be different piston ring combinations for cylinders with different materials use for the barrel.

Engine models that have serial number suffix “A” or “E” are built with crankcase configurations for wide cylinder base mounting flanges, and consequently must be assembled with “wide deck” cylinders.

Engines with no serial number suffix require “narrow deck” cylinders. Refer to the latest revision of Lycoming Service Letter 220 for additional information on differences between Narrow Deck and Wide Deck Engines.



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SEAL AND GASKET KITS – COMPLETE ENGINE

Seal and Gasket Set

Model Application

61499-1	O-235-C, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P
69371-1	O-290 Series
69371-1	O-320, IO-320 Narrow Deck
LW-16850	O, IO, LIO, AEIO-320 Wide Deck
LW-12636	O-320-D2J Wide Deck, AIO-320 Wide Deck
LW-14815	O-320-H Series
69371-1	O-340 Series
75439-1	O-360-A, -B, -C, -D
	HO-360-A1A, -B1A, -B1B
	IO, HIO-360-B Narrow Deck
	O-360-A, -B, -C, -D, -F, -G, -J Wide Deck
	IO, HO-360-C1A, HIO-360-B
	IO-360-F1A, -L2A, -M1A
	LO-360-A1H6, -A1N6 Wide Deck
	AEIO-360-B, -H1A, -H1B, Wide Deck
05K28420	IO-360-N1A
75441-1	IO, HIO-360 Narrow Deck
	IO-360-A, -C, -D, -K
	HIO-360-A, -C; LIO, LHIO-360-C Wide Deck
	AEIO-360-A, -C Wide Deck
LW-12937	HIO-360-D1A
05K23418	HIO-360-G1A Wide Deck
LW-10964	AIO-360-A1A, -A1B, -B1B
LW-12945	O, LO-360 Wide Deck (Dual Magneto)
LW-12944	IO-360 Wide Deck (Dual Magneto)
LW-14845	HIO-360-E, -F Wide Deck (Dual Magneto)
	LHIO-360-F Wide Deck (Dual Magneto)
LW-14976	TO-360-C, -F Wide Deck (Dual Magneto)
78913-1	TIO-360-A Wide Deck
LW-14815	O, LO-360-E1A6D ('76 Series)
LW-16765	TO, LTO-360-E1A6D ('76 Series)
71187-1	VO-360-A1A, -A1B, -B1B
	IVO-360-A1A Narrow Deck; IVO-360-A1A Wide Deck
05K28420	IO-390-A Series
05K28818	IO-390-C, -D Series
05K26640	HIO-390-A Series, AEIO-390-A Series

NOTE: N.L.A. Indicates "No Longer Available".

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SEAL AND GASKET KITS – COMPLETE ENGINE (CONTINUED)

Seal and Gasket Set

Model Application

68378-1	O-435-A N.L.A.
69448-1	GO-435-C2, -C2B, -C2B1, -C2B2, -C2B26, -C2E
70378-1	GO-435-C2A, -C2A2 N.L.A.
74038-1	TVO-435-A, -B
71900-1	VO-435-A Series
76911-1	VO-435-B1A
77203-1	TVO-435-A, -B, -D, -G
LW-13494	TVO-435-F
69448-1	GO-480-B, -F6 Series; GO-480-C2, -G2 Series
69949-1	GO-480-D1A, -D1B; GO-480-C1B6, -G1B6, -G1E6
71197-1	GO-480-C1D6, -G1A6, -G1D6, -G1F6, -G1G6, -G1J6; IGO-480-A1B6
71181-1	GSO, IGSO-480 Series
71569-1	O-540-A, -B, -E, -F, -G, -H, -J and IO-540-C, -D, -J, -N, -R, -T, -V, -W, -AB1A5, -AF1A5 Narrow Deck and Wide Deck (Parallel Valve Head)
73185-1	IO-540-A, -B, -E, -G, -H, -K, -L, -M, -P, -S Narrow Deck and Wide Deck (Angle Valve Head)
LW-13378	O-540-B, -E, -G, -H Wide Deck (Dual Magneto)
LW-18072	IO-540-AA1A5 Wide Deck
05K22679	IO-540-AC1A5 Wide Deck
05K23341	IO-540-AE1A5 Wide Deck
LW-13367	IO-540-K, -L, -M, -U Wide Deck (Dual Magneto) AEIO-540-L1B5D Wide Deck (Dual Magneto)
LW-13377	IO-540-C, -N, -T, -V, -W and O-540-J, -L Wide Deck (Dual Magneto)
LW-14476	AEIO-540-D4A5, -D4B5, -D4D5 Wide Deck
05K29134	TEO-540 Series
77175-1	TIO-540-A Series Narrow Deck; TIO-540-A2C Wide Deck
LW-10683	TIO-540-C1A, -E1A, -H1A Narrow Deck; TIO-540-C1A, -C1AD Wide Deck
LW-12971	TIO-540-G1A Narrow Deck
LW-15381	TIO, LTIO-540-R2AD Wide Deck (Dual Magneto)
LW-15903	TIO-540-S1AD Wide Deck

NOTE: N.L.A. Indicates “No Longer Available”.

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SEAL AND GASKET KITS – COMPLETE ENGINE (CONTINUED)

Seal and Gasket Set

Model Application

LW-12956	TIO, LTIO-540-F, -J, -N (Dual Magneto)
LW-18072	TIO, LTIO-540-U2A Wide Deck
LW-19180	TIO-540-K1AD, -AA1AD Wide Deck
LW-18656	TIO, LTIO-540-J2B Wide Deck
LW-18786	TIO, LTIO-540-V2AD Wide Deck
LW-19259	TIO, LTIO-540-W2A Wide Deck
05K19387	TIO-540-AB1AD, -AB1BD Wide Deck
05K21002	TIO-540-AE2A Wide Deck
05K21173	TIO-540-AF1A, -AF1B, -AG1A Wide Deck
05K22781	TIO-540-AJ1A Wide Deck
05K22599	TIO-540-AH1A Wide Deck
05K23204	TIO-540-AK1A
73203-1	IGO-540-A Series
73345-1	IGO-540-B Series
73203-1	IGSO-540-A, -B Series
71900-1	VO-540-A, -B, -C; IVO-540-A1A
74445-1	TIVO-540-A2A, -A2B
77816-1	TIO-541-E Series
LW-11365	TIGO-541-E
LW-15583	TIGO-541-D1B N.L.A.
05K23258	IO-580-B1A
05K26549	AEIO-580-B1A
75181-1	O-720-A, -B, -C, -D Series Narrow Deck
LW-15423	IO-720-A1B, -B1B, -B1BD, -D1B, -D1C, -D1CD Wide Deck

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SEAL AND GASKET KITS – CYLINDERS ONLY

ALL CYLINDERS

SINGLE CYLINDERS

LW-12040	05K22948	Four Cylinder Parallel Valve Head Engines – O-235 Series
LW-12038	05K22946	Four Cylinder Parallel Valve Head Engines – O-290; O, IO, LIO-320; AIO, AEIO-320; O-340; O-360-A, -B, -C, -D, -F, -J; IO-360-B, -E, -F, -L; LO-360-A; AEIO- 360-B, -H; HO-360-A, -B; HIO-360-B; VO, IVO-360
05K22949	05K22950	Four Cylinder Parallel Valve Head Engine– IO-360-M1A
LW-12039	05K22947	Four Cylinder Angle Valve Head Engines – IO-360-A, -C, -D, -J, -K; AIO-360-A, -B; AEIO-360-A; HIO-360-A, -C, -D, -E, -F; LIO-360-C; LHIO-360-C, -F; TO, LTO-360-A; TIO-360-A
LW-15838	05K22967	Four Cylinder Angle Valve Head Engines – TO, TIO-360-C1A6D, -F1A6D
LW-16916	05K22968	Four Cylinder “76” Series Engines – O-320-H; O, LO, TO, LTO-360-E
05K26565	05K26564	Four Cylinder Angle Valve Head Engines IO-390 Series
LW-12032	05K22940	Six Cylinder Parallel Valve Head Engines – O-540-A, -B, -E, -F, -G, -H, -J, -L, -V; AEIO-540-D; IO-540-C, -D, -J, -N, -R, -T, -W, -V, -AB; TIO-540-C, -E, -G, -H, -K, -AA, -AB, -AF, -AG; LTIO-540-K
LW-12033	05K22941	Six Cylinder Angle Valve Head Top Exhaust Engines – IO-540-B, -E, -M, -U; TIO-540-A, -S, -T; TIO, LTIO-540-F, -J, -N, -R; TIO-541-A; IGO, IGSO-540-B
LW-12034	05K22942	Six Cylinder Angle Valve Head Down Exhaust Engines – GO, VO, TVO-435; GO, GSO, IGSO-480; IO-540-A, -G, -K, -L, -P, -S, -AA; AEIO-540-L; TIO-540-W, -AE, -AH; TIO, LTIO-540-U, -V, -W; VO, IVO, TVO, TIVO-540; IGO, IGSO-540-A
05K31655	05K31587	Six Cylinder Angle Valve Head Down Exhaust Engines – TEO-540 Series
LW-12035	05K22943	Six Cylinder Angle Valve Head Engines – IO-540-AC1A5; TIO-540-AJ1A; TIO, TIGO-541-D, -E
LW-12036	05K22944	Six Cylinder Parallel Valve Head engine – O-435-A
LW-12037	05K22942	Eight Cylinder Angle Valve Head Down Exhaust Engines – IO-720-A, -D
LW-18758	05K22941	Eight Cylinder Angle Valve Head Top Exhaust Engines – IO-720-B, -C

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PISTON RING KITS FOR SINGLE CYLINDER

05K22034 Kit – Piston Ring (Does 1 Cylinder)

For Nitrided Cylinders Using the Following Pistons: 14B23917, 14B23918.

Contains:	<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
	78862	Ring – Piston Compression	2
	14H29885	Ring – Piston Oil Regulating	1

05K22035 Kit – Piston Ring (Does 1 Cylinder)

For Nitrided Cylinders Using the Following Pistons: 14D23912, 14D23915, 14D23908, LW-10208-S, 14D23907, 14D28056 14D23909, 14D23913, 14D23910, 14D23916, 14D23914.

Contains:	<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
	74241	Ring – Piston Compression	2
	14H29884	Ring – Piston Oil Regulating	1

05K22036 Kit – Piston Ring (Does 1 Cylinder)

For Plain Steel Cylinders Using the Following Pistons: 14D23912, 14D23915, 14D23913

Contains:	<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
	74989	Ring – Piston Compression	2
	14H29884	Ring – Piston Oil Regulating	1

05K22037 Kit – Piston Ring (Does 1 Cylinder)

For Nitrided Cylinders on the TIO-540-AE2A, -AF1B, -AH1A, -TEO-540 Series Engines Only.

Contains:	<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
	74241	Ring – Piston Compression	2
	14H29889	Ring – Piston Oil Regulating	1

05K26564 Kit – Piston Ring (Does 1 Cylinder)

For Nitrided Cylinders on the IO-390-A1A6, -A3A6; IO-580-B1A, AEIO-580-B1A,

Contains:	<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
	14G22050	Ring – Piston Compression	2
	14H29865	Ring – Piston Oil Regulating	1

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Table 1 uses alphabetical symbols to identify various components as follows:

- C* - Chrome plated steel cylinder barrel
- FW - Full-Wedge compression ring
- HW - Half-Wedge compression ring
- N - Nitride hardened steel cylinder barrel
- P - Plain steel cylinder barrel
- S - Suffix to piston P/N to indicate service application
- a - 3/16 inch “wide” oil regulating ring
- c - Chrome plated piston ring
- d - Cold forged piston
- e - Requires long reach spark plugs
- h - 7/16 inch diameter sodium cooled exhaust valve
- j - 1/2 inch diameter chrome plated sodium cooled stem exhaust valve
- k - Solid stem exhaust valve
- p - Plain steel ring
- r - Angle valve cylinder head (cylinders not marked “r” have parallel valves)

* - If choked chrome cylinder assemblies are used in any of the engine applications in Table 1, the compression ring gap must be increased to 0.045/0.055 inch (1.143 to 1.397 mm) which is the same for nitrided cylinder assemblies. Refer to the latest revision of SSP-1776, Table of Limits.

NOTICE: IN TABLE 1, CYLINDERS LISTED IN THE CYL. ASSY. NO. AND ALT. CYL. ASSY. NO. COLUMNS ARE INTERCHANGEABLE, AND CAN BE INSTALLED ON EACH APPLICABLE ENGINE OR INCLUDED IN CYLINDER KITS IN ANY COMBINATION.

NOTICE: Some cylinder assemblies will be stamped with only the 5-digit base part number and 2-digit assembly number, not the complete part number as listed in Table 1. For example: cylinder assembly part number 16A30080-01 will be stamped with “30080-01” on the cylinder. The “16A” will be excluded.

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
O-235-C1, -C1B, -C1C, -C2A, -C2B, -C2C, -E2A, -H2C (low compression) (Narrow Deck)	N	HW	14B28072	78862c	78862c		14H29885c	N/A	16A30060-02	N/A	17B23940h	17A23939	♣ 05K29652
	N	HW	14B28072	78862c	78862c		78864c	N/A	16A30060-02	N/A	17B23940h	17A23939	N/A
	P	FW	14B23919	68196c	68196c		LW-16867c	60072p	N/A	N/A	17B23940h	17A23939	***N/A
	C	FW		LW-14233p	LW-14233p		LW-18352p	60072p	N/A	N/A			N/A
O-235-F1B, -F2A, -F2B, -G1A, -G2A, -J2A (high compression) (Narrow Deck)	N	HW	14B23917	78862c	78862c		14H29885c		16A26616	16A30060-01	17B23940h	17A23939	05K23040
	N	HW	14B23917	78862c	78862c		78864c		16A26616	N/A	17B23940h	17A23939	N/A
	C	HW		N/A	N/A		LW-14235p		N/A	N/A			N/A
O-235-K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C (high compression) (Narrow Deck)	N	HW	14B23918	78862c	78862c		14H29885c		16A26616	16A30060-01	17B23940h	17A23939	05K23037
	N	HW	14B23918	78862c	78862c		78864c		16A26616	N/A	17B23940h	17A23939	N/A
	C			N/A	N/A		LW-14235p		N/A	N/A			N/A
O-235-N2A, -N2C, -P1, -P2A, -P2C, -P3C (high compression) (Narrow Deck)	N	HW	14B23918	78862c	78862c		14H29885c		16A26618	16A30061-01	17B23940h	17A23939	05K23038
	N	HW	14B23918	78862c	78862c		78864c		16A26616	N/A	17B23940h	17A23939	N/A
O-290-D (low compression) (Narrow Deck) Cylinder Assemblies No Longer Available	P	FW	N/A	62916c	62916c		69401		N/A	N/A	17B29899k	17A23939	N/A
	C	FW	N/A	LW-13883p	LW-13883p		75985pa		N/A	N/A	17B19712k	17A23939	N/A
O-290-D2 (high compression) (Narrow Deck) Cylinder Assemblies No Longer Available	P	FW	69841	62916c	62916c		69401		N/A	N/A	17B29899k	17A23938	N/A
	C	FW	69841	LW-13883p	LW-13883p		68338pa		N/A	N/A	17B19712k	17A23938	N/A
O-290-D2B, -D2C (low compression) (Narrow Deck) Cylinder Assemblies No Longer Available	P	FW	N/A	62916c	62916c		68338pa		N/A	N/A	17B29899k	17A23938	N/A
	C	FW	N/A	LW-13883p	LW-13883p		68338pa		N/A	N/A	17B19712k	17A23938	N/A
O-320-A, -E (low compression) (Wide Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12416	16A30080-02	17B23936j	17A23938	❖05K21237-A
	P	HW	14D23915	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	HW	14D23915	N/A	N/A		73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-320-A, -E (low compression) (Narrow Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		16B21508	16A30080-05	17B23936j	17A23938	❖05K21423-A
	P	HW	14D23915	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	HW	14D23915	N/A	N/A		73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-320-B, -D; IO-320-B1A, -B1C, -B1D, -B1E, -B2A, -D1A, -D1AD, -D1B, -D1C; LIO-320-B1A; AIO-320-A1B, -B1B, -C1B; AEIO-320-D1B, -D2B (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12416	16A30080-02	17B23936j	17A23938	05K21100
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12416	16A30080-02	17B23936j	17A23938	N/A
	C	HW					73998pb		N/A	N/A	17B23936j	17A23938	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
O-320-B, -D1A, -D2A, -D2B (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12413	16A30080-06	17B23936j	17A23938	05K21101
	P	HW	14D23912	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
O-320-E2A, -E2C; IO-320-E1A, -D1B, -E2A, -E2B; AEIO-320-E1A, -E1B, -E2A, -E2B (low compression) (Wide Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12416	16A30080-02	17B23936j	17A23938	❖05K21237-A
	N	HW	14D23915	74241c	74241c		14H21950cb		LW-12416	16A30080-02	17B23936j	17A23938	N/A
O-320-H2AD, -H3AD (76 Series)	N	HW	14D23914	74241c	74241c		14H29884cb		LW-15318	16A30120-01	17B23936j	17A23945	05K21119
	N	HW	14D23914	74241c	74241c		14H21950cb		LW-15318	16A30120-01	17B23936j	17A23945	N/A
	C	HW					73998pb		N/A	N/A			N/A
IO-320-B1A; LIO-320-B1A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12413	16A30080-06	17B23936j	17A23938	05K21101
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12413	16A30080-06	17B23936j	17A23938	N/A
IO-320-C1A, -C1B, -C1F; LIO-320-C1A (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12418e	16A30100-04	17B23936j	17A23938	05K21242
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12418e	16A30100-04	17B23936j	17A23938	N/A
O-340-A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		N/A	N/A	17B23936j	17A23938	N/A
	P	HW	14D23912	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	FW	14D23912						N/A	N/A	17B23936j	17A23938	N/A
O-360-A, -C (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21102
	P	HW	14D23912	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	HW	14D23912				73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-360-A, -C, -F1A6, -G1A6; IO-360-B, -L2A, -M1A, -M1B; HO-360-C1A; HIO-360-B1A; LO-360-A1G6D, -A1H6; AEIO-360-B, -H1A, -H1B (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21104
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A
	C	HW	14D23912				73998pb		N/A	N/A	17B23936j	17A23938	N/A
IO-360-P1A LIO-360-B1G6 (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21104
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A
O-360-B, -D (low compression) (Narrow Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21103
	P	HW	14D23915	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	HW	14D23915				73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-360-B2C (low compression) (Wide Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21192
	N	HW	14D23915	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
O-360-C4P (high compression) (Long Reach) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		16A22130e	16A30100-01	17B23936j	17A23938	05K22926
	N	HW	14D23912	74241c	74241c		14H21950cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
O-360-E1A6D (76 Series) LO-360-E1A6D (76 Series)	N	HW	14D23914	74241c	74241c		14H29884cb		LW-15322	16A30120-02	17B23936j	17A23945	05K21121
	N	HW	14D23914	74241c	74241c		14H21950cb		LW-15322	16A30120-02	17B23936j	17A23945	N/A
O-360-J2A (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-13870	16A30080-03	17B23936j	17A23938 ♣ 17A29467	05K21745
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-13870	16A30080-03	17B23936j	17A23938 ♣ 17A29467	N/A
HO-360-A1A, -B1A, -B1B HIO-360-B1A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21102
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12425	16A30080-04	17B23936j	17A23938	N/A
	C	HW	14D23912				73998pb		N/A	N/A	17B23936j	17A23938	N/A
HIO-360-A1A (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-19046	16A30160-04	17B23935j	17A23943	05K21224
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-19046	16A30160-04	17B23935j	17A23943	N/A
HIO-360-A1A, -A1B, -C1A, -C1B ; LHIO-360-C1A (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-19047	16A30160-02	17B23935j	17A23943	05K21281
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-19047	16A30160-02	17B23935j	17A23943	N/A
	C	HW	14D23908d				73998pb		N/A	N/A	LW-16740j	LW-12949	N/A
HIO-360-D1A (high compression) (Wide Deck)	N	HW	14D23909d	74241c	74241c		14H29884cb		LW-19047r	16A30160-02	17B23935j	17A23946	05K21124
	N	HW	14D23909d	74241c	74241c		14H21950cb		LW-19047r	16A30160-02	17B23935j	17A23946	N/A
HIO-360-E1AD, -E1BD, -F1AD (high compression) (Wide Deck)	N	HW	14D23910	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21274
	N	HW	LW-14610Sd	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
IO-360-A1A (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13530r	16A30160-03	17B23935j	17A23937	05K21112
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13530r	16A30160-03	17B23935j	17A23937	N/A
IO-360-A, -A3B6, -A3B6D, -C, -D1A, -J1A6D, -K2A; AIO-360-A1A, -A1B, -B1B; AEIO-360-A1A, -A1B, -A1B6, -A1D, -A1E, -A1E6, -A2B; LIO-360-C1E, -C1E6, -C1E6D (short reach spark plugs) (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-12993r	16A30160-01	17B23935j	17A23937	05K21120
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-12993r	16A30160-01	17B23935j	17A23937	N/A
	C	HW	N/A	N/A	N/A	N/A	N/A		N/A	N/A	17B23935j	LW-13622	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	LW-13622	N/A
IO-360-A3B6D (long reach spark plugs) (for turbocharging) (Wide Deck)	N	HW	14D23908	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21118
	N	HW	14D23908	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
IO-360-C1F (short reach spark plugs) (non-turbocharging) (Wide Deck)	N	HW	14D23908	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21118
	N	HW	14D23908	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
IO-360-C1F (long reach spark plugs) (for turbocharging) (Wide Deck)	N	HW	14D23908	74241c	74241c		14H29884cb		77544er	16A30161-05	17B23935j	17A23943	05K21278
	N	HW	14D23908	74241c	74241c		14H21950cb		77544er	16A30161-05	17B23935j	17A23943	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
IO-360-B1A, -B1B (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21102
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12425	16A30080-04	17B23936j	17A23938	N/A
IO-360-F1A (high compression) (Wide Deck) (Long Reach)	N	HW	14D23912	74241c	74241c		14H29884cb		16A22130e	16A30100-01	17B23936j	17A23938	05K22926
	N	HW	14D23912	74241c	74241c		14H21950cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
IVO-360-A1A (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-15682e	16A30102-01	17B23936j	17A23938	05K22294
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-15682e	16A30102-01	17B23936j	17A23938	N/A
IVO-360-A1A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12432	N/A	N/A	17A23938	N/A
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12432	N/A	N/A	17A23938	N/A
TO-360-C1A6D, -F1A6D; TIO-360-C1A6D (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		LW-13964r	16A30260-01	17B23944j	17A23942	05K21276
	N	HW	14D23907d	74241c	74241c		14H21950cb		LW-13964r	16A30260-01	17B23944j	17A23942	N/A
TO-360-E1A6D; LTO-360-E1A6D (76 Series)	N	HW	14D23913	74241c	74241c		14H29884cb		LW-16290e	16A30140-01	17B23936j	17A23945	05K21122
	N	HW	14D23913	74241c	74241c		14H21950cb		LW-16290e	16A30140-01	17B23936j	17A23945	N/A
TIO-360-A1B, -A3B6 (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		77544er	16A30161-05	17B23935	17A23943	N/A
	N	HW	14D23907d	74241c	74241c		14H21950cb		77544er	16A30161-05	17B23935	17A23943	N/A
VO-360-A1A, -A1B, -B1A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		N/A	N/A	N/A	N/A	N/A
	N	HW	14D23912	74241c	74241c		14H21950cb		N/A	N/A	N/A	N/A	N/A
	C	HW	14D23912	N/A	N/A		73998pb		N/A	N/A	N/A	17A23938	N/A
IO-390-A1A6, -A3A6, -A1B6, -A3B6, -C1A6, -C3A6, -C1B6, -C3B6, -D1A6, -D1B6, -D3A6, -D3B6; AEIO-390-A1A6, -A3A6, -A1B6, -A3B6 (Wide Deck)	N	HW	14E23911	14G22050c	14G22050c		14H29865cb		16A26081	16A30180-02	17B23935j	17A23946	05K26625
	N	HW	14E23911	14G22050c	14G22050c		14H23148cb		16A26081	16A30180-02	17B23935j	17A23946	N/A
HIO-390-A1A (Wide Deck)	N	HW	14E23911	14G22050c	14G22050c		14H29865cb		16A26081	16A30180-02	17B23935j	17A23946	05K26625
	N	HW	14E23911	14G22050c	14G22050c		14H23148cb		16A26081	16A30180-02	17B23935j	17A23946	N/A
O-435-A (low compression) (Narrow Deck)	P	FW	N/A	62916c	62916c		69401ca		N/A	N/A	17A23947	17A23939	N/A
GO-435-C2 (high compression) (Narrow Deck)	N	HW	14C31646-S	73933c	73933c		14H29887cb		LW-19035r	16A30165-01	17B23935j	17A23947	05K21229
	N	HW	75984-S	73933c	73933c		73934cb		LW-19035r	16A30165-01	17B23935j	17A23947	N/A
	C	HW	75984-S	74984p	74984p		75985pb		N/A	N/A	17B23935j	17A23947	N/A
	P	FW	N/A	62916c	62916c		69401ca	69322c	16A30165-03r	16A30165-03	17B23935j	17A23947	N/A
VO-435-A1B, -A1C, -A1D, -A1E, -A1F TVO-435-A1A (low compression) (Narrow Deck)	N	HW	14C31646-S	73933c	73933c		14H29887cb		LW-19036r	16A30165-02	17B23935j	17A23947	05K21214
	N	HW	75984-S	73933c	73933c		73934cb		LW-19036r	16A30165-02	17B23935j	17A23947	N/A
	N	HW	14C31646-S	73933c	73933c		14H29887cb		LW-19036r	16A30165-02	17B23935j	17A23947	●05K21215-A
	N	HW	75984-S	73933c	73933c		73934cb		LW-19036r	16A30165-02	17B23935j	17A23947	N/A
	C	HW	75984-S	74984p	74984p		75985pb		N/A	N/A	17B23935j	17A23947	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
VO-435-A1D, -A1E, -A1F; TVO-435-A1A, -B1A, -B1B, -D1A, -D1B, -F1A, -G1A, -G1B (low compression) (Narrow Deck)	N	HW	14C31646-S	73933c	73933c		14H29887cb		74218er	16A30162-01	17B23935j	17A23947	05K21212
	N	HW	75984-S	73933c	73933c		73934cb		74218er	16A30162-01	17B23935j	17A23947	N/A
	N	HW	14C31646-S	73933c	73933c		14H29887cb		74218er	16A30162-01	17B23935j	17A23947	●05K21213-A
	N	HW	75984-S	73933c	73933c		73934cb		74218er	16A30162-01	17B23935j	17A23947	N/A
	C	HW	75984-S	74984p	74984p		75985pb		N/A	N/A	17B23935j	17A23947	N/A
VO-435-B1A (high compression) (Narrow Deck)	N	HW	**14C28324	73933c	73933c		73934cb		74218er	16A30162-01	17B23935j	17A23947	N/A
GO-480-B, -D, -F (low compression) (Narrow Deck)	N	HW	LW-10208Sd	74241c	74241c	N/A	14H29884cb	N/A	LW-19307	16A3-164-01	17B23935j	17A23947	05k21273
	N	HW	LW-10208Sd	74241c	74241c	N/A	14H21950cb	N/A	LW-19307	16A3-164-01	17B23935j	17A23947	N/A
	P	FW	N/A	74989c	74989c	N/A	N/A	N/A	16A21005r	N/A	17B23935j	17A23947	N/A
	C	HW	LW-10208Sd	N/A	N/A	N/A	73998pb	N/A	N/A	N/A	17B23935j	17A23947	N/A
	C	HW	N/A	N/A	N/A	N/A	73998pb	69235p	N/A	N/A	17B23935j	17A23947	N/A
GO-480-C1B6, -C1D6, -C2 Series, -G1A6, -G1B6, -G1D6, -G2D6, -G1E6, -G1F6, -G2F6, -G1G6, -G1J6 (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		75215er	16A30163-01	17B23935j	17A23947	05K21272
	N	HW	14D23908d	74241c	74241c		14H21950cb		75215er	16A30163-01	17B23935j	17A23947	N/A
	C	HW	14D23908d	N/A	N/A	N/A	73998pb		N/A	N/A	17B23935j	17A23947	N/A
	C	HW	73947Sd	N/A	N/A		73998pb	69235p	N/A	N/A	17B23935j	17A23947	N/A
GO-480-G1A6 (Helio) IGO-480-A1B6 (Helio); (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-19038er	16A30167-01	17B23935j	17A23947	N/A
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-19038er	16A30167-01	17B23935j	17A23947	N/A
GO-480-G1D6 (Helio) (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		75215er	16A30163-01	17B23935j	17A23947	◆05K21272
	N	HW	14D23908d	74241c	74241c		14H21950cb		75215er	16A30163-01	17B23935j	17A23947	N/A
GSO-480-A, -B; IGSO-480-A (low compression) (Narrow Deck)	N	HW	LW-10208-Sd	74241c	74241c		14H29884cb		75215er	16A30163-01	17B23935j	17A23947	05K21270
	N	HW	LW-10208-Sd	74241c	74241c		14H21950cb		75215er	16A30163-01	17B23935j	17A23947	N/A
	C	FW	71545	N/A	N/A		N/A	69235p	N/A	N/A	17B23935j	17A23947	N/A
O-540-A, -F (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21102
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12425	16A30080-04	17B23936j	17A23938	N/A
	P	HW	14D23912	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	FW	14D23912	N/A	N/A		72454pb		N/A	N/A	17B23936j	17A23938	N/A
O-540-A; IO-540-C (high compression) (Narrow Deck)	C	HW	14D23912	N/A	N/A		73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-540-A4D5, A4E5, -E, -G, -H; IO-540-A4D5, -C, -D, -N, -T, -V; AEIO-540-D4A5, -D4B5, -D4D5 (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21104
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
O-540-B (low compression) (Wide Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21192
	N	HW	14D23915	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A
	N	HW	75413	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A
	P	HW	75413	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
O-540-B (high compression) (Narrow Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21103
	N	HW	14D23915	74241c	74241c		14H21950cb		LW-12425	16A30080-04	17B23936j	17A23938	N/A
	P	HW	14D23915	74989c	74989c		14H21950cb		N/A	N/A	17B23936j	17A23938	N/A
	C	HW	14D23915	N/A	N/A		73998pb		N/A	N/A	17B23936j	17A23938	N/A
O-540-E1A, -E4B5, -E4C5, -G1A5, -G2A5; IO-540-C, -D4A5, -D4B5, -N1A5 (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12425	16A30080-04	17B23936j	17A23938	05K21102
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12425	16A30080-04	17B23936j	17A23938	N/A
O-540-E4A5 (high compression) (Long Reach) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		16A22130e	16A30100-01	17B23936j	17A23938	05K22926
	N	HW	14D23912	74241c	74241c		14H21950cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
O-540-F1B5 (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-13870	16A30080-03	17B23936j	17A23938 ♠ 17A29467	05K21745
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-13870	16A30080-03	17B23936j	17A23938 ♠ 17A29467	N/A
O-540-J1A5D, -J1C5D, -J2A5D, -J3A5, -J3A5D, -J3C5D; IO-540-AB1A5, -W1A5, -W1A5D, -W3A5D (high compression) (Wide Deck)	N	HW	14D23916	74241c	74241c		14H29884cb		LW-13870	16A30080-03	17B23936j	17A23938	05K21117
	N	HW	14D23916	74241c	74241c		14H21950cb		LW-13870	16A30080-03	17B23936j	17A23938	N/A
O-540-L3C5D (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-15605e	16A30100-02	17B23936j	17A23938	05K21231
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-15605e	16A30100-02	17B23936j	17A23938	N/A
IO-540-A, -G, -K, -L; HIO-540-A1A (high compression) (Narrow Deck)	N	HW	14D23908d	72421c	74241c		14H29884cb		LW-13530r	16A30160-03	17B23935j	17A23937	05K21112
	N	HW	14D23908d	72421c	74241c		14H21950cb		LW-13530r	16A30160-03	17B23935j	17A23937	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
IO-540-AA1A5, -AA1B5; TIO-540-U2A; LTIO-540-U2A (low compression) (Wide Deck)	N	HW	14D23907	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21966
	N	HW	14D23907	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
IO-540-AC1A5 (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		16A22541e	16A30240-01	17B23944j	17A26621	05K22672
	N	HW	14D23908d	74241c	74241c		14H21950cb		16A22541e	16A30240-01	17B23944j	17A26621	N/A
	N	HW	14D23908d	74241c	74241c		14H21950cb		16A22541c	16A30240-01	17B23944j	17A23942	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
IO-540-AF1A5 (high compression) (Wide Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12427	16A30080-01	17B23936j	17A23938	05K21104
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12427	16A30080-01	17B23936j	17A23938	N/A
IO-540-AG1A5 (low compression) (Narrow Deck)	N	HW	14D23907	74241c	74241c		14H29889cb		LW-19048	16A30221-02	17B23935j	17A23937	05K28094
	N	HW	14D23907	74241c	74241c		14H21990cb		LW-19048	16A30221-02	17B23935j	17A23937	N/A
IO-540-B, -E (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13532r	16A30222-01	17B23935j	17A23937	05K21110
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13532r	16A30222-01	17B23935j	17A23937	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
IO-540-E1B5, -M1A5; (for turbocharging) (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13533er	16A30221-01	17B23935j	17A23937	05K21226
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13533er	16A30221-01	17B23935j	17A23937	N/A
IO-540-G, -K, -P, -S (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13534er	16A30161-02	17B23935j	17A23937	05K21204
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13534er	16A30161-02	17B23935j	17A23937	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
IO-540-G1D5, -K1B5, -K1C5, -K1E5, -K1E5D, -S1A5; AEIO-540-L1B5, -L1B5D, -L1D5 (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21118
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
IO-540-J4A5, -R1A5; TIO-540-G1A (high compression) (Narrow Deck)	N	HW	14D23912	74241c	74241c		14H29884cb		LW-12433e	16A30100-03	17B23936j	17A23938	05K21241
	N	HW	14D23912	74241c	74241c		14H21950cb		LW-12433e	16A30100-03	17B23936j	17A23938	N/A
IO-540-J4A5, -R1A5 (high compression) (Wide Deck) (Long Reach)	N	HW	14D23912	74241c	74241c		14H29884cb		16A22130e	16A30100-01	17B23936j	17A23938	05K22926
	N	HW	14D23912	74241c	74241c		14H21950cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
IO-540-K1A5, -K1A5D, -K1B5, -K1D5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1H5, -K1J5, -K1J5D, -K1K5, -K2A5, -L1A5D, -L1B5D, -L1C5, -AE1A5; AEIO-540-L1B5, -L1B5D, -L1D5 (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-12993r	16A30160-01	17B23935j	17A23937	05K21120
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-12993r	16A30160-01	17B23935j	17A23937	N/A
IO-540-M1A5, -M1A5D, -M1B5, -M1B5D, -M1C5, -U1A5D, -U1B5D (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-19048er	16A30221-02	17B23935j	17A23937	05K21263
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-19048er	16A30221-02	17B23935j	17A23937	N/A
IGO-540-B1A, -B1C (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		76187er	16A30221-03	17B23935j	17A23943	N/A
	N	HW	14D23908d	74241c	74241c		14H21950cb		76187er	16A30221-03	17B23935j	17A23943	N/A
	N	HW	N/A	74241c	74241c		14H21950cb		76187er	16A30221-03	17B23935j	17A23943	N/A
	C	HW	14D23908d	N/A	N/A	N/A	73998pb	69235p	N/A	N/A	17B23935j	17A23943	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23943	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
IGO-540-A1A, -A1C (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		76261er	16A30161-04	17B23935j	17A23943	N/A
	N	HW	14D23908d	74241c	74241c		14H21950cb		76261er	16A30161-04	17B23935j	17A23943	N/A
	N	HW	N/A	74241c	74241c		14H21950cb		76261er	16A30161-04	17B23935j	17A23943	N/A
	C	HW	14D23908d	N/A	N/A	N/A	73998pb	69235p	N/A	N/A	17B23935j	17A23943	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23943	N/A
IVO-540-A1A (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		74236er	16A30161-03	17B23935j	17A23943	05K21220
	N	HW	14D23908d	74241c	74241c		14H21950cb		74236er	16A30161-03	17B23935j	17A23943	N/A
IGSO-540-A1A, -A1C, -A1D, -A1E, -A1H (low compression) (Narrow Deck)	N	HW	LW-10208-Sd	74241c	74241c		14H29884cb		LW-12714er	16A30163-02	17B23935j	17A23937	05K21264
	N	HW	LW-10208-Sd	74241c	74241c		14H21950cb		LW-12714er	16A30163-02	17B23935j	17A23937	N/A
	C	HW	LW-10208-Sd	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
	C	HW	LW-10208-Sd	N/A	N/A	N/A	73998pb	69235p	N/A	N/A	17B23935j	17A23937	N/A
IGSO-540-B1A, -B1C (low compression) (Narrow Deck)	N	HW	LW-10208-Sd	74241c	74241c		14H29884cb		LW-13447er	16A30220-02	17B23935j	17A23937	05K21269
	N	HW	LW-10208-Sd	74241c	74241c		14H21950cb		LW-13447er	16A30220-02	17B23935j	17A23937	N/A
	C	HW	LW-10208-Sd	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
	C	HW	LW-10208-Sd	N/A	N/A	N/A	73998pb	69235p	N/A	N/A	17B23935j	17A23937	N/A
TEO-540-A1A, -C1A (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29889		16A26347	16A30200-01	17B23935j	17A23937	05K26774
	N	HW	14D23907d	74241c	74241c		14H21990		16A26347	16A30200-01	17B23935j	17A23937	N/A
TIO-540-A1A, -A1B, -A2A, -A2B, -A2C (low compression) (Narrow Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		LW-13447er	16A30220-02	17B23935j	17A23937	05K21109
	N	HW	14D23907d	74241c	74241c		14H21950cb		LW-13447er	16A30220-02	17B23935j	17A23937	N/A
	C	HW	14D23907d	N/A	N/A		73998pb		N/A	N/A	LW-16710j	17A23937	N/A
TIO-540-A1A (low compression) (Narrow Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		N/A	N/A	17B23935j	17A23946	N/A
	N	HW	14D23907d	74241c	74241c		14H21950cb		N/A	N/A	17B23935j	17A23946	N/A
TIO-540-A2B, -A2C, -F2BD, -J2B, -J2BD, -N2BD, -R2AD, -S1AD LTIO-540-F2BD, -J2B, -J2BD, -N2BD, -R2AD (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H21950cb		LW-12966er	16A30220-01	17B23935j	17A23937	05K21108
	N	HW	14D23907d	74241c	74241c		14H21950cb		LW-12966er	16A30220-01	17B23935j	17A23937	N/A
	N	HW	14D23907d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
	C	HW	14D23907d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23937	N/A
TIO-540-AE2A, -AH1A (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29889cb		LW-12988er	16A30161-01	17B23935j	17A23937	05K21262
	N	HW	14D23907d	74241c	74241c		14H21990cb		LW-12988er	16A30161-01	17B23935j	17A23937	N/A
TIO-540-AF1B (Oil Cooled Valve Guides) (low compression) (Wide Deck)	N	HW	14D23913	74241c	74241c		14H29889cb		16A22023er	16A30101-01	17B23936j	17A23938	05K22177
	N	HW	14D23913	74241c	74241c		14H21990cb		16A22023er	16A30101-01	17B23936j	17A23938	N/A
TIO-540-AJ1A (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		16A22541e	16A30240-01	17B23944j	17A26621	05K22680
	N	HW	14D23907d	74241c	74241c		14H21950cb		16A22541e	16A30240-01	17B23944j	17A26621	N/A

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ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
TIO-540-AK1A (low compression) (Wide Deck)	N	HW	14D23913	74241c	74241c		14H29889cb		16A22130e	16A30100-01	17B23936j	17A23938	05K23161
	N	HW	14D23913	74241c	74241c		14H21990cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
TIO-540-C1A, -C1AD (low compression) (Wide Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		16A22130e	16A30100-01	17B23936j	17A23938	05K22128
	N	HW	14D23915	74241c	74241c		14H21950cb		16A22130e	16A30100-01	17B23936j	17A23938	N/A
TIO-540-C1A, -E1A, -H1A (low compression) (Narrow Deck)	N	HW	14D23915	74241c	74241c		14H29884cb		LW-12433e	16A30100-03	17B23936j	17A23938	05K21234
	N	HW	14D23915	74241c	74241c		14H21950cb		LW-12433e	16A30100-03	17B23936j	17A23938	N/A
TIO-540-C1A, -E1A, -H1A (low compression) (Narrow Deck)	N	HW	14D23913	74241c	74241c		14H29884cb		16A22130er	16A30100-01	17B23936j	17A23938	05K22129
	N	HW	14D23913	74241c	74241c		14H21950cb		16A22130er	16A30100-01	17B23936j	17A23938	N/A
TIO-540-V2AD; LTIO-540-V2AD (low compression) (Wide Deck)	N	HW	14D23907d	74241c	74241c		14H29884cb		16A19516er	16A30241-01	17B23944j	17A26621	05K21260
	N	HW	14D23907d	74241c	74241c		14H21950cb		16A19516er	16A30241-01	17B23944j	17A26621	N/A
TIO-540-W2A (low compression) (Wide Deck)	N	HW	14D21953-Sd	74241c	74241c		14H29884cb		16A19516er	16A30241-01	17B23944j	17A26621	05K21261
	N	HW	14D21953-Sd	74241c	74241c		14H21950cb		16A19516er	16A30241-01	17B23944j	17A26621	N/A
TIVO-540-A2A, -A2B (low compression) (Narrow Deck)	N	HW	LW-10208Sd	74241c	74241c		14H29884cb		74236er	16A30161-03	17B23935j	17A23943	05K21219
	N	HW	LW-10208Sd	74241c	74241c		14H21950cb		74236er	16A30161-03	17B23935j	17A23943	N/A
	N	HW	N/A	74241c	74241c	74241c	14H21950cb	N/A	74236er	16A30161-03	17B23935j	17A23943	N/A
VO-540-A, -B; TVO-540-A1A (low compression) (Narrow Deck)	N	HW	LW-10208Sd	74241c	74241c		14H29884cb		75137er	16A30166-01	17B23935j	17A23943	05K21228
	N	HW	LW-10208Sd	74241c	74241c		14H21950cb		75137er	16A30166-01	17B23935j	17A23943	N/A
	N	HW	N/A	74241c	74241c	74241c	14H21950cb	N/A	75137er	16A30166-01	17B23935j	17A23943	N/A
	C	HW	LW-10208Sd	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23943	N/A
VO-540-C (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		75137er	16A30166-01	17B23935j	17A23943	05K21223
	N	HW	14D23908d	74241c	74241c		14H21950cb		75137er	16A30166-01	17B23935j	17A23943	N/A
	C	HW	14D23908d	N/A	N/A		73998pb		N/A	N/A	17B23935j	17A23943	N/A
TIO-541-A1A (low compression) (Narrow Deck)	N	HW	14D28056d	74241c	74241c		14H29884cb		N/A	N/A	17B23935	17A23946	N/A
	N	HW	14D28056d	74241c	74241c		14H21950cb		N/A	N/A	17B23935	17A23946	N/A
TIO-541-E1A4, -E1B4, -E1C4, -E1D4; TIGO-541-E1A (low compression) (Narrow Deck)	N	HW	14D28056d	74241c	74241c		14H29884cb		LW-14116er	16A30280-01	17B23941j	17A23942	05K21116
	N	HW	14D28056d	74241c	74241c		14H21950cb		LW-14116er	16A30280-01	17B23941j	17A23942	N/A
TIGO-541-D1B (low compression) (Narrow Deck)	N	HW	14D28056d	74241c	74241c		14H29884cb		LW-13121er	16A30261-01	LW-18498j	17A23942	N/A
	N	HW	14D28056d	74241c	74241c		14H21950cb		LW-13121er	16A30261-01	LW-18498j	17A23942	N/A
IO-580-A1A, -B1A; AEIO-580-B1A (high compression) (Wide Deck)	N	HW	14E23911	14G22050c	14G22050c		14H29865cb		16A22887er	16A30180-01	17B23935j	17A23937	05K23259
	N	HW	14E23911	14G22050c	14G22050c		14H23148cb		16A22887er	16A30180-01	17B23935j	17A23937	N/A
IO-720-A1A, -D1B (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13530r	16A30160-03	17B23935j	17A23937	05K21112
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13530r	16A30160-03	17B23935j	17A23937	N/A

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Table 1 - Part Numbers for Pistons, Rings, Cylinders and Valve Combinations (Continued)

ENGINE MODEL	CYL. BARREL TYPE	PISTON RING TYPE	PISTON	TOP COMP. RING	2 nd COMP. RING	3 rd COMP. RING	OIL REG. RING	OIL SCRAPER RING	CYL. ASSY. NO.	ALT. CYL. ASSY. NO.	EXHAUST VALVE	INTAKE VALVE	CYL. PISTON AND RING ASSY. KIT
IO-720-A1B (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13530r	16A30160-03	17B23935j	17A23937	05K21112
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13530r	16A30160-03	17B23935j	17A23937	N/A
	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13534er	16A30161-02	17B23935j	17A23937	05K21204
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13534er	16A30161-02	17B23935j	17A23937	N/A
IO-720-A1B, -D1B, -D1C, -D1CD (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-12988er	16A30161-01	17A23935j	17A23937	05K21118
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-12988er	16A30161-01	17A23935j	17A23937	N/A
IO-720-B1B, -C1B (high compression) (Narrow Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13532r	16A30222-01	17B23935j	17A23937	05K21110
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13532r	16A30222-01	17B23935j	17A23937	N/A
	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-13533er	16A30221-01	17B23935j	17A23937	05K21226
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-13533er	16A30221-01	17B23935j	17A23937	N/A
IO-720-B1B, -B1BD (high compression) (Wide Deck)	N	HW	14D23908d	74241c	74241c		14H29884cb		LW-19048er	16A30221-02	17B23935j	17A23937	05K21263
	N	HW	14D23908d	74241c	74241c		14H21950cb		LW-19048er	16A30221-02	17B23935j	17A23937	N/A

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NOTES

1. ❖ - O-320, IO-320 (low compression) – Kits having a suffix “A” employ heavy piston pin P/N LW-13445. Plugs unchanged. Interchangeable in complete engines sets only.
2. ● - VO, TVO-435 – Kits with P/N having a suffix “A” employ heavy piston pin P/N LW-13445 (1) and plugs P/N 77856 (2). Interchangeable in complete engine sets only.
3. ♦ - 05K21272 Kit is for use with P/N 71265 and P/N 71266 high lift rocker assemblies to be used with P/N 77134 camshaft assembly. New engines serial number L-425-37 and up. Rebuilt engines – Built after 12-14-66.
4. ** - Piston P/N 76172 is replaced by piston P/N 14C28324 and is available for purchase at Scotts Bell - phone: 1 + (507) 665-4064, Fax 1 + (507) 665-0038
5. *** - For O-235-C, -E & -H Series – Effective February 2021 Cylinder Kit P/N 05K23039 (4-ring piston) has been obsoleted and superseded by P/N 05K29652 (3-ring piston).
6. ♣ - Do not intermix 3-ring pistons and 4-ring pistons on the same engine because of the piston weight difference.
7. ♠ - For engines O-360-J2A and O-540-F1B5 reference the current revision of SI 1280 for rotator type intake valve and corresponding parts. P/N 05K21745 Cylinder Kits shipped after August 2021 will incorporate rotator type intake valve P/N 17A29467. Cylinder kits with rotator and non-rotator type intake valves may be used together in any combination on the same engine.

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