



U.S. Department
of Transportation
**Federal Aviation
Administration**

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349220-4	633091, 643729, 646980, 10-349220-2, 10-349220-4, BL-349220-4, S6LN-1201	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349220-5	643730, 646981, 10-349220-5, BL-349220-5, S6RN-1201	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-



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					E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, IO-550-A, IO-550-B, IO-550-C, IO-550-D, IO-550-E, IO-550-F, IO-550-L
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349260-3	646959, 10-349260-3, BL-349260-3, S6RN-1205	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	IO-520-K
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349260-6	632959, 643808, 646983, 10-349260-1, 10-349260-6, BL-349260-6, S6RN-1205	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-



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					U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, IO-550-A, IO-550-B, IO-550-C, IO-550-D, IO-550-E, IO-550-F, IO-550-L
Magneto Assembly,	ES-349260-7	633090, 643807, 646982, 10-349260-2, 10-	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6	Continental Aerospace	GTSIO-520-D, GTSIO-520-E, GTSIO-520-F,



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S-1200 Series, 6 Cyl		349260-7, BL-349260-7, S6LN-1201	<u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Technologies Inc	GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE
S-1200 Series Magneto, 4-Cyl	ES-349285-1	LW-349285-1, LW-349285-1D, 75453, 10-349285-1, BL-349285-1, S4LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	AIO-320-A1A, AIO-320-A2A, IO-320-B1D, AIO-360-A2A, HIO-360-C1B, TIO-360-A1A
S-1200 Series Magneto, 4-Cyl	ES-349285-7	LW-349235-3, LW-349235-3D, LW-349235-4, LW-349235-4D, LW-349235-5, LW-349235-6, LW-349285-5, LW-349285-7D, LW-349285-7, 10-349285-7, BL-349285-7, S4LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	AIO-360-A1A, AEIO-360-A2C, HIO-360-C1B, HIO-360-D1A, IO-360-A1C, IO-360-A2C, IO-360-C1B, TIO-360-A1B
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-1	LW-349290-1, LW-349290-1D, 75454, 10-349290-1, BL-349290-1, S6LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1B5, HIO-540-A1A, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-



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					G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, TIO- 540-A1A, TIO-540- A1B, TIO-540- A1C, TIO-540-



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					A2A, TIO-540-A2B, TIO-540-A2C, TIO-540-C1A, TIO-540-E1A, TIO-540-G1A, TIO-540-H1A, TIO-540-J2B, TIO-540-W2A, AEIO-580-B1A, IO-580-B1A
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-1	10-349290-1, BL-349290-1, S6LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-2	LW-349290-2, LW-349290-2D, LW-349290-12, 75455, 10-349290-2, BL-349290-2, S6LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-



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					541-E1C4, TIO-541-E1D4
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-3	LW-349290-3, LW-349290-3D, 75456, 10-349290-3, BL-349290-3, S6RN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, VO-540-B1H3, VO-540-B2G
Magneto Assembly, S-1200, Series, 6 Cyl	ES-349290-4	LW-349290-4, LW-349290-4D, 75898, 10-349290-4, BL-349290-4, S6RN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TVO-435-B1B, TVO-435-D1A, TVO-435-G1A, VO-540-C2C
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-9	LW-349290-9, LW-349290-9D, LW-11589, 10-349290-9, BL-349290-9, S6LN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TVO-435-F1A, VO-435-B1A
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349290-17	LW-349290-17, 10-349290-17, BL-349290-17, S6RN-1208	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	LTIO-540-J2A



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S-1200 Series Magnetos, 4-Cyl	ES-349305-1	LW-349305-1, LW-349305-1D, 75896, 10- 349305-1, BL- 349305-1, S4LN- 1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235- E2B, O-235-F2B, O-235-G2B, O-235- J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO- 320-B1D, IO-320- B1E, IO-320-D1A, IO-320-D1B, IO- 320-D1C, O-320- D1C, O-320-D1F, O-320-D2C, O-320- D2F, O-320-E1C, O-320-E1F, O-320- E1J, O-320-E2C, O- 320-E2F, AEIO- 360-A1B, AEIO- 360-A1B6, AEIO- 360-A2B, AEIO- 360-A2C, AEIO- 360-B1F, AEIO- 360-B2F, AIO-360- A1A, AIO-360- A1B, AIO-360- A2A, AIO-360- A2B, AIO-360- B1B, HIO-360- C1B, IO-360-A1B, IO-360-A1B6, IO- 360-A1C, IO-360- A1D6, IO-360-



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					A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F, TIO-360-A1A, TIO-360-A1B
S-1200 Series Magneto, 4-Cyl	ES-349305-3	LW-349305-3, LW-349305-3D, LW11651Y, 10-349305-3, BL-349305-3, S4RN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	LIO-360-C1E6
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-1	LW-349310-1, LW-349310-1D, 75453, 10-349310-1, BL-349310-1, S6LN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1B5, HIO-540-A1A, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-



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					G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, TIO- 540-A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540-



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					A2C, TIO-540-C1A, TIO-540-E1A, TIO-540-G1A, TIO-540-H1A, TIO-540-J2B, TIO-540-W2A, AEIO-580-B1A, IO-580-B1A
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-1	10-349310-1, BL-349310-1, S6LN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed



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Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-4	LW-349310-4, LW-349310-4D, LW-349310-12, 75554, 10-349310-4, BL-349310-4, S6RN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-8	LW-349310-8, LW-349310-8D, 10-349310-8, BL-349310-8, S6LN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	AEIO-540-D4B5, IO-540-G1D5, IO-540-K1B5, IO-540-S1A5, O-540-E4C5, TIO-540-E1A, TIO-540-H1A
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-10	LW-349310-10, 10-349310-10, BL-349310-10, S6LN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	TVO-435-B1B, TVO-435-D1A, TVO-435-G1A, GSO-480-B1J6, VO-540-B1H3, VO-540-B2G, VO-540-C2C
Magneto Assembly,	ES-349310-11	LW-349310-11, LW-349310-11D,	Test and Computations per 14 CFR 21.303	Lycoming Engines	TVO-435-F1A, VO-435-B1A



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
S-1200 Series, 6 Cyl		10-349310-11, BL-349310-11, S6RN-1209	<u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions		
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349310-14	LW-349310-14, 10-349310-14, BL-349310-14, S6RN-1209	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	LTIO-540-J2B
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349350-4	640030, 643809, 646958, 653291, 10-349350-4, BL-349350-4, S6RN-1225	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, o-470-L, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE,



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					TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, IO-550-A, IO-550-B, IO-550-C, IO-550-D, IO-550-E, IO-550-F, IO-550-L, TSIOL-550-A, TSIOL-550-B, TSIOL-550-C
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349350-5	640030, 643810, 646957, 653290, 10-349350-5, BL-349350-5, S6RN-1225	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, o-470-L, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B,



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					IO-520-BA, IO-520- BB, IO-520-C, IO- 520-CB, IO-520-D, IO-520-E, IO-520- F, IO-520-J, IO- 520-K, IO-520-L, IO-520-M, IO-520- MB, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO- 520-BB, TSIO-520- C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-B, TSIOL-550-C



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349350-6	653317-1, 10-349350-6, BL-349350-6, S6LN-1225	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	LTSIO-520-AE
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349350-7	653317-2, 10-349350-7, BL-349350-7, S6LN-1225	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	LTSIO-520-AE
S-1200 Series Magneto, 4-Cyl	ES-349365-3	LW-349365-3, LW-349365-3D, 75897, 10-349365-3, BL-349365-3, S4LN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1B, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-



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					B2F, AEIO-360-B2F6, AIO-360-A1B, AIO-360-A2B, AIO-360-B1B, IO-360-A1B, IO-360-A1B6, IO-360-A1D6, IO-360-A2B, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1C, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, O-360-A1F, O-360-A1F6, O-360-A2F, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F
S-1200 Series Magneto, 4-Cyl	ES-349365-3	10-349365-3, BL-349365-3, S4LN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-



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					200-A, RR O-200-B, RR O-200-C
S-1200 Series Magneto, 4-Cyl	ES-349365-6	LW-349365-6, LW-349365-6D, LW-11650, 10-349365-6, BL-349365-6, S4RN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	LIO-360-C1E6
S-1200 Series Magneto, 4-Cyl	ES-349365-9	LW-349365-9, LW-349365-9D, 10-349365-9, BL-349365-9, S4LN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	O-235-K2B, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AIO-360-A1B, AIO-360-B1B, IO-360-A1B, IO-360-A1B6, IO-360-A1D6, IO-360-A2B, IO-360-A3B6, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F
S-1200 Series Magneto, 4-Cyl	ES-349365-10	LW-349365-10, LW-349365-10D, 10-349365-10, BL-349365-10, S4RN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-4 <u>Rev:</u> NEW <u>Date:</u> 04/08/2025 or later FAA-approved revisions	Lycoming Engines	LIO-360-C1E6
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349370-2	LW-349370-2, LW-349370-2D, 75901, 10-349370-2, BL-349370-2	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	GSO-480-B1J6



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Magneto Assembly, S-1200 Series, 6 Cyl	ES-349370-4	LW-349370-4, LW-349370-4D, 75453, 10-349370-4, BL-349370-4, S6LN-1227	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1200-6 <u>Rev:</u> NEW <u>Date:</u> 12/23/2024 or later FAA-approved revisions	Lycoming Engines	AEIO-540-D4B5, HIO-540-A1A, IO-540-C4D5, IO-540-D4B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1F5, IO-540-K1A5, IO-540-K1B5, IO-540-K1E5, IO-540-K1G5, IO-540-K1H5, IO-540-K1K5, IO-540-K2A5, IO-540-L1A5, IO-540-L1C5, IO-540-M1C5, IO-540-T4B5, IO-540-V4A5, IO-540-W1A5, IO-540-AB1A5, IO-540-AC1A5, IO-540-AF1A5, O-540-B2C5, O-540-E4C5, O-540-G1A5, O-540-G2A5, TIO-540-E1A, TIO-540-H1A



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Screw	ES10-35937-24	10-35937-24	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-35937-24 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO- 520-BB, TSIO-520- C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Screw	ES10-35937-24	10-35937-24	Test and Computations per 14 CFR 21.303	Lycoming Engines	TIO-540-AF1A with STC



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			<u>DWG No:</u> ES10-35937-24 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions		SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Screw	ES10-35937-24	10-35937-24	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-35937-24 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C,



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					O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F,



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					TIO-360-A1A, TIO-360-A1B, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1E5, IO-540-G1F5, IO-540-J4A5, IO-540-K1A5, IO-540-K1B5, IO-540-K1E5, IO-540-K1F5, IO-540-K1G5, IO-540-K1H5, IO-540-



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					K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- J2B, O-540-B1D5, O-540-B2C5, O- 540-E4C5, O-540- G1A5, O-540- G2A5, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A, VO-540-B1H3, VO- 540-B2G, VO-540- C2C, TIGO-541- B1A, TIGO-541-



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					D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Screw	ES10-35937-24	10-35937-24	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-35937-24 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-B1A, IO-720-B1B, IO-720-C1B, IO-720-D1B, IO-720-D1C
Sleeve, Clear	ES10-180046-28	10-180046-28	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-180046-28 <u>Rev:</u> - <u>Date:</u> 07/19/2022 or later FAA-approved revisions	Continental Aerospace Technologies Inc	GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE
Sleeve, Clear	ES10-180046-28	10-180046-28	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-180046-28 <u>Rev:</u> - <u>Date:</u> 07/19/2022 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT



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Hartzell Engine Technologies LLC
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Sleeve, Clear	ES10-180046-28	10-180046-28	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-180046-28 <u>Rev:</u> - <u>Date:</u> 07/19/2022 or later FAA-approved revisions	Lycoming Engines	AIO-320-A1A, AIO-320-A2A, IO-320-B1D, AIO-360-A2A, HIO-360-C1B, HIO-360-D1A, IO-360-A1C, IO-360-A2C, IO-360-C1B, TIO-360-A1A, TIO-360-A1B, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1E5, IO-540-G1F5, IO-540-J4A5, IO-540-K1A5, IO-540-K1B5, IO-540-



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					K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, TIO- 540-A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A,



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					TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Sleeve, Clear	ES10-180046-28	10-180046-28	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-180046-28 <u>Rev:</u> - <u>Date:</u> 07/19/2022 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-B1A, IO-720-B1B, IO-720-C1B, IO-720-D1B, IO-720-D1C
Stud, Hex 10-32	ES10-349221	10-349221	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349221 <u>Rev:</u> B <u>Date:</u> 03/31/2023 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, IO-470-D, IO-470-E, IO-470-F, IO-470-



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					G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J,



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					TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Stud, Hex 10-32	ES10-349221	10-349221	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349221 <u>Rev:</u> B <u>Date:</u> 03/31/2023 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540- AF1B with STC SE04445AT installed, TIO-540- AG1A with STC SE04445AT installed, TIO-540- AH1A with STC SE04445AT installed, TIO-540- AJ1A with STC SE04445AT installed, TIO-540- AK1A with STC SE04445AT installed



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Stud, Hex 10-32	ES10-349221	10-349221	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349221 <u>Rev:</u> B <u>Date:</u> 03/31/2023 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-



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					A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F, TIO-360-A1A, TIO-360-A1B, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H,



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					IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4D5, IO-540- D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540-



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					J2B, O-540-B1D5, O-540-B2C5, O- 540-E4C5, O-540- G1A5, O-540- G2A5, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A, VO-540-B1H3, VO- 540-B2G, VO-540- C2C, TIGO-541- B1A, TIGO-541- D1A, TIGO-541- D1B, TIGO-541- E1A, TIO-541- A1A, TIO-541- E1A4, TIO-541- E1B4, TIO-541- E1C4, TIO-541- E1D4, AEIO-580- B1A, IO-580-B1A
Stud, Hex 10-32	ES10-349221	10-349221	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349221 <u>Rev:</u> B <u>Date:</u> 03/31/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO- 720-A1B, IO-720- B1A, IO-720-B1B, IO-720-C1B, IO- 720-D1B, IO-720- D1C



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Washer, Flat	ES10-78655	10-78655	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-78655 <u>Rev:</u> - <u>Date:</u> 01/23/2023 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F,



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					GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO- 520-BB, TSIO-520- C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Washer, Flat	ES10-78655	10-78655	Test and Computations per 14 CFR 21.303	Lycoming Engines	TIO-540-AF1A with STC



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			<u>DWG No:</u> ES10-78655 <u>Rev:</u> - <u>Date:</u> 01/23/2023 or later FAA-approved revisions		SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Washer, Flat	ES10-78655	10-78655	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-78655 <u>Rev:</u> - <u>Date:</u> 01/23/2023 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C,



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					O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F,



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					TIO-360-A1A, TIO-360-A1B, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1E5, IO-540-G1F5, IO-540-J4A5, IO-540-K1A5, IO-540-K1B5, IO-540-K1E5, IO-540-K1F5, IO-540-K1G5, IO-540-K1H5, IO-540-



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Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- J2B, O-540-B1D5, O-540-B2C5, O- 540-E4C5, O-540- G1A5, O-540- G2A5, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A, VO-540-B1H3, VO- 540-B2G, VO-540- C2C, TIGO-541- B1A, TIGO-541-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Washer, Flat	ES10-78655	10-78655	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-78655 <u>Rev:</u> - <u>Date:</u> 01/23/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-B1A, IO-720-B1B, IO-720-C1B, IO-720-D1B, IO-720-D1C
Cable, Clip	ES10-5752	10-5752	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-5752 <u>Rev:</u> - <u>Date:</u> 01/31/2023 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE
Cable, Clip	ES10-5752	10-5752	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-5752 <u>Rev:</u> - <u>Date:</u> 01/31/2023 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Cable, Clip	ES10-5752	10-5752	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-5752 <u>Rev:</u> - <u>Date:</u> 01/31/2023 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					AIO-320-B1B, AIO-320-C1B, IO- 320-B1D, IO-320- B1E, IO-320-D1A, IO-320-D1B, IO- 320-D1C, O-320- D1C, O-320-D1F, O-320-D2C, O-320- D2F, O-320-E1C, O-320-E1F, O-320- E1J, O-320-E2C, O- 320-E2F, AEIO- 360-A1B, AEIO- 360-A1B6, AEIO- 360-A2B, AEIO- 360-B1F, AEIO- 360-B2F, AEIO- 360-B2F6, AIO- 360-A1A, AIO-360- A1B, AIO-360- A2A, AIO-360- A2B, AIO-360- B1B, HIO-360- C1B, IO-360-A1B, IO-360-A1B6, IO- 360-A1C, IO-360- A1D6, IO-360- A2B, IO-360-A2C, IO-360-A3B6, IO- 360-B1E, IO-360- B1F, IO-360-B1F6, IO-360-B2F, IO- 360-B2F6, IO-360- B2E, IO-360-C1B, IO-360-C1C, IO- 360-C1C6, IO-360- C1D6, IO-360-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					C1E6, IO-360-C1F, IO-360-F1A, O- 360-A1F, O-360- A1F6, O-360-A1G, O-360-A1G6, O- 360-A2F, O-360- A2G, O-360-A4G, O-360-C1F, TIO- 360-A1A, TIO-360- A1B, AEIO-540- D4B5, AEIO-540- D4D5, AEIO-540- L1D5, HIO-540- A1A, IO-540-C4D5, IO-540-D4B5, IO- 540-D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, TIO- 540-A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A, VO-540-B1H3, VO- 540-B2G, VO-540- C2C, AEIO-580- B1A, IO-580-B1A
Cable, Clip	ES10-5752	10-5752	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-5752 <u>Rev:</u> - <u>Date:</u> 01/31/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO- 720-A1B, IO-720- B1A, IO-720-B1B, IO-720-C1B, IO- 720-D1B, IO-720- D1C



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cam, 1200	ES10-349243-2	10-349243-2	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349243-2 <u>Rev:</u> - <u>Date:</u> 11/02/2022 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE
Cam, 1200	ES10-349243-2	10-349243-2	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349243-2 <u>Rev:</u> - <u>Date:</u> 11/02/2022 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cam, 1200	ES10-349243-2	10-349243-2	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349243-2 <u>Rev:</u> - <u>Date:</u> 11/02/2022 or later FAA-approved revisions	Lycoming Engines	SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
					O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F, TIO-360-A1A, TIO-360-A1B, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4D5, IO-540- D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- J2B, O-540-B1D5, O-540-B2C5, O-540-E4C5, O-540-G1A5, O-540-G2A5, TIO-540-A1A, TIO-540-A1B, TIO-540-A1C, TIO-540-A2A, TIO-540-A2B, TIO-540-A2C, TIO-540-C1A, TIO-540-E1A, TIO-540-G1A, TIO-540-H1A, TIO-540-J2B, TIO-540-W2A, VO-540-B1H3, VO-540-B2G, VO-540-C2C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Imp. Coupling Assy, CW, 38 Deg	ES10-400341	10-400341	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349243-2 <u>Rev:</u> - <u>Date:</u> 11/02/2022 or later FAA-approved revisions	Lycoming Engines	GSO-480-B1J6
Flat Washer	ES10-349328	10-349328	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349328 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, IO-550-A, IO-550-B, IO-550-C, IO-550-



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					D, IO-550-E, IO-550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Flat Washer	ES10-349328	10-349328	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349328 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Flat Washer	ES10-349328	10-349328	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349328 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, O-320-H2AD, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, HIO-360-E1AD, HIO-360-E1BD, HIO-360-F1AD, IO-360-A1B, IO-360-A1B6, IO-360-A1B6D, IO-360-A1C, IO-360-A1D6, IO-360-A1D6D, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-A3B6D, IO-360-B1E, IO-360-B1F, IO-360-B1F6,



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					IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1E6D, IO-360-C1F, IO-360-F1A, IO-360-J1A6D, LIO-360-C1E6, LO-360-A1G6D, LO-360-E1A6D, LTO-360-E1A6D, O-360-A1AD, O-360-A1F, O-360-A1F6, O-360-A1F6D, O-360-A1G, O-360-A1G6, O-360-A1G6D, O-360-A1LD, O-360-A2F, O-360-A2G, O-360-A3AD, O-360-A4AD, O-360-A4G, O-360-A5AD, O-360-C1F, O-360-E1A6D, TIO-360-A1A, TIO-360-A1B, TIO-360-C1A6D, TO-360-C1A6D, TO-360-E1A6D, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, AEIO-540-L1B5D, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4B5D, IO- 540-C4D5D, IO- 540-D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1A5D, IO-540- K1B5, IO-540- K1E5, IO-540- K1E5D, IO-540- K1F5, IO-540- K1F5D, IO-540- K1G5, IO-540- K1G5D, IO-540- K1H5, IO-540- K1J5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					K1J5D, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1A5D, IO-540- L1B5D, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- M1B5D, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- T4A5D, IO-540- T4B5D, T4C5D, U1A5D, IO-540- V4A5, IO-540- V4A5D, IO-540- W1A5, IO-540- W1A5D, IO-540- W3A5D, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- F2BD, LTIO-540- J2B, LTIO-540- J2BD, LTIO-540- N2BD, LTIO-540- R2AD, LTIO-540- U2A, LTIO-540- V2AD, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O-



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					540-G2A5, O-540- H1B5D, O-540- H2B5D, O-540- J1A5D, O-540- J1B5D, O-540- J1C5D, J2A5D, O- 540-J2B5D, O-540- J2C5D, O-540- J3A5D, O-540- J3C5D, O-540- L3C5D, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- F2BD, TIO-540- J2B, TIO-540- J2BD, TIO-540- K1AD, TIO-540- N2BD, TIO-540- R2AD, TIO-540- S1AD, TIO-540- U2A, TIO-540- V2BD, TIO-540- W2A, TIO-540- AA1AD, TIO-540- AB1AD, VO-540- B1H3, VO-540- B2G, VO-540-C2C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B,



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					TIGO-541-E1A, TIO-541-A1A, TIO- 541-E1A4, TIO- 541-E1B4, TIO- 541-E1C4, TIO- 541-E1D4, AEIO- 580-B1A, IO-580- B1A
Flat Washer	ES10-349328	10-349328	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349328 <u>Rev:</u> - <u>Date:</u> 07/18/2022 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO- 720-A1B, IO-720- A1BD, IO-720- B1A, IO-720-B1B, IO-720-B1BD, IO- 720-C1B, IO-720- C1BD, IO-720- D1B, IO-720- D1BD, IO-720- D1C, IO-720-D1CD
Washer, Bowed	ES10-349249	10-349249	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349249 <u>Rev:</u> - <u>Date:</u> 05/08/2023 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90- 12FH, C90-12FJ, C90-12FP, C90- 14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90- 12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90- 14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O- 200-A, RR O-200- B, RR O-200-C, IO- 470-D, IO-470-E, IO-470-F, IO-470-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J,



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					TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Washer, Bowed	ES10-349249	10-349249	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349249 <u>Rev:</u> - <u>Date:</u> 05/08/2023 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540- AF1B with STC SE04445AT installed, TIO-540- AG1A with STC SE04445AT installed, TIO-540- AH1A with STC SE04445AT installed, TIO-540- AJ1A with STC SE04445AT installed, TIO-540- AK1A with STC SE04445AT installed



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Washer, Bowed	ES10-349249	10-349249	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349249 <u>Rev:</u> - <u>Date:</u> 05/08/2023 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, O-320-H2AD, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, HIO-360-E1AD, HIO-360-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					E1BD, HIO-360- F1AD, IO-360- A1B, IO-360-A1B6, IO-360-A1B6D, IO- 360-A1C, IO-360- A1D6, IO-360- A1D6D, IO-360- A2B, IO-360-A2C, IO-360-A3B6, IO- 360-A3B6D, IO- 360-B1E, IO-360- B1F, IO-360-B1F6, IO-360-B2E, IO- 360-B2F, IO-360- B2F6, IO-360-C1B, IO-360-C1C, IO- 360-C1C6, IO-360- C1D6, IO-360- C1E6, IO-360- C1E6D, IO-360- C1F, IO-360-F1A, IO-360-J1A6D, LIO-360-C1E6, LO- 360-A1G6D, LO- 360-E1A6D, LTO- 360-E1A6D, O-360- A1AD, O-360-A1F, O-360-A1F6, O- 360-A1F6D, O- 360-A1G, O-360- A1G6, O-360- A1G6D, O-360- A1LD, O-360-A2F, O-360-A2G, O-360- A3AD, O-360- A4AD, O-360-A4G, O-360-A5AD, O-



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					360-C1F, O-360- E1A6D, TIO-360- A1A, TIO-360- A1B, TIO-360- C1A6D, TO-360- C1A6D, TO-360- E1A6D, TVO-435- B1B, TVO-435- D1A, TVO-435- F1A, TVO-435- G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, AEIO-540-L1B5D, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4B5D, IO- 540-C4D5D, IO- 540-D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					J4A5, IO-540- K1A5, IO-540- K1A5D, IO-540- K1B5, IO-540- K1E5, IO-540- K1E5D, IO-540- K1F5, IO-540- K1F5D, IO-540- K1G5, IO-540- K1G5D, IO-540- K1H5, IO-540- K1J5, IO-540- K1J5D, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1A5D, IO-540- L1B5D, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- M1B5D, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- T4A5D, IO-540- T4B5D, T4C5D, U1A5D, IO-540- V4A5, IO-540- V4A5D, IO-540- W1A5, IO-540- W1A5D, IO-540- W3A5D, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					AF1A5, IO-540- AG1A5, LTIO-540- F2BD, LTIO-540- J2B, LTIO-540- J2BD, LTIO-540- N2BD, LTIO-540- R2AD, LTIO-540- U2A, LTIO-540- V2AD, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, O-540- H1B5D, O-540- H2B5D, O-540- J1A5D, O-540- J1B5D, O-540- J1C5D, J2A5D, O- 540-J2B5D, O-540- J2C5D, O-540- J3A5D, O-540- J3C5D, O-540- L3C5D, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- F2BD, TIO-540- J2B, TIO-540- J2BD, TIO-540- K1AD, TIO-540- N2BD, TIO-540-



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					R2AD, TIO-540-S1AD, TIO-540-U2A, TIO-540-V2BD, TIO-540-W2A, TIO-540-AA1AD, TIO-540-AB1AD, VO-540-B1H3, VO-540-B2G, VO-540-C2C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Washer, Bowed	ES10-349249	10-349249	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349249 <u>Rev:</u> - <u>Date:</u> 05/08/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-A1BD, IO-720-B1A, IO-720-B1B, IO-720-B1BD, IO-720-C1B, IO-720-C1BD, IO-720-D1B, IO-720-D1BD, IO-720-D1C, IO-720-D1CD
Bearing, Ball	ES10-400567	10-400567	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-400567 <u>Rev:</u> NEW	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F,



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Date:	11/10/2025
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
			<u>Date:</u> 09/18/2024 or later FAA-approved revisions		O-200-A, O-200-B, O-200-C, RR C90- 12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90- 14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O- 200-A, RR O-200- B, RR O-200-C, IO- 470-D, IO-470-E, IO-470-F, IO-470- G, IO-470-J, IO- 470-K, IO-470-L, IO-470-LO, IO-470- M, IO-470-N, IO- 470-P, IO-470-R, IO-470-S, IO-470- U, IO-470-V, IO- 470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520- B, IO-520-BA, IO- 520-BB, IO-520-C, IO-520-CB, IO-520- D, IO-520-E, IO- 520-F, IO-520-J, IO-520-K, IO-520- L, IO-520-M, IO- 520-MB, GTSIO- 520-D, GTSIO-520- E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N,



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Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO- 520-BB, TSIO-520- C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Bearing, Ball	ES10-400567	10-400567	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-400567 <u>Rev:</u> NEW <u>Date:</u> 09/18/2024 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540- AF1B with STC SE04445AT installed, TIO-540-



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					AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Bearing, Ball	ES10-400567	10-400567	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-400567 <u>Rev:</u> NEW <u>Date:</u> 09/18/2024 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, O-320-H2AD, AEIO-360-A1B, AEIO-360-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					A1B6, AEIO-360- A2B, AEIO-360- B1F, AEIO-360- B2F, AEIO-360- B2F6, AIO-360- A1A, AIO-360- A1B, AIO-360- A2A, AIO-360- A2B, AIO-360- B1B, HIO-360- C1B, HIO-360- D1A, HIO-360- E1AD, HIO-360- E1BD, HIO-360- F1AD, IO-360- A1B, IO-360-A1B6, IO-360-A1B6D, IO- 360-A1C, IO-360- A1D6, IO-360- A1D6D, IO-360- A2B, IO-360-A2C, IO-360-A3B6, IO- 360-A3B6D, IO- 360-B1E, IO-360- B1F, IO-360-B1F6, IO-360-B2E, IO- 360-B2F, IO-360- B2F6, IO-360-C1B, IO-360-C1C, IO- 360-C1C6, IO-360- C1D6, IO-360- C1E6, IO-360- C1E6D, IO-360- C1F, IO-360-F1A, IO-360-J1A6D, LIO-360-C1E6, LO- 360-A1G6D, LO-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					360-E1A6D, LTO-360-E1A6D, O-360-A1AD, O-360-A1F, O-360-A1F6, O-360-A1F6D, O-360-A1G, O-360-A1G6, O-360-A1G6D, O-360-A1LD, O-360-A2F, O-360-A2G, O-360-A3AD, O-360-A4AD, O-360-A4G, O-360-A5AD, O-360-C1F, O-360-E1A6D, TIO-360-A1A, TIO-360-A1B, TIO-360-C1A6D, TO-360-C1A6D, TO-360-E1A6D, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, AEIO-540-L1B5D, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H,



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4B5D, IO- 540-C4D5D, IO- 540-D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1A5D, IO-540- K1B5, IO-540- K1E5, IO-540- K1E5D, IO-540- K1F5, IO-540- K1F5D, IO-540- K1G5, IO-540- K1G5D, IO-540- K1H5, IO-540- K1J5, IO-540- K1J5D, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1A5D, IO-540- L1B5D, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- M1B5D, IO-540- P1A5, IO-540- R1A5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					S1A5, IO-540- T4B5, IO-540- T4A5D, IO-540- T4B5D, T4C5D, U1A5D, IO-540- V4A5, IO-540- V4A5D, IO-540- W1A5, IO-540- W1A5D, IO-540- W3A5D, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- F2BD, LTIO-540- J2B, LTIO-540- J2BD, LTIO-540- N2BD, LTIO-540- R2AD, LTIO-540- U2A, LTIO-540- V2AD, O-540- B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, O-540- H1B5D, O-540- H2B5D, O-540- J1A5D, O-540- J1B5D, O-540- J1C5D, J2A5D, O- 540-J2B5D, O-540- J2C5D, O-540- J3A5D, O-540- J3C5D, O-540- L3C5D, TIO-540- A1A, TIO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- F2BD, TIO-540- J2B, TIO-540- J2BD, TIO-540- K1AD, TIO-540- N2BD, TIO-540- R2AD, TIO-540- S1AD, TIO-540- U2A, TIO-540- V2BD, TIO-540- W2A, TIO-540- AA1AD, TIO-540- AB1AD, VO-540- B1H3, VO-540- B2G, VO-540-C2C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO- 541-E1A4, TIO- 541-E1B4, TIO- 541-E1C4, TIO- 541-E1D4, AEIO- 580-B1A
Bearing, Ball	ES10-400567	10-400567	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-400567 <u>Rev:</u> NEW	Textron Lycoming	IO-720-A1A, IO- 720-A1B, IO-720- A1BD, IO-720- B1A, IO-720-B1B,



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			<u>Date:</u> 09/18/2024 or later FAA-approved revisions		IO-720-B1BD, IO-720-C1B, IO-720-C1BD, IO-720-D1B, IO-720-D1BD, IO-720-D1C, IO-720-D1CD
Retainer, Bearing	ES10-349247	10-349247	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349247 <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-200-A, RR O-200-B, RR O-200-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, O-470-R, O-470-S, O-470-U, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, GTSIO-520-D, GTSIO-520-E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, IO-550-A, IO-550-B, IO-550-C, IO-550-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D, IO-550-E, IO-550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Retainer, Bearing	ES10-349247	10-349247	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349247 <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540-AF1B with STC SE04445AT installed, TIO-540-AG1A with STC SE04445AT installed, TIO-540-AH1A with STC SE04445AT installed, TIO-540-AJ1A with STC SE04445AT installed, TIO-540-AK1A with STC SE04445AT installed
Retainer, Bearing	ES10-349247	10-349247	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349247 <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-



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					320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F,



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					IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F, TIO-360-A1A, TIO-360-A1B, TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1E5, IO-540-G1F5, IO-540-



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					J4A5, IO-540- K1A5, IO-540- K1B5, IO-540- K1E5, IO-540- K1F5, IO-540- K1G5, IO-540- K1H5, IO-540- K1J5, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- J2B, O-540-B1D5, O-540-B2C5, O- 540-E4C5, O-540- G1A5, O-540- G2A5, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A,



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					TIO-540-G1A, TIO-540-H1A, TIO-540-J2B, TIO-540-W2A, VO-540-B1H3, VO-540-B2G, VO-540-C2C, TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Retainer, Bearing	ES10-349247	10-349247	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349247 <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-B1A, IO-720-B1B, IO-720-C1B, IO-720-D1B, IO-720-D1C
Gear, Spur, 1200 Series, 4-Cyl	ES10-349241	10-349241	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349241 <u>Rev:</u> - <u>Date:</u> 04/18/2022 or later FAA-approved revisions	Continental Aerospace Technologies Inc	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, O-200-A, O-200-B, O-200-C, RR C90-12F, RR C90-12FH, RR C90-12FJ, RR C90-12FP, RR C90-14F, RR C90-14FH, RR C90-14FJ, RR C90-16F, RR O-



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Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					200-A, RR O-200-B, RR O-200-C
Gear, Spur, 1200 Series, 4-Cyl	ES10-349241	10-349241	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349241 <u>Rev:</u> - <u>Date:</u> 04/18/2022 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235-E2B, O-235-F2B, O-235-G2B, O-235-J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO-320-B1D, IO-320-B1E, IO-320-D1A, IO-320-D1B, IO-320-D1C, O-320-D1C, O-320-D1F, O-320-D2C, O-320-D2F, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2C, O-320-E2F, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A2B, AEIO-360-B1F, AEIO-360-B2F, AEIO-360-B2F6, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-C1B, HIO-360-



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					D1A, IO-360-A1B, IO-360-A1B6, IO-360-A1C, IO-360-A1D6, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1F, IO-360-F1A, LIO-360-C1E6, O-360-A1F, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A2F, O-360-A2G, O-360-A4G, O-360-C1F, TIO-360-A1A, TIO-360-A1B
Gear, Spur, 1200 Series, 4-Cyl	ES10-349241	10-349241	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349241 <u>Rev:</u> - <u>Date:</u> 04/18/2022 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-B1A, IO-720-B1B, IO-720-C1B, IO-720-D1B, IO-720-D1C
Gear, Spur, 1200 Series, 6-Cyl	ES10-349242	10-349242	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349242 <u>Rev:</u> -	Continental Aerospace Technologies Inc	IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-



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			<u>Date:</u> 05/12/2022 or later FAA-approved revisions		470-M, IO-470-N, IO-470-P, IO-470- R, IO-470-S, IO- 470-U, IO-470-V, IO-470-VO, O-470- R, O-470-S, O-470- U, IO-520-A, IO- 520-B, IO-520-BA, IO-520-BB, IO-520- C, IO-520-CB, IO- 520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520- L, IO-520-M, IO- 520-MB, GTSIO- 520-D, GTSIO-520- E, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, LTSIO-520-AE, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO- 520-BB, TSIO-520- C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-L, TSIOL-550-A, TSIOL-550-C
Gear, Spur, 1200 Series, 6-Cyl	ES10-349242	10-349242	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349242 <u>Rev:</u> - <u>Date:</u> 05/12/2022 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540- AF1B with STC SE04445AT installed, TIO-540- AG1A with STC SE04445AT installed, TIO-540- AH1A with STC SE04445AT installed, TIO-540- AJ1A with STC SE04445AT installed, TIO-540- AK1A with STC SE04445AT installed



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Gear, Spur, 1200 Series, 6-Cyl	ES10-349242	10-349242	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-349242 <u>Rev:</u> - <u>Date:</u> 05/12/2022 or later FAA-approved revisions	Lycoming Engines	TVO-435-B1B, TVO-435-D1A, TVO-435-F1A, TVO-435-G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO-540-C4D5, IO-540-D4B5, IO-540-D4C5, IO-540-E1B5, IO-540-E1C5, IO-540-G1B5, IO-540-G1C5, IO-540-G1D5, IO-540-G1E5, IO-540-G1F5, IO-540-J4A5, IO-540-K1A5, IO-540-K1B5, IO-540-K1E5, IO-540-K1F5, IO-540-K1G5, IO-540-K1H5, IO-540-K1J5, IO-540-K1K5, IO-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					K2A5, IO-540- L1A5, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- V4A5, IO-540- W1A5, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- J2B, O-540-B1D5, O-540-B2C5, O- 540-E4C5, O-540- G1A5, O-540- G2A5, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- J2B, TIO-540-W2A, VO-540-B1H3, VO- 540-B2G, VO-540- C2C, TIGO-541- B1A, TIGO-541- D1A, TIGO-541- D1B, TIGO-541-



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					E1A, TIO-541- A1A, TIO-541- E1A4, TIO-541- E1B4, TIO-541- E1C4, TIO-541- E1D4, AEIO-580- B1A, IO-580-B1A
Clamp, Magnet	ES66M19385	66M19385	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES66M19385 <u>Rev:</u> NEW <u>Date:</u> 03/12/2025 or later FAA-approved revisions	Lycoming Engines	TIO-540-AF1A with STC SE04445AT installed, TIO-540- AF1B with STC SE04445AT installed, TIO-540- AG1A with STC SE04445AT installed, TIO-540- AH1A with STC SE04445AT installed, TIO-540- AJ1A with STC SE04445AT installed, TIO-540- AK1A with STC SE04445AT installed
Clamp, Magnet	ES66M19385	66M19385	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES66M19385 <u>Rev:</u> NEW <u>Date:</u> 03/12/2025 or later FAA-approved revisions	Lycoming Engines	O-235-C2B, O-235- E2B, O-235-F2B, O-235-G2B, O-235- J2B, O-235-K2B, AEIO-320-D1B, AEIO-320-D2B, AIO-320-A1A, AIO-320-A1B, AIO-320-A2A,



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					AIO-320-A2B, AIO-320-B1B, AIO-320-C1B, IO- 320-B1D, IO-320- B1E, IO-320-D1A, IO-320-D1B, IO- 320-D1C, O-320- D1C, O-320-D1F, O-320-D2C, O-320- D2F, O-320-E1C, O-320-E1F, O-320- E1J, O-320-E2C, O- 320-E2F, O-320- H2AD, AEIO-360- A1B, AEIO-360- A1B6, AEIO-360- A2B, AEIO-360- B1F, AEIO-360- B2F, AEIO-360- B2F6, AIO-360- A1A, AIO-360- A1B, AIO-360- A2A, AIO-360- A2B, AIO-360- B1B, HIO-360- C1B, HIO-360- D1A, HIO-360- E1AD, HIO-360- E1BD, HIO-360- F1AD, IO-360- A1B, IO-360-A1B6, IO-360-A1B6D, IO- 360-A1C, IO-360- A1D6, IO-360- A1D6D, IO-360- A2B, IO-360-A2C, IO-360-A3B6, IO-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					360-A3B6D, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1E6D, IO-360-C1F, IO-360-F1A, IO-360-J1A6D, LIO-360-C1E6, LO-360-A1G6D, LO-360-E1A6D, LTO-360-E1A6D, O-360-A1AD, O-360-A1F, O-360-A1F6, O-360-A1F6D, O-360-A1G, O-360-A1G6, O-360-A1G6D, O-360-A1LD, O-360-A2F, O-360-A2G, O-360-A3AD, O-360-A4AD, O-360-A4G, O-360-A5AD, O-360-C1F, O-360-E1A6D, TIO-360-A1A, TIO-360-A1B, TIO-360-C1A6D, TO-360-C1A6D, TO-360-E1A6D, TVO-435-B1B, TVO-435-D1A, TVO-435-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					F1A, TVO-435- G1A, VO-435-B1A, GSO-480-B1J6, AEIO-540-D4B5, AEIO-540-D4D5, AEIO-540-L1D5, AEIO-540-L1B5D, HIO-540-A1A, IGO-540-A1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO- 540-C4B5D, IO- 540-C4D5D, IO- 540-D4B5, IO-540- D4C5, IO-540- E1B5, IO-540- E1C5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540- J4A5, IO-540- K1A5, IO-540- K1A5D, IO-540- K1B5, IO-540- K1E5, IO-540- K1E5D, IO-540- K1F5, IO-540- K1F5D, IO-540- K1G5, IO-540-



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					K1G5D, IO-540- K1H5, IO-540- K1J5, IO-540- K1J5D, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1A5D, IO-540- L1B5D, IO-540- L1C5, IO-540- M1A5, IO-540- M1C5, IO-540- M1B5D, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4B5, IO-540- T4A5D, IO-540- T4B5D, T4C5D, U1A5D, IO-540- V4A5, IO-540- V4A5D, IO-540- W1A5, IO-540- W1A5D, IO-540- W3A5D, IO-540- AA1A5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AF1A5, IO-540- AG1A5, LTIO-540- F2BD, LTIO-540- J2B, LTIO-540- J2BD, LTIO-540- N2BD, LTIO-540- R2AD, LTIO-540- U2A, LTIO-540- V2AD, O-540-



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					B1D5, O-540- B2C5, O-540-E4C5, O-540-G1A5, O- 540-G2A5, O-540- H1B5D, O-540- H2B5D, O-540- J1A5D, O-540- J1B5D, O-540- J1C5D, J2A5D, O- 540-J2B5D, O-540- J2C5D, O-540- J3A5D, O-540- J3C5D, O-540- L3C5D, TIO-540- A1A, TIO-540- A1B, TIO-540- A1C, TIO-540- A2A, TIO-540- A2B, TIO-540- A2C, TIO-540- C1A, TIO-540-E1A, TIO-540-G1A, TIO- 540-H1A, TIO-540- F2BD, TIO-540- J2B, TIO-540- J2BD, TIO-540- K1AD, TIO-540- N2BD, TIO-540- R2AD, TIO-540- S1AD, TIO-540- U2A, TIO-540- V2BD, TIO-540- W2A, TIO-540- AA1AD, TIO-540- AB1AD, VO-540- B1H3, VO-540- B2G, VO-540-C2C,



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					TIGO-541-B1A, TIGO-541-D1A, TIGO-541-D1B, TIGO-541-E1A, TIO-541-A1A, TIO-541-E1A4, TIO-541-E1B4, TIO-541-E1C4, TIO-541-E1D4, AEIO-580-B1A, IO-580-B1A
Clamp, Magneto	ES66M19385	66M19385	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES66M19385 <u>Rev:</u> NEW <u>Date:</u> 03/12/2025 or later FAA-approved revisions	Textron Lycoming	IO-720-A1A, IO-720-A1B, IO-720-A1BD, IO-720-B1A, IO-720-B1B, IO-720-B1BD, IO-720-C1B, IO-720-C1BD, IO-720-D1B, IO-720-D1BD, IO-720-D1C, IO-720-D1CD
Screw, Self-Locking	ES1351-3LE24P	NAS1351-3LE24P	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1351-3LE24P <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Continental Aerospace Technologies Inc	TSIOL-550-A
Screw, Self-Locking	ES1351-3LE24P	NAS1351-3LE24P	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1351-3LE24P <u>Rev:</u> NEW	Lycoming Engines	LTIO-540-U2A, TIO-540-U2A, TIGO-541-E1A



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<u>Date:</u> 11/25/2024 or later FAA-approved revisions					
Screw, Self-Locking	ES1351-3LE24P	NAS1351-3LE24P	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES1351-3LE24P <u>Rev:</u> NEW <u>Date:</u> 11/25/2024 or later FAA-approved revisions	Textron Lycoming	IO-720-B1B
O-Ring	ES10-90351-9	10-90351-9	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-90351-9 <u>Rev:</u> C <u>Date:</u> 05/23/2023 or later FAA-approved revisions	Continental Aerospace Technologies Inc	TSIOL-550-A
O-Ring	ES10-90351-9	10-90351-9	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-90351-9 <u>Rev:</u> C <u>Date:</u> 05/23/2023 or later FAA-approved revisions	Lycoming Engines	LTIO-540-U2A, TIO-540-U2A, TIGO-541-E1A
O-Ring	ES10-90351-9	10-90351-9	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-90351-9 <u>Rev:</u> C <u>Date:</u> 05/23/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-B1B
Gasket, 1200 Harness	ES10-391391	10-391391	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391391 <u>Rev:</u> -	Continental Aerospace Technologies Inc	TSIOL-550-A



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			<u>Date:</u> 04/25/2023 or later FAA-approved revisions		
Gasket, 1200 Harness	ES10-391391	10-391391	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391391 <u>Rev:</u> - <u>Date:</u> 04/25/2023 or later FAA-approved revisions	Lycoming Engines	LTIO-540-U2A, TIO-540-U2A, TIGO-541-E1A
Gasket, 1200 Harness	ES10-391391	10-391391	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391391 <u>Rev:</u> - <u>Date:</u> 04/25/2023 or later FAA-approved revisions	Textron Lycoming	IO-720-B1B
Gasket	ES10-391401	10-391401	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391401 <u>Rev:</u> C <u>Date:</u> 12/22/2022 or later FAA-approved revision	Continental Aerospace Technologies Inc	TSIOL-550-A
Gasket	ES10-391401	10-391401	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391401 <u>Rev:</u> C <u>Date:</u> 12/22/2022 or later FAA-approved revision	Lycoming Engines	LTIO-540-U2A, TIO-540-U2A, TIGO-541-E1A
Gasket	ES10-391401	10-391401	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> ES10-391401 <u>Rev:</u> C <u>Date:</u> 12/22/2022 or later FAA-approved revision	Textron Lycoming	IO-720-B1B



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Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Continental Motors Inc	A-40, A-40-2, A-40-3, A-40-4, A-40-5, A-80-8, A-80-8J, A-80-9J, A-80-9
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Continental Aerospace Technologies Inc.	A-50-1, A-50-3, A-50-4, A-50-4J, A-50-5, A-50-5J, A-50-6, A-50-6J, A-50-7, A-50-7J, A-50-8, A-50-8J, A-50-9, A-50-9J, A-65-1, A-65-12, A-65-12F, A-65-12FJ, A-65-12J, A-65-14, A-65-14F, A-65-14FJ, A-65-14J, A-65-3, A-65-6, A-65-6J, A-65-7, A-65-8, A-65-8F, A-65-8FJ, A-65-8J, A-65-9, A-65-9F, A-65-9FJ, A-65-9J, A75-3, A75-8, A75-8F, A75-8J, A75-8FJ, A75-9, A75-9J, C75-12, C75-12B, C75-12BF, C75-12BFH, C75-12F, C75-12FH, C75-12FHJ, C75-12FJ, C75-12J, C75-15, C75-15F, C75-8, C75-8F, C75-8FH, C75-8FHJ, C75-8FJ,



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					C75-8J, C85-12, C85-12F, C85- 12FH, C85-12FHJ, C85-12FJ, C85-12J, C85-14F, C85-15, C85-15F, C85-8, C85-8F, C85-8FHJ, C85-8FJ, C85-8J, C90-12F, C90- 12FH, C90-12FJ, C90-12FP, C90- 14F, C90-14FH, C90-14FJ, C90-16F, C90-8F, C90-8FJ, O-200-A, O-200-B, O-200-C, C-125-2, C-145-2, C-145-2H, E-165-2, E-165-3, E-165-4, E-185-1, E-185-2, E-185-3, E-185-5, E-185-8, E-185-9, E-185-10, E-185-11, E-225-2, E-225-4, E-225-8, E-225-9, IO-240-A, RR O-240-A, 6- 285-B, 6-285-C, 6- 320-B, GO-300-A, GO-300-B, GO- 300-C, GO-300-D, GO-300-E, GO-300- F, O-300-A, O-300- B, O-300-C, O-300- D, O-300-E, IO- 346-A, IO-346-B, IO-360-A, IO-360- C, IO-360-CB, IO-



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					360-D, IO-360-DB, IO-360-ES, IO-360- G, IO-360-GB, IO- 360-H, IO-360-HB, IO-360-J, IO-360- JB, IO-360-K, IO- 360-KB, LTSIO- 360-E, LTSIO-360- EB, LTSIO-360- KB, TSIO-360-A, TSIO-360-AB, TSIO-360-B, TSIO- 360-C, TSIO-360- CB, TSIO-360-D, TSIO-360-DB, TSIO-360-E, TSIO- 360-EB, TSIO-360- F, TSIO-360-FB, TSIO-360-GB, TSIO-360-H, TSIO- 360-HB, TSIO-360- JB, TSIO-360-KB, TSIO-360-LB, TSIO-360-MB, TSIO-360-SB, IO- 370-CL, IO-370- CM, IO-370-C1F, IO-370-DA3A, IO- 370-D3A, GIO-470- A, IO-470-C, IO- 470-D, IO-470-E, IO-470-F, IO-470- G, IO-470-H, IO- 470-J, IO-470-K, IO-470-L, IO-470- M, IO-470-N, IO- 470-P, IO-470-R,



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					IO-470-S, IO-470-U, IO-470-V, O-470-A, O-470-B, O-470-E, O-470-G, O-470-J, O-470-K, O-470-L, O-470-M, O-470-P, O-470-R, O-470-S, O-470-U, O-470-2, O-470-4, O-470-7, O-470-7A, O-470-7B, O-470-11, O-470-11B, O-470-13, O-470-13A, O-470-15, TSIO-470-B, TSIO-470-C, TSIO-470-D, GTSIO-520-C, GTSIO-520-D, GTSIO-520-F, GTSIO-520-H, GTSIO-520-K, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, GTSIO-520-S, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, LTSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-



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					520-BB, TSIO-520- BE, TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO- 520-DB, TSIO-520- E, TSIO-520-EB, TSIO-520-G, TSIO- 520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO- 520-KB, TSIO-520- L, TSIO-520-LB, TSIO-520-M, TSIO- 520-N, TSIO-520- NB, TSIO-520-P, TSIO-520-R, TSIO- 520-T, TSIO-520- UB, TSIO-520-VB, TSIO-520-WB, IO- 550-A, IO-550-B, IO-550-C, IO-550- D, IO-550-E, IO- 550-F, IO-550-G, IO-550-L, IO-550- N, IO-550-P, IO- 550-R, TSIO-550- A, TSIO-550-B, TSIO-550-C, TSIO- 550-E, TSIO-550-G, TSIO-550-K, TSIO- 550-N, TSIO-550- A
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F	Lycoming Engines	O-235-A, O-235- AP, O-235-B, O- 235-BP, O-235-C1, O-235-C1A, O-235-



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			<u>Date:</u> 01/18/2025 or later FAA-approved revision		C1B, O-235-C1C, O-235-C2A, O-235- C2B, O-235-C2C, O-235-E1, O-235- E1B, O-235-E2A, O-235-E2B, O-235- F1, O-235-F1B, O- 235-F2A, O-235- F2B, O-235-G1, O- 235-G1B, O-235- G2A, O-235-G2B, O-235-H2C, O-235- J2A, O-235-J2B, O- 235-K2A, O-235- K2B, O-235-K2C, O-235-L2A, O-235- L2C, O-235-M1, O- 235-M2C, O-235- M3C, O-235-N2A, O-235-N2C, O-235- P1, O-235-P2A, O- 235-P2C, O-235- P3C, AIO-320- A1A, AIO-320- A1B, AIO-320- A2A, AIO-320- A2B, AIO-320- B1B, AIO-320- C1B, AEIO-320- D1B, AEIO-320- D2B, AEIO-320- E1A, AEIO-320- E1B, AEIO-320- E2A, AEIO-320- E2B, IO-320-A1A, IO-320-A2A, IO- 320-B1A, IO-320-



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					B1B, IO-320-B1C, IO-320-B1D, IO- 320-B1E, IO-320- B2A, IO-320-C1A, IO-320-C1B, IO- 320-D1A, IO-320- D1B, IO-320-D1C, IO-320-E1A, IO- 320-E1B, IO-320- E2A, IO-320-E2B, IO-320-F1A, LIO- 320-B1A, LIO-320- C1A, O-320-A1A, O-320-A1B, O-320- A2A, O-320-A2B, O-320-A2C, O-320- A2D, O-320-A3A, O-320-A3B, O-320- A3C, O-320-B1A, O-320-B1B, O-320- B2A, O-320-B2B, O-320-B2C, O-320- B3A, O-320-B3B, O-320-B3C, O-320- C1A, O-320-C1B, O-320-C2A, O-320- C2B, O-320-C2C, O-320-C3A, O-320- C3B, O-320-C3C, O-320-D1A, O-320- D1B, O-320-D1D, O-320-D1F, O-320- D2A, O-320-D2B, O-320-D2C, O-320- D2F, O-320-D2G, O-320-D2H, O-320- D2J, O-320-D3G,



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					O-320-E1A, O-320-E1B, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2A, O-320-E2B, O-320-E2C, O-320-E2D, O-320-E2F, O-320-E2G, O-320-E2H, O-320-E3D, O-320-E3H, O-320-H1AD, O-320-H1BD, O-320-H2AD, O-320-H2BD, O-320-H3AD, O-320-H3BD, O-340-A1A, O-340-A2A, O-340-B1A, AIO-360-A1A, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, AEIO-360-A1A, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A1D, AEIO-360-A1E, AEIO-360-A2A, AEIO-360-A2B, AEIO-360-B1B, AEIO-360-B1F, AEIO-360-B1F6, AEIO-360-B1G6, AEIO-360-B2F, AEIO-360-B4A, AEIO-360-H1A, HIO-360-A1A, HIO-360-



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					B1A, HIO-360- B1B, HIO-360- C1A, HIO-360- C1B, HIO-360- D1A, HIO-360- E1AD, HIO-360- E1BD, HIO-360- F1AD, HO-360- A1A, HO-360-B1A, HO-360-B1B, IO- 360-A1A, IO-360- A1B, IO-360-A1B6, IO-360-A1B6D, IO- 360-A1C, IO-360- A1D, IO-360- A1D6, IO-360- A1D6D, IO-360- A2A, IO-360-A2B, IO-360-A2C, IO- 360-A3B6, IO-360- A3B6D, IO-360- A3D6D, IO-360- B1A, IO-360-B1B, IO-360-B1C, IO- 360-B1D, IO-360- B1E, IO-360-B1F, IO-360-B1F6, IO- 360-B2E, IO-360- B2F, IO-360-B2F6, IO-360-B4A, IO- 360-C1A, IO-360- C1B, IO-360-C1C, IO-360-C1C6, IO- 360-C1D6, IO-360- C1E6, IO-360- C1E6D, IO-360- C1F, IO-360-D1A,



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					IO-360-E1A, IO-360-F1A, IO-360-J1A6D, IO-360-J1AD, IO-360-K2A, IO-360-L2A, IO-360-M1A, IO-360-M1B, IO-360-N1A, IO-360-P1A, IVO-360-A1A, LO-360-A1G6D, LO-360-A1H6, LO-360-E1A6D, LO-360-E1AD, LO-360-E1BD, LO-360-E2AD, LO-360-E2BD, LIO-360-C1E6, O-360-A1A, O-360-A1C, O-360-A1D, O-360-A1F6, O-360-A1G, O-360-A1G6, O-360-A1H, O-360-A1N6, O-360-A2A, O-360-A2D, O-360-A2E, O-360-A2F, O-360-A2G, O-360-A2H, O-360-A3A, O-360-A3D, O-360-A4A, O-360-A4D, O-360-A4G, O-360-A4J, O-360-A4K, O-360-A4M, O-360-A4N, O-360-A4P, O-360-B1A, O-360-B1B, O-360-B2A, O-360-B2B, O-360-C1A, O-360-C1C, O-360-



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					C1E, O-360-C1F, O-360-C1G, O-360- C2A, O-360-C2B, O-360-C2C, O-360- C2D, O-360-C2E, O-360-C4P, O-360- D1A, O-360-D2A, O-360-D2B, O-360- F1A6, O-360- G1A6, TIO-360- A1A, TIO-360- A1B, TO-360- A1A6D, TO-360- C1A6D, TO-360- E1A6D, TO-360- F1A6D, VO-360- A1A, VO-360-A1B, VO-360-B1A, GO- 435-C2, O-435-17, GO-435-C2A, GO- 435-C2A2, GO-435- C2B, GO-435- C2B1, GO-435- C2B2, GO-435- C2C, GO-345-C2D, GO-435-C2E, GO- 435-D1, O-435-25, O-435-A, O-435- A2, O-435-C, O- 435-C1, O-435-C2, O-435-K1, TVO- 435-A1A, TVO- 435-B1A, O-435- 25A, TVO-435- B1B, TVO-435- C1A, TVO-435- D1A, TVO-435-



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					D1B, TVO-435- E1A, TVO-435- F1A, TVO-435- G1A, TVO-435- G1B, VO-435-A1A, O-435-21, VO-435- A1B, O-435-6, VO- 435-A1C, O-435- 23, O-435-23A, O- 435-23B, O-435- 23C, VO-435-A1D, O-435-6A, VO-435- A1E, VO-435-A1F, VO-435-B1A, GO- 480-A1A, GO-480- B, GO-480-B1, GO- 480-B1A6, GO-480- B1B, GO-480-B1C, GO-480-B1D, GO- 480-C1B6, GO-480- C1D6, GO-480- C2C6, GO-480- C2D6, GO-480- C2E6, GO-480- C3A6, GO-480- D1A, GO-480- E1A6, GO-480- F1A6, GO-480- F2A6, GO-480- F2D6, GO-480- F3A6, GO-480- F3B6, GO-480- F4A6, GO-480- F4B6, GO-480-F6, GO-480-G1A6, GO- 480-G1B6, GO-480- G1D6, GO-480-



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					G1H6, GO-480- G1J6, GO-480- G2D6, GO-480- G2F6, GSO-480- A1A6, GSO-480- A1C6, GSO-480- A2A6, GSO-480- B1A6, GSO-480- B1B3, GSO-480- B1B6, O-480-1, GSO-480-B1C6, GSO-480-B1E6, GSO-480-B1F6, GSO-480-B1G6, GSO-480-B1J6, GSO-480-B2C6, GSO-480-B2D6, GSO-480-B2G6, GSO-480-B2H6, IGO-480-A1A6, IGO-480-A1B6, IGSO-480-A1A6, IGSO-480-A1B6, IGSO-480-A1C6, IGSO-480-A1D6, IGSO-480-A1E6, IGSO-480-A1F3, IGSO-480-A1F6, O- 480-1A, O-480-3, AEIO-540-D4A5, AEIO-540-D4B5, AEIO-540-D4C5, AEIO-540-D4D5, AEIO-540-L1B5, AEIO-540-L1B5D, AEIO-540-L1D5, HIO-540-A1A,



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Hartzell Engine Technologies LLC
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PMA No.:	PQ1383CE
Supplement No.:	094
Date:	11/10/2025
Project No.:	HET-PMA-ODA-037

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					IGO-540-A1A, IGO-540-A1B, IGO-540-A1C, IGO-540-B1A, IGO-540-B1B, IGO-540-B1C, IGSO-540-A1A, IGSO-540-A1C, IGSO-540-A1D, IGSO-540-A1E, IGSO-540-A1F, IGSO-540-A1H, IGSO-540-B1A, IGSO-540-B1C, IO- 540-A1A5, IO-540- B1A5, IO-540- B1B5, IO-540- B1C5, IO-540- C1B5, IO-540- C1C5, IO-540-C2C, IO-540-C4B5, IO- 540-C4B5D, IO- 540-C4C5, IO-540- C4D5, IO-540- C4D5D, IO-540- D4A5, IO-540- D4B5, IO-540- D4C5, IO-540- E1A5, IO-540- E1B5, IO-540- E1C5, IO-540- G1A5, IO-540- G1B5, IO-540- G1C5, IO-540- G1D5, IO-540- G1E5, IO-540- G1F5, IO-540-



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					J4A5, IO-540- K1A5, IO-540- K1A5D, IO-540- K1B5, IO-540- K1B5D, IO-540- K1C5, IO-540- K1D5, IO-540- K1E5, IO-540- K1E5D, IO-540- K1F5, IO-540- K1F5D, IO-540- K1G5, IO-540- K1G5D, IO-540- K1H5, IO-540- K1J5, IO-540- K1J5D, IO-540- K1K5, IO-540- K2A5, IO-540- L1A5, IO-540- L1A5D, IO-540- L1B5D, IO-540- L1C5, IO-540- M1A5, IO-540- M1A5D, IO-540- M1B5D, IO-540- M1C5, IO-540- M2A5D, IO-540- N1A5, IO-540- P1A5, IO-540- R1A5, IO-540- S1A5, IO-540- T4A5D, IO-540- T4B5, IO-540- T4B5D, IO-540- T4C5D, IO-540- U1A5D, IO-540- U1B5D, IO-540-



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					V4A5, IO-540- V4A5D, IO-540- W1A5, IO-540- W1A5D, IO-540- W3A5D, IO-540- AA1A5, IO-540- AA1B5, IO-540- AB1A5, IO-540- AC1A5, IO-540- AE1A5, IO-540- AF1A5, IO-540- AG1A5, IVO-540- A1A, LTIO-540- F2BD, LTIO-540- J2B, LTIO-540- J2BD, LTIO-540- K1AD, LTIO-540- N2BD, LTIO-540- R2AD, LTIO-540- U2A, LTIO-540- V2AD, LTIO-540- W2A, O-540-A1A, O-540-A1A5, O- 540-A1B5, O-540- A1C5, O-540- A1D, O-540-A1D5, O-540-A2B, O-540- A3D5, O-540- A4A5, O-540- A4B5, O-540- A4C5, O-540- A4D5, O-540- B1A5, O-540- B1B5, O-540- B1D5, O-540- B2A5, O-540- B2B5, O-540-B2C5,



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					O-540-B4A5, O-540-B4B5, O-540-D1A5, O-540-E4A5, O-540-E4B5, O-540-E4C5, O-540-F1A5, O-540-F1B5, O-540-G1A5, O-540-G2A5, O-540-H1A5, O-540-H1A5D, O-540-H2A5, O-540-H2A5D, O-540-H2B5D, O-540-J1A5D, O-540-J1B5D, O-540-J1C5D, O-540-J1D5D, O-540-J2A6D, O-540-J2B5D, O-540-J2C5D, O-540-J2D5D, O-540-J3A5, O-540-L3C5D, TIO-540-A1A, TIO-540-A1B, TIO-540-A1C, TIO-540-A2A, TIO-540-A2B, TIO-540-A2C, TIO-540-C1A, TIO-540-E1A, TIO-540-F2BD, TIO-540-G1A, TIO-540-H1A, TIO-540-J2B, TIO-540-J2BD, TIO-540-K1AD, TIO-540-N2BD, TIO-540-



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					R2AD, TIO-540- S1AD, TIO-540- T2AD, TIO-540- U2A, TIO-540- V2AD, TIO-540- W2A, TIO-540- AA1AD, TIO-540- AB1AD, TIO-540- AE2A, TIO-540- AF1A, TIO-540- AF1B, TIO-540- AG1A, TIO-540- AH1A, TIO-540- AJ1A, TIO-540- AK1A, TIVO-540- A2A, VO-540-A1A, VO-540-A2A, VO- 540-B1A, VO-540- B1B, VO-540- B1B3, VO-540- B1C, VO-540-B1D, VO-540-B1E, VO- 540-B1F, VO-540- B1H3, VO-540- B2A, VO-540-B2C, VO-540-B2D, VO- 540-B2E, VO-540- B2G, VO-540-C1A, VO-540-C1B, VO- 540-C1C3, VO-540- C2A, O-540-9, VO- 540-C2B, VO-540- C2C, TIGO-541- B1A, TIGO-540- C1A, TIGO-541- D1A, TIGO-541- D1B, TIGO-541-



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					E1A, TIGO-541- G1AD, TIO-541- A1A, TIO-541- E1A4, TIO-541- E1B4, TIO-541- E1C4, TIO-541- E1D4, TIVO-540- A1A, AEIO-580- B1A, IO-580-B1A
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Textron Lycoming Subsidiary of Textron Inc.	IO-720-A1A, IO- 720-A1B, IO-720- A1BD, IO-720- B1A, IO-720-B1B, IO-720-B1BD, IO- 720-C1B, IO-720- C1BD, IO-720- D1B, IO-720- D1BD, IO-720- D1C, IO-720-D1CD
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Lycoming Division AVCO Corporation	O-290-D, O-290- D2, O-290-D2A, O- 290-D2B, O-290- D2C
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	AVCO Lycoming	GO-145-C2, GO- 145-C3, O-145-B2, O-145-B3, O-145- C2



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Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Franklin Engine Company	O-175-1, 4AC-176-B2, 4AC-176-B3, 4AC-176-BA2, 4AC-176-BA3, 4AC-176-C2, 4AC-176-C3, 4AC-176-D2, 4AC-176-D3, 4AC-176-F2, 4AC-176-F3, 4AC-199-B2, 4AC-199-B3, 4AC-199-D2, 4AC-199-D3, 4AC-199-E2, 4AC-199-E3, 4AC-199-E4, O-200-1
Spring & Brush Assembly	AB-160844	10-160844	Test and Computations per 14 CFR 21.303 <u>DWG No:</u> AB-160844 <u>Rev:</u> F <u>Date:</u> 01/18/2025 or later FAA-approved revision	Franklin Sp. Z.o.o.	4A-235-B, 4A-235-B2, 4A-235-B3, 4A-235-B316A4-150-B3, 6A4-150-B4, 6A4-150-B31, 6A4-165-B4, 6A4-165-B3, 6A4-165-B6, 6A4-200-C6, 6A-335-A, 6A-335-B, 6AS-335-A, 6AS-335-B, 6A-350-C1A, 6A-350-A2A, 6A-350-C1R, 6A-350-C1, 6A-350-C2, 6A-350-C2A, 6A-350-D1, 6A-350-D1A, 6A-350-D1B, 6AS-350-A, 6AS-350-A1

-----End of Listing-----



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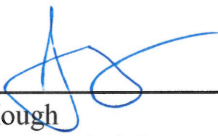
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NOTE: Minor design changes (reference 14 CFR §§ 21.319 and 21.619) and major design changes (reference 14 CFR §§ 21.319 and 21.619) to drawings and specifications must be accomplished in accordance with the FAA approved PMA ODA procedures manual



Judd Hough
PMA ODA Administrator
Hartzell Engine Technologies LLC

11/10/25

Date