



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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Screw	ES10-35936-7	Continental 10-35936-7	Identity per 14 CFR 21.303 <u>DWG No:</u> ES10-35936-7 <u>Rev:</u> O <u>Date:</u> 9/11/95 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, -6J, -7, -7J, -8, -8J, -9, -9J, A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, -8, -8J, -9, -9J, C75-12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F, -8, -8F, -8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, C-125-1, -2, C145-2, -2H, -2HP, -2, -2H, -2HP, E165-2, -3,



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					-4, E185-1, -10, -11, -2, -3, -5, -8, -9, E225-2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, -EB, -KB, -RB, -E, -EB, -KB, -RB, GIO-470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO, O-470-11, -11B, -11B-CI, -11-CI, -13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U, GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N, IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -



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					JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R,
				Lycoming Engines	O-235 -A, -AP, - B, -BP, -C, -C1, - C1A, -C1B, - C1C, -C2A, - C2B, -C2C, -E1, -E1B, -E2A, - E2B, -F1, -F1B, - F2A, -F2B, -G1, - G1B, -G2A, - G2B, -H2C, - J2A, -J2B, -K2A, -K2B, -K2C, - L2A, -L2C, -M1, -M2C, -M3C, - N2A, -N2C, -P1, -P2A, -P2C, - P3C, O-290-A, - AP, -B, -C, -CP, - D, -D2, -D2A, - D2B, -D2C, AIO- 320-A1A, -A1B, -A2A, -A2B, - B1B, -C1B, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, -



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					D1C, -E1A, - E1B, -E2A, - E2B, -F1A, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, LIO-320- B1A, C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B2D, -B2E, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, , - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1C, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, -H1BD, - H2AD, -H2BD, - H3AD, -H3BD,



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					O-340-A1A, - A2A, -B1A, AEIO-360-A1A, -A1B, -A1B6, - A1C, -A1D, - A1E, -A1E6, - A2A, -A2B, - A2C, -B1B, - B1D, -B1F, - B1F6, -B1G6, - B1H, -B2F, - B2F6, -B4A, - H1A, -H1B, TO- 360-A1A6D, - C1A6D, -E1A6D, -F1A6D, HIO- 360-A1A, -A1B, -B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, - G1A, HO-360- A1A, -B1A, - B1B, -C1A, TIO- 360-A1A, -A1B, -A3B6, -C1A6D, IO-360-A1A, - A1B, -A1B6, - A1B6D, -A1C, - A1D, -A1D6, - A1D6D, -A2A, - A2B, -A2C, - A3B6, -A3B6D, - A3D6D, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B1F6, -



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					B1G6, -B2E, - B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -C1G6, - D1A, -E1A, - F1A, -J1A6D, - J1AD, -K2A, - L2A, -M1A, - M1B, -N1A, - P1A, IVO-360- A1A, VO-360- A1A, -A1B, - B1A, LO-360- A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, - E2BD, LIO-360- B1G6, -C1E6, - M1A, GO-435, - C2 (O-435-17), - C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2C, - C2D, -C2E, -D1, TVO-435-A1A, - B1A (O-435- 25A), -B1B, - C1A, -D1A, - D1B, -E1A, - F1A, -G1A, - G1B, VO-435- A1A (O-435-21), -A1B (O-435-6), -A1C (O-435-23,



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					-23A, -23B, - 23C), -A1D (O- 435-6A), -A1E, - A1F, -B1A, GSO-480-A1A6, -A1C6, -A2A6, - B1A6, -B1B3, - B1B6 (O-480-1), -B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, GO-480- B1A6, , -A1A, - B, -B1, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - C3A6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G1J6, - G2D6, -G2F6, IGO-480-A1A6, -A1B6, IGSO- 480-A1A6 (O- 480-3), -A1B6, - A1C6, -A1D6, - A1E6, -A1F3, - A1F6, -A1G6, IO-540-AA1A5, - AA1B5, -



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					AB1A5, - AC1A5, -AE1A5, -AF1A5, - AG1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - C4B5D, -C4C5, - C4D5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1B5D, -K1C5, - K1D5, -K1E5, - K1E5D, -K1F5, - K1F5D, -K1G5, - K1G5D, -K1H5, - -K1J5, -K1J5D, - K1K5, -K2A5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M1B5D, -M1C5, - -M2A5D, -N1A5, - -P1A5, -R1A5, - S1A5, -T4A5D, - T4B5, -T4B5D, - T4C5D, -U1A5D, - -U1B5D, -V4A5, - -V4A5D, -W1A5, - -W1A5D, - W3A5D, AEIO-



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					540-D4A5, - D4B5, -D4C5, - D4D5, -L1B5, - L1B5D, -L1D5, IVO-540-A1A, O-540-A1A, - A1A5, -A1B5, - A1C5, -A1D, - A1D5, -A2B, - A3D5, -A4A5, - A4B5, -A4C5, - A4D5, -A4E5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1A5D, -H1B5D, -H2A5, -H2A5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J1D5D, -J2A5D, -J2B5D, -J2C5D, -J2D5D, -J3A5, - J3A5D, -J3C5D, -L3C5D, LTIO- 540-F2BD, -J2B, -J2BD, -K1AD, - N2BD, -R2AD, - U2A, -V2AD, - W2A, TIO-540- A1A, -A1B, - A1C, -A2A, -



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					A2B, -A2C, - AA1AD, - AB1AD, - AB1BD, -AE2A, -AF1A, -AF1B, - AG1A, -AH1A, - AJ1A, -AK1A, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -T2AD, - U2A, -V2AD, - W2A, VO-540- A1A, -A2A, - B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A (O-540-9), - C2B, -C2C, TIVO-540-A2A, TIGO-541-B1A, -C1A, -D1A, - D1B, -E1A, - G1AD, TIO-541- A1A, -E1A4, - E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - A1BD, -B1A, - B1B, -B1BD, -



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					C1B, -C1BD, - D1B, -D1BD, - D1C, -D1CD
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31,-B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Screw	ES10-35935- 6	Continental 10-35935-6	Identity per 14 CFR 21.303 DWG No: ES10- 35935-6 Rev: O Date: 9/11/95 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH,



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					-12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -2H, E- 165-2, -3, -4, E- 185-1, -2, -3, -5, - 8, -9, -10, -11, O- 200-A, -B, -C, E- 225-2, -4, -8, -9, IO-240-A, O- 240-A, -D, GO- 300-A, -B, -C, - D, -E, -F, O-300- A, -B, -C, -D, -E, IO-346-A, -B, IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, - D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO-



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					470-A, IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U, -2, -4, -7, -7A, -7B, - 11, -11B, -13, - 13A, -15, TSIO- 470-B, -C, -D, GTSIO-520-C, - D, -F, -H, -K, -L, -M, -N, IO-520- A, -B, -BA, -BB, -C, -CB, -D, -E, - F, -J, -K, -L, -M, -MB, LTSIO- 520-AE, TSIO- 520-AE, -AF, -B, -BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -UB, - VB, -WB, IO- 550-A, -B, -C, - D, -E, -F, -G, -L, TSIO-550A, -B, TSIOL-550-A
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, -



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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
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					B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, -



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					A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360-



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					A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, -



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					B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, -



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					L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, -



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					B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
Screw	ES10-35937- 8	Continental 10-35937-8	Identity per 14 CFR 21.303 DWG No: ES10- 35937-8 Rev: O Date: 9/11/95 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, -



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					14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-360-A, -C, -CB, -D, -DB, -ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H, -L, -M, -N, -P, - R, -S, -U, -V, O- 470-A, -B, -E, - G, -J, -K, -L, -M, -P, -2, -4, -7, -7A, -7B, -11, -11B, -



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					13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, IO-520-A, -B, -BA, -BB, -D, -E, -F, -K, -M, -MB, TSIO-520-B, - BB, -BE, -E, -EB, -VB, IO-550-A, - F, TSIO-550A, - B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2C, -E1, -E1B, -E2A, -F1, - F1B, -F2A, -G1, - G1B, -G2A, - H2C, -J2A, - K2A, -K2C, - L2A, -L2C, -M1, -M2C, -M3C, - N2A, -N2C, -P1, -P2A, -P2C, - P3C, O-290-D, - D2, -D2A, -D2B, -D2C, AEIO- 320-E1A, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O-



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					320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1D, - D2A, -D2B, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E2A, -E2B, - E2D, -E2G, - E2H, -E3D, - E3H, O-340-A1A, -A2A, -B1A, AEIO-360-A1A, -A1D, -A1E, - A2A, -B1B, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1C, - A1D, -A2A, - B1A, -B1B, - B1C, -B1D, - B4A, -C1A, -



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					K2A, IVO-360- A1A, O-360- A1A, -A1C, - A1D, -A1H, - A1N6, -A2A, - A2D, -A2E, - A2H, -A3A, - A3D, -A4A, - A4D, -A4J, -A4K, -A4M, -A4N, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, -C1E, -C1G, -C2A, - C2B, -C2C, -C2D, -C2E, -D1A, - D2A, -D2B, - F1A6, -G1A6, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -C1A, -D1B, - E1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, GO-480-B, -B1A6, -B1B, - B1C, -B1D, - C1B6, -C1D6, -



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					C2C6, -C2D6, - C2E6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1B6, - A1A6, -A1B6, - A1E6, -A1F3, - A1F6, O-480 -3, AEIO-540-D4A5, IGO-540-A1A, - A1B, -B1A, - B1B, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5,- E1A5, -K1C5, - K1D5, -N1A5, IVO-540-A1A, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, -



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					A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5 - B1D5, -B2A5, - B2B5, -B4A5, - B4B5, -D1A5, - E4A5, -E4B5, - F1A5, -F1B5, - H1A5, -H2A5, TIVO-540-A2A, VO-540-A1A, - A2A, -B1A, - B1B, -B1B3, - B1C, -B1D, - B1E, -B1F, - B2A, -B2C, - B2D, -B2E, - C1A, -C1B, - C1C3, -C2A, - C2B
Screw	AB-157158	Continental Motors P/N: 10- 157158	Test and Computations per 14 CFR 21.303 DWG No: AB-157158 Rev: B Date: 1/13/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -



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					12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -185-2, -185-3, - 185-5, -185-8, - 185-9, -185-10, - 185-11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB,



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					-F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, - M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A



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				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, O-290-D, -D2, -D2A, -D2B, -D2C, AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B, IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A, LIO-320-B1A, -C1A, O-320-A1A, -A1B, -A2A, -



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Hartzell Engine Technologies LLC
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
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					A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, -



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					C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, - K2A, IVO-360- A1A, LIO-360- A1H6, C1E6, O- 360-A1A, -A1C, -A1D, -A1F6, - A1G, -A1G6 - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, -



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					C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, -



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					G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, -



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					K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO-



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					540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B31, -B4, 6A4- 165-B3, -B4, -B6, 6V4-178-B3, - B32, -B33, 6V4- 200-32, -33, 4A- 235-B, -B3, 6A- 335-A, -B, -B1, - B1A, -6AS-335- A, -B, 6V-335- A1A, -A1B, 6VS-335-A, -A1, -B, -B1, 6A-350- C1, -C1A, -C2, - C2A, -D1, -D1A, D1B, 6V-350-A, -B



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Screw, Distr. Block	AB-102083	Continental 10-102083	Test and Computations per 14 CFR 21.303 DWG No: AB-102083 Rev: C Date: 7/25/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -185-2, -185-3, - 185-5, -185-8, - 185-9, -185-10, - 185-11, O-200-A, -B, -C, E-225-2, -



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					4, -8, -9, IO-240-A, O-240-A, -D, GO-300-A, -B, -C, -D, -E, -F, O-300-A, -B, -C, -D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB, LTSIO-360-E, -EB, -KB, TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, -LB, -MB, GIO-470-A, IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U, -2, -4, -7, -7A, -7B, -11, -11B, -13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N, IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE,



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					TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B , AEIO-320-D1B, -D2B, -E1A, -



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					E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O-



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					340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, - K2A, IVO-360- A1A, LIO-360- A1H6, C1E6, O- 360-A1A, -A1C, -A1D, -A1F6, -



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					A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, -



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					A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -B1C, IGSO-540-A1A, -A1C, -A1D, -



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					A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B 6A4-150-B3, B31, -B4, 6A4- 165-B3, -B4, -B6, 6V4-178-B3, -



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					B32, -B33, 6V4-200-32, -33, -4A-235-B, -B3, 6A-335-A, -B, -B1, -B1A, 6AS-335-A, -B, 6V-335-A1A, -A1B, 6VS-335-A, -A1, -B, -B1, 6A-350-C1, -C1A, -C2, -C2A, -D1, -D1A, -D1B, 6V-350-A, -B
Screw	AB-391213	Continental 10-391213	Test and Computations per 14 CFR 21.303 DWG No: AB-391213 Rev: D Date: 1/9/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, C75-12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, -14F, -14FH, -



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					14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -



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					U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, - M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B,



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					-K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, -



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					C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, - E3H, O-320- H1AD, -H2AD, - H3AD, O-340- A1A, -A2A, - B1A, AIO-360- A1A, -A1B, - A2A, -A2A, - A2B, -B1B, AEIO-360-A1A, -A1B, A1B6, - A1D, -A1E, - A2A, -A2B, - B1B, -B1F, - B1F6, -B1G6, - B2F, -B4A, - H1A, HIO-360- A1A, -B1A, - B1B, -C1A, - C1B, -D1A, - E1AD, -E1BD, - F1AD, HO-360- A1A, -B1A, - B1B, IO-360-



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					A1A, -A1B, - A1B6, -A1B6D, - A1C, -A1D, - A1D6, -A1D6D, - -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, -



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					A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, -



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					B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO-



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					540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, - K1F5, -K1F5D, - K1G5, -K1G5D, - -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M2A5D, -N1A5, - -N1A5D, -P1A5, - -R1A5, -S1A5, - T4A5D, -T4B5D, - -T4C5D, - U1A5D, V4A5D, - -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, -



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					A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, -



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					B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4
Screw	AB-382959	Continental 10-382959	Test and Computations per 14 CFR 21.303 DWG No: AB-382959 Rev: A Date: 12/10/87 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-320-H1AD, H2AD, H3AD, HIO-360-E1AD, E1BD, F1AD, IO-360-A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360-A1G6D, E1A6D, LTO- 360-E1A6D, O- 360-A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD,



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					E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, C1A6D, E1A6D, F1A6D, AEIO- 540-L1B5D, IO- 540-C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D, -V4A5D, - W1A5D, - W3A5D, LTIO- 540-F2BD, - J2BD, -N2BD, - R2AD, -V2AD, O-540-H1B5D, H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-F2BD, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -V2AD, - AA1AD, - AB1AD, IO-720- -A1BD, -B1BD, - C1BD, -D1BD, - D1CD



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Screw	AB-382789	Continental 10-382789	Test and Computations per 14 CFR 21.303 DWG No: AB-382789 Rev: A Date: 7/30/87 or later FAA-approved revisions	Continental Aerospace Technologies	O-200-A, -B, -C, -D, -X, IO-470- A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, - R, -S, -T, -U, -V, O-470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE, - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, - KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -



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Hartzell Engine Technologies LLC
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, -



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					D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, O- 320-H1AD, - H2AD, -H3AD , AEIO-360-A1A, -A1B, -A1B6, - A1C, -A1D, - A1E, -A1E6, - A2A, -A2B, - A2C, -B1B, - B1D, -B1F, - B1F6, -B1G6, - B1H, -B2F, - B2F6, -B4A, - H1A, -H1B, AIO-360-A1A, - A2A, -A2A, - A2B, -B1B, HIO- 360-A1A, -B1A, -B1B, -C1A, - C1B, -D1A, IO- 360-A1A, -A1B, -A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A,



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					LO-360-A1G6D, -E1A6D, LIO- 360-A1H6, C1E6, LTO-360- E1A6D, TIO- 360-A1A, -A1B, -C1A6D, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TVO-435- A1A, -B1A, - B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GSO-480-A1A6,



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					-A1C6, -A2A6, - B1A6, -B1B3, - B1B6, -B1C6, - B1E6, -B1F6, - B1G6, -B1J6, B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1A6, - A1B6, IGSO- 480-A1A6, - A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -D4C5, - D4D5, -L1B5, - L1B5D, -L1D5, IGO-540-A1A, - A1B, -B1A, - B1B, -BIC, HIO- 540-A1A, IGO- 540-A1A, -A1B, -A1C, -B1A, - B1B, -BIC, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, -



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					E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIVO-540-A2A, VO-540-A1A, - A2A-B1A, -B1B, -B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5, IGSO-540-A1A,



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					-A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, LTIO-540- F2BD, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - U2A, -V2AD, - W2A, TIO-540- A1A, -A1B, - A1C, -A2A, - A2B, -A2C, - AA1AD, - AB1AD, - AB1BD, -AE2A, -AF1A, -AF1B, - AG1A, -AH1A, - AJ1A, -AK1A, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -T2AD, - U2A, -V2AD, - W2A, TIGO-541- B1A, -C1A, - D1A, -D1B, - E1A, -G1AD, TIO-541-A1A, - E1A4, -E1B4, - E1C4, -E1D4, IO-720-A1A, - A1B, -A1BD, - B1A, -B1B, - B1BD, -C1B, - C1BD, -D1B, -



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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	AB-157160	Continental 10-157160	Test and Computations per 14 CFR 21.303 DWG No: AB-157160 Rev: A Date: 1/12/23 or later FAA-approved revisions	Continental Aerospace Technologies	D1BD, -D1C, - D1CD A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, , C-125-2, C-145-2, -145- 2H, E-165-2, - 165-3, -165-4, E- 185-1, -185-2, - 185-3, -185-5, -



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					185-8, -185-9, - 185-10, -185-11, O-200-A, -B, -C, E-225-2, -4, -8, - 9, IO-240-A, O- 240-A, -D, GO- 300-A, -B, -C, - D, -E, -F, O-300- A, -B, -C, -D, -E, IO-346-A, -B, IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, - M, -N, IO- 520-A, -B, -BA, -



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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
					BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, -



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					A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J,



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					-E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, - K2A, IVO-360-



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					A1A, LIO-360- A1H6, C1E6, O- 360-A1A, -A1C, -A1D, -A1F6, - A1G, -A1G6 - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, -



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					E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, -



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					A1C, -B1A, - B1B, -B1C, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, - -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B



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				Franklin Engines	64A4-150-B3, B31, -B4, 6A4- 165-B3, -B4, -B6, 6V4-178-B3, - B32, -B33, 6V4- 200-32, -33, 4A- 235-B, -B3, 6A- 335-A, -B, -B1, - B1A, -6AS-335- A, -B, 6V-335- A1A, -A1B, 6VS-335-A, -A1, -B, -B1, 6A-350- C1, -C1A, -C2, - C2A, -D1, -D1A, D1B, 6V-350-A, -B
Screw	AB-349652	Continental 10-349652	Test and Computations per 14 CFR 21.303 DWG No: AB-349652 Rev: H Date: 5/18/23 or later FAA-approved revisions	Continental Aerospace Technologies	O-200-A, -B, -C, IO-470-F, -J, -K, -L, -N, -S, O- 470-R, -S, -U, GTSIO-520-D, - H, -L, -N, IO- 520-A, -BA, -BB, -C, -CB, -D, -F, - J, -L, LTSIO- 520-AE, TSIO- 520-AE , -AF, - C, -CE, -D, -DB, -G, -H, -M, -N, - NB, -P, -R, -T, - UB, IO-550-B, - C, -D, -E, -L, TSIOL-550-A, -B



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				Lycoming Engines	O-235-C2B, - E2B, -F2B, - G2B, -J2B, -K2B, AIO-320-A1A, - A1B, -A2A, - A2B, -B1B, - C1B, -D1B, - D2B, IO-320- B1D, -B1E, - D1A, -D1B, - D1C, O-320- D1C, -D1F, - D2C, -D2F, - E1C, -E1F, -E1J, -E2C, -E2F, AIO- 360-A1A, -A1B, -A2A, -A2B, - B1B, -A1B, - A1B6, AEIO- 360-A2B, -B1F, - B1F6, -B1G6, - B2F, HIO-360- C1B, -D1A, IO- 360-A1B, -A1B6, -A1C, -A1D6, - A2B, -A2C, - B1E, -B1F, -B2E, -B2F, -B2F6, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1F, - D1A, -E1A, - F1A, LIO-360- A1H6, -C1E6, O- 360-A1F, -A1F6, -A1G, -A1G6, - A2F, -A2G, -



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					A4G, -C1F, TIO- 360-A1A, -A1B, TVO-435-B1B, - D1A, -C1A, - F1A, -G1A, VO- 435-B1A, IGO- 480-A1A6, IGSO-480-A1C6, -A1D6, O-480-1, -1A, AEIO-540- D4B5, HIO-540- A1A, IGO-540- A1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-D4B5, - D4C5, -E1B5, - E1C5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1E5, - K1F5, -K1G5, - K1H5, -K1J5, - K1K5, -L1A5, - L1C5, -M1A5, - P1A5, -R1A5, - S1A5, -AA1A5, LTIO-540-J2B, - U2A, -W2A, O- 540-B2C5, - E4C5, G1A5, - G2A5, TIO-540- A1A, -A1B, - A1C, -A2A, -



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					A2B, -A2C, - C1A, -E1A, - G1A, -H1A, - J2B, -U2A, - W2A, VO-540- B1H3, -C2C, TIGO-541-B1A, -D1A, -D1B, - E1A, TIO-541- A1A, -E1A4, - E1B4, -E1C4, - E1D4
Washer	AB-606505	Continental 10-606505	Test and Computations per 14 CFR 21.303 DWG No: AB-606505 Rev: B Date: 1/12/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, -



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					8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-360-A, -C, -CB, -D, -DB, -ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H, -L, -M, -N, -P, - R, -S, -U, -V, O- 470-A, -B, -E, - G, -J, -K, -L, -M, -P, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15,



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					TSIO-470-B, -C, -D, GTSIO-520- C, IO-520-A, -B, -BA, -BB, -D, -E, -F, -K, -M, -MB, TSIO-520-B, - BB, -BE, -E, -EB, -VB, IO-550-A, - F, TSIO-550A, - B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2C, -E1, -E1B, -E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A, - H2C, -J2A, - K2A, -K2C, - L2A, -L2C, -M1, -M2C, -M3C, - N2A, -N2C, -P1, -P2A, -P2C, - P3C, O-290-D, - D2, -D2A, -D2B, -D2C, AEIO- 320-E1A, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B,



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					-A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1D, - D2A, -D2B, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E2A, -E2B, - E2D, -E2G, - E2H, -E3D, - E3H, O-340- A1A, -A2A, - B1A, AEIO-360- A1A, -A1D, - A1E, -A2A, - B1B, -B4A, - H1A, HIO-360- A1A, -B1A, - B1B, -C1A, HO- 360-A1A, -B1A, -B1B, IO-360- A1A, -A1C, - A1D, -A2A, - B1A, -B1B, - B1C, -B1D, - B4A, -C1A, - K2A, IVO-360-



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					A1A, O-360- A1A, -A1C, - A1D, -A1H, - A1N6, -A2A, - A2D, -A2E, - A2H, -A3A, - A3D, -A4A, - A4D, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, VO-360- A1A, -A1B, - B1A, GO-435- C2A, C2A2, - C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, - -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, - -C1A, -D1B, - E1A, -G1B, VO- 435-A1B, -A1C, - -A1D, -A1E, - A1F, GO-480-B, - -B1A6, -B1B, - B1C, -B1D, -



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					C1B6, -C1D6, - C2C6, -C2D6, - C2E6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1B6, IGSO-480-A1A6, -A1B6, -A1E6, - A1F3, -A1F6, O- 480 -3, AEIO- 540-D4A5, IGO- 540-A1A, -A1B, -B1A, -B1B, - BIC, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -E1A5, - K1C5, -K1D5, - N1A5, IVO-540- A1A, O-540-9, - 9A, -A1A, - A1A5, -A1B5, -



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					A1C5, -A1D, - A1D5, -A2B, - A3D5, -A4A5, - A4B5, -A4C5, - A4D5, -B1A5, - B1B5, -B1D5, - B2A5, -B2B5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -F1A5, - F1B5, -H1A5, - H2A5, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B2A, - B2C, -B2D, - B2E, -C1A, - C1B, -C1C3, - C2A, -C2B
Washer	AB-349511	Continental 10-349511	Test and Computations per 14 CFR 21.303 DWG No: AB-349511 Rev: C Date: 12/22/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-80-5J, -8, -8J, -9, -9J, A-75-3, -8, -8F, - 8J, -8FJ, -9, -9J, A-80-5J, -8, -8J, -



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					9, -9J, C75-12, - 12B, -12BF, - 12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - E, -EB, -KB, - RB, GIO-470-A, IO-470-A, -C, -D,



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					-E, -F, -G, -H, -J, -K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -



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					C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, -



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Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360-



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					A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, -



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					D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, -



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					A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, -



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					K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, - IVO-540-A1A, - LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, -



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					B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, C1, C2, C1L .



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Washer	AB-14268	Continental 10-14268	Test and Computations per 14 CFR 21.303 DWG No: AB-14268 Rev: D Date: 12/23/22 or later FAA-approved revisions	Lycoming Engines	O-320- A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, H2AD, H3AD, HIO-360- A1A, -B1A, - B1B, -C1A, - C1B, -D1A, E1AD, E1BD, F1AD, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, -



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					B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360- A1G6D, E1A6D, LTO-360- E1A6D, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, A1AD, A1F6D, A1G6D,



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					A1LD, A3AD, A4AD, A5AD, E1A6D, TIO- 360- A1A, -A1B, C1A6D, TO-360- A1A6D, C1A6D, E1A6D, F1A6D, AEIO-540- L1B5D, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5, C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D,



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					V4A5D, W1A5D, W3A5D, LTIO- 540-F2BD, -J2B, J2BD, N2BD, R2AD, V2AD, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, H1B5D, H2B5D, J1A5D, J1B5D, J1C5D, J2A5D, J2B5D, J2C5D, J3A5D, J3C5D, L3C5D, TIO- 540- A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - G1A, -H1A, - J2B, -U2A, - W2A, -AE2A, F2BD, J2BD, K1AD, N2BD,



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					R2AD, S1AD, V2AD, AA1AD, AB1AD, VO-540-A1A, -A2A-B1A, -B1B, -B1B3, -B1C, -B1D, -B1E, -B1F, -B1H3, -B2A, -B2C, -B2D, -B2E, -B2G, -C1A, -C1B, -C1C3, -C2A, -C2B, -C2C, IO-720-A1A, -A1B, -B1A, -B1B, -C1B, A1BD, B1BD, C1BD, D1BD, D1CD
Washer	AB-55501	Continental 10-55501	Test and Computations per 14 CFR 21.303 DWG No: AB-55501 Rev: C Date: 12/21/22 or later FAA-approved revisions	Continental Aerospace Technologies	O-200-A, -B, -C, -D, -X, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, O-470-11, -11B, -11B-CI, -11-CI, -13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U, GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -



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					N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE, - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, - KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, -



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					A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, -



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					E2D, -E2F, -E2G, -E2H, -E3D, - E3H, -H1AD, - H2AD, -H3AD , AEIO-360-A1A, -A1B, -A1B6, - A1C, -A1D, - A1E, -A1E6, - A2A, -A2B, - A2C, -B1B, - B1D, -B1F, - B1F6, -B1G6, - B1H, -B2F, - B2F6, -B4A, - H1A, -H1B, AIO-360-A1A, - A2A, -A2A, - A2B, -B1B, HIO- 360-A1A, -B1A, -B1B, -C1A, - C1B, -D1A, IO- 360-A1A, -A1B, -A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, LIO-360-A1H6, C1E6, TIO-360-



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Hartzell Engine Technologies LLC
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
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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
					A1A, -A1B, - C1A6D, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TVO-435- A1A, -B1A, - B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GSO-480-A1A6, -A1C6, -A2A6, - B1A6, -B1B3, - B1B6, -B1C6, - B1E6, -B1F6, - B1G6, -B1J6,



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					B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1A6, - A1B6, IGSO- 480-A1A6, - A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -D4C5, - D4D5, -L1B5, - L1B5D, -L1D5, HIO-540-A1A, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIVO-540-A2A, VO-540-A1A, - A2A-B1A, -B1B, -B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, -



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					B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, - IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, LTIO-540- F2BD, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - U2A, -V2AD, - W2A, TIO-540- A1A, -A1B, - A1C, -A2A, -



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					A2B, -A2C, - AA1AD, - AB1AD, - AB1BD, -AE2A, -AF1A, -AF1B, - AG1A, -AH1A, - AJ1A, -AK1A, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -T2AD, - U2A, -V2AD, - W2A, TIGO-541- B1A, -C1A, - D1A, -D1B, - E1A, -G1AD, TIO-541-A1A, - E1A4, -E1B4, - E1C4, -E1D4, IO-720-A1A, - A1B, -A1BD, - B1A, -B1B, - B1BD, -C1B, - C1BD, -D1B, - D1BD, -D1C, - D1CD
Washer, Flat	AB-53397	Continental 10-53397	Test and Computations per 14 CFR 21.303 DWG No: AB-53397 Rev: C Date: 12/22/22 or later FAA-approved revisions	Lycoming Engines	O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, -



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					B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, H2AD, H3AD, HIO-360- A1A, -B1A, - B1B, -C1A, - C1B, -D1A, - E1AD, E1BD, F1AD, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, -



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					E1A, -F1A, -K2A, -A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360-A1G6D, E1A6D, LTO- 360-E1A6D, O- 360- A1A, -A1C, -A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD, E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, C1A6D, E1A6D, F1A6D, AEIO- 540- D4A5, -



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					D4B5, -D4C5, - D4D5, -L1B5, - L1D5, -L1B5D, IO-540- A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -D4C5, - E1A5, -E1B5, - E1C5, -G1A5, - G1B5, -G1C5, - G1D5, -G1E5, - G1F5, -J4A5, - K1A5, -K1B5, - K1C5, -K1D5, - K1E5, -K1F5, - K1J5, -K1G5, - K1H5, -K1J5, - K1K5, -L1A5, - L1C5, -M1A5, - N1A5, -P1A5, - R1A5, S1A5, - AA1A5, - C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D, V4A5D, W1A5D, W3A5D, O-540- 9, -9A, -A1A, - A1A5, -A1B5, -



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					A1C5, -A1D, - A1D5, -A2B, - A3D5, -A4A5, - A4B5, -A4C5, - A4D5, -B1A5, - B1B5, -B1D5, - B2A5, -B2B5, - B2C5, -B4A5, - B4B5, -D1A5, - E4A5, -E4B5, - E4C5, -F1A5, - F1B5, -G1A5, - G2A5, -H1A5, - H2A5, H1B5D, H2B5D, J1A5D, J1B5D, J1C5D, J2A5D, J2B5D, J2C5D, J3A5D, J3C5D, L3C5D, TIO-540- A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -AB1AD, - AB1BD, -AE2A, -AF1A, -AF1B, - AG1A, -AH1A, - AJ1A, -AK1A, - C1A, -E1A, - G1A, -H1A, - J2B, -T2AD, - U2A, -W2A, F2BD, J2BD, K1AD, N2BD, R2AD, S1AD, V2AD, AA1AD, VO-540-A1A, - A2A-B1A, -B1B,



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					-B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, -C2C
Washer	AB-382788	Continental 10-382788	Test and Computations per 14 CFR 21.303 DWG No: AB-382788 Rev: C Date: 1/21/21 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-320-H1AD, - H2AD, -H3AD, HIO-360-E1AD, -E1BD, -F1AD, IO-360-A1B6D, - A1D6D, - A3B6D, -C1E6D, -J1A6D, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1AD, - A1F6D, -A1G6D, -A1LD, -A3AD, - A4AD, -A5AD, - E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, - C1A6D, -E1A6D, F1A6D, AEIO-



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					540-L1B5D, IO- 540-C4D5D, - K1A5D, - K1E5D, -K1F5D, -K1G5D, - K1J5D, -L1A5D, -L1B5D, - M1B5D, - M2A5D, - N1A5D, - T4A5D, -T4B5D, -T4C5D, - U1A5D, - V4A5D, - W1A5D, - W3A5D, LTIO- 540-F2BD, - J2BD, -N2BD, - R2AD, -V2AD, O-540-H1B5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-F2BD, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -V2AD, - AA1AD, - AB1AD, IO-720- A1BD, -B1BD, - C1BD, -D1BD, - D1CD



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Washer	AB-391309	Continental 10-391309	Test and Computations per 14 CFR 21.303 DWG No: AB-391309 Rev: A Date: 12/19/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, C75-12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F, -8, -8F, -8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, C-125-2, C-145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, -10, -11, O-200-A, -B, -C, E-225-2, -4, -8, -9, IO-240-A, O-240-A, -D,



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					GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, -



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					BE, -C, -CE, -D, -DB, -E, -EB, - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, -



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					E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, -



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					E3H, H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, - A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, -



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					E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D,



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					-C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, -



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					B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, -



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					K1F5, -K1F5D, - K1G5, -K1G5D, - -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M2A5D, -N1A5, - -N1A5D, -P1A5, - -R1A5, -S1A5, - T4A5D, -T4B5D, - -T4C5D, - U1A5D, V4A5D, - -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, -



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					H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720 – A1A, -A1B, -



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					A1BD, -B1A, - B1B, -B1BD, - C1B
Ball Bearing	AB-400623	Continental 10-400567, 10-353056, 10-400623	Test and Computations per 14 CFR 21.303 DWG No: AB-400623 Rev: D Date: 12/21/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -1, -2, -3, -4, -4J, -5, -5J, -6, -6J, -7, -7J, -8, - 8J, -9, -9J, A-65- 1, -12, -12F, - 12FJ, -12J, -14, - 14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A- 80-5J, -8, -8J, -9, -9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, A-80-5J, -8, - 8J, -9, -9J, C75- 12, -12B, -12BF, -12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, -



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					14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - E, -EB, -KB, - RB, GIO-470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P,



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					LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B,



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					-D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, -



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					E3D, -E3H, H1AD, H2AD, H3AD, O-340- A1A, -A2A, - B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, E1AD, E1BD, F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, A1B6D, A1D6D,



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					A3B6D, C1E6D, J1A6D, LO-360- A1G6D, E1A6D, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, E1A6D, LTO-360-E1A6D O-360-A1A, - A1C, -A1D, - A1F6, -A1G, - A1G6, -A1H, - A1N6, -A2A, - A2D, -A2E, - A2F, -A2G, - A2H, -A3A, - A3D, -A4A, - A4D, -A4G, - A4J, -A4K, - A4M, -A4N, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, -A1AD, - A1F6D, -A1G6D, -A1LD, -A3AD, - A4AD, -A5AD, - E1A6D, TIO- 360-A1A, -A1B, -C1A6D, TO- 360-A1A6D, -



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					C1A6D, -E1A6D, -F1A6D, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, -



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					B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - B1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -D4C5, - E1A5, -E1B5, - E1C5, -G1A5, - G1B5, -G1C5, - G1D5, -G1E5, - G1F5, -J4A5, - K1A5, -K1B5, - K1C5, -K1D5, - K1E5, -K1F5, - K1J5, -K1G5, -



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					K1H5, -K1J5, - K1K5, -L1A5, - L1C5, -M1A5, - N1A5, -P1A5, - R1A5, S1A5, - AA1A5, - C4D5D, - K1A5D, - K1E5D, -K1F5D, -K1G5D, - K1J5D, -L1A5D, -L1B5D, - M1B5D, - M2A5D, - N1A5D, - T4A5D, -T4B5D, -T4C5D, - U1A5D, - V4A5D, - W1A5D, - W3A5D, IVO- 540-A1A, LTIO- 540-J2B, -U2A, - W2A, -F2BD, - J2BD, -N2BD, - R2AD, -V2AD, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, -



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					D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - H1B5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, -F2BD, - J2BD, -K1AD, - N2BD, -R2AD, S1AD, -V2AD, - AA1AD, - AB1AD, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, -



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					D1B, -E1A, TIO-541-A1A, -E1A4, -E1B4, -E1C4, -E1D4, IO-720-A1A, -A1B, -B1A, -B1B, -C1B, -A1BD, -B1BD, -C1BD, -D1BD, -D1CD
				Franklin Engines	6A4-150-B3, -B4, -B31, 6A4-165-B4, -B3, -B6, 6V4-178-B33, -B31, -B3, -B32, 6V4-200 -C32, -C33, 4A-235-B, -B2, -B31, -B6, -B3, -B4, 6A-335-A, -B, 6AS-335-A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, -A2A, -C1R, -C1, -C2, -C1L
Bearing	AB-382971	Continental 10-382971	Test and Computations per 14 CFR 21.303 DWG No: AB-382971 Rev: F Date: 6/1/07 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, -CA, 6-320-B
				Lycoming Engines	O-320-H1AD, H2AD, H3AD,



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					HIO-360-E1AD, E1BD, F1AD, IO-360-A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360-A1G6D, E1A6D, LTO- 360-E1A6D, O- 360-A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD, E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, C1A6D, E1A6D, F1A6D, AEIO- 540-L1B5D, IO- 540-C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D, V4A5D, W1A5D, W3A5D, LTIO- 540-F2BD, J2BD, N2BD, R2AD, V2AD, O-540-H1B5D, H2B5D, J1A5D, J1B5D, J1C5D, J2A5D, J2B5D, J2C5D, J3A5D,



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					J3C5D, L3C5D, TIO-540-F2BD, J2BD, K1AD, N2BD, R2AD, S1AD, V2AD, AA1AD, AB1AD, IO-720-A1BD, B1BD, C1BD, D1BD, D1CD
Gear	AB-357584	Continental 10-357584	Test and Computations per 14 CFR 21.303 DWG No: AB-357584 Rev: D Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, C75-12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F, -8, -8F, -8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, O-200-A, -B, -C, IO-240-A, O-



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					240-A, -D, IO- 346-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, C2A, -C2C, -E1, -E1B, -E2A, - E2B, -F1, -F1B, - F2A, -G1, -G1B, -G2A, -H2C, - J2A, -K2A, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AEIO-320- E1A, -E1B, - E2A, -E2B, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, -



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					A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1F, - D1D, -D2A, - D2B, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E2A, - E2B, -E2D, - E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AEIO- 360-A1A, -A1D, -A1E, -B1B, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1D, - B1A, -B1B, - B1C, -B1D, - B4A, -K2A, IVO-360-A1A, O-360-A1A, - A1C, -A1D, - A1G, -A1G6, -



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					A1H, -A1N6, - A2A, -A2D, - A2E, -A2H, - A3A, -A3D, - A3D, -A4A, - A4D, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, F1A6, G1A6, VO-360- A1A, -A1B, - B1A
Gear	AB-357586	Continental 10-357586	Test and Computations per 14 CFR 21.303 DWG No: AB-357586 Rev: E Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	C-125-2, C-145-, -2H, E-165-2, -3, -4, E-185-1, -2, - 3, -5, -8, -9, -10, - 11, E-225-2, -4, - 8, -9, GO-300-A, -B, -C, -D, -E, -F, O-300-A, -B, -C, -D, -E, IO-360-A, -C, -CB, -D, -DB, -ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB,



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					-F, -FB, -GB, -H, -HB, -JB, -KB, -LB, -MB, GIO-470-A, IO-470-C, -D, -E, -F, -G, -H, -L, -M, -N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -2, -4, -7, -7A, -7B, -11, -11B, 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520-C, IO-520-A, -B, -BA, -BB, -D, -E, -F, -K, -M, -MB, TSIO-520-B, -BB, -BE, -E, -EB, -VB, IO-550-A, -F, -G, TSIO-550-A, -B
				Lycoming Engines	GO-435-C2A, -C2A2, -C2B, -C2B1, -C2B2, -C2B26, -C2E, -D1, O-435-6, -6A, -23, -23A, -23B, -25, -25A, -A, -A2, -C, -C1, -C2, -K1, TVO-435-A1A, -B1A, -C1A, -D1B, -E1A, -G1B, VO-435-A1B, -A1C, -A1D, -A1E, -



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					A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -B1C, - B1D, -B1D, - C1B6, -C1D6, - C2C6, -C2D6, - C2E6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1B6, IGSO-480-A1A6, -A1B6, -A1E6, - A1F3, -A1F6, O- 480-3, AEIO- 540-D4A5, IGO- 540-A1A, -A1B, -B1A, -B1B, - B1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, -



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					B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -E1A5, - G1A5, -K1C5, - K1D5, -N1A5, IVO-540-A1A, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B2A5, -B2B5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -F1A5, - F1B5, -H1A5, - H2A5, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B2A, - B2C, -B2D, - B2E, -C1A, - C1B, -C1C3, - C2A, -C2B
Gear	AB-682014	Continental 10-682014	Test and Computations per 14 CFR 21.303 DWG No: AB-682014 Rev: 0	Lycoming Engines	O-320-H1AD, - H2AD, -H3AD, HIO-360-E1AD, -E1BD, -F1AD,



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			Date: 8/8/94 or later FAA-approved revisions		IO-360-A1B6D, A1D6D, - A3B6D, -C1E6D, -J1A6D, LO-360- A1G6D, -1A6D, LTO-360- E1A6D, O-360- A1AD, -A1F6D, -A1G6D, -A1LD, -A3AD, -A4AD, -A5AD, -E1A6D, TIO-360-C1A6D, TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D
Magneto Gear Assembly	AB-682016	Continental 10-682016	Test and Computations per 14 CFR 21.303 DWG No: AB-682016 Rev: B Date: 8/23/23 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	AEIO-540- L1B5D, IO-540- C4D5D, K1A5D, K1E5D, -K1F5D, -K1G5D, - K1J5D, -L1A5D, -L1B5D, - M1B5D, - N1A5D, - T4A5D, -T4B5D, -T4C5D, - U1A5D, - V4A5D, -



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					W1A5D, - W3A5D, LTIO- 540-F2BD, - J2BD, -N2BD, - R2BD, V2AD, O-540-H1B5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-F2BD, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -V2AD, - AA1AD, - AB1AD
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, C2A, -C2C, -E1, -E1B, -E2A, - E2B, -F1, -F1B, - F2A, -G1, -G1B, -G2A, -H2C, - J2A, -K2A, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AEIO-320- E1A, -E1B, - E2A, -E2B, IO- 320-A1A, -A2A,



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					-B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1F, - D1D, -D2A, - D2B, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E2A, - E2B, -E2D, - E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AEIO- 360-A1A, -A1D, -A1E, -B1B, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, HO-360-



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Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
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					A1A, -B1A, - B1B, IO-360- A1A, -A1D, - B1A, -B1B, - B1C, -B1D, - B4A, -K2A, IVO-360-A1A, O-360-A1A, - A1C, -A1D, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2H, - A3A, -A3D, - A3D, -A4A, - A4D, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, F1A6, G1A6, VO-360- A1A, -A1B, - B1A
Distributor Block	AB-357426	Continental 10-357426	Test and Computations per 14 CFR 21.303 DWG No: AB-357426 Rev: G Date: 3/16/23 or later FAA-approved revisions	Continental Aerospace Technologies	C-125-2, C-145-, -2H, E-165-2, -3, -4, E-185-1, -2, - 3, -5, -8, -9, -10, - 11, E-225-2, -4, - 8, -9, O-300-A, - B, -C, -D, -E, IO-



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					360-A, -C, -CB, - D, -DB, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB, LTSIO-360-E, - EB, -KB, TSIO- 360-A, -AB, -B, - C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, - JB, -KB, -LB, - MB, GIO-470-A, IO-470-C, -D, -E, -F, -G, -H, -L, - M, -N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -2, -4, -7, -7A, -7B, - 11, -11B, 13, - 13A, -15, TSIO- 470-B, -C, -D, GTSIO-520-C, IO-520-A, -B, - BA, -BB, -D, -E, -F, -K, -M, -MB, TSIO-520-B, - BB, -BE, -E, -EB, -VB, IO-550-A, - F, -G
				Lycoming Engines	GO-435-C2A, - C2A2, -C2B, - C2B1, -C2B2, - C2B26, -C2E, - D1, O-435-6, - 6A, -23, -23A, -



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					23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -C1A, -D1B, - E1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -B1C, - B1D, -B1D, - C1B6, -C1D6, - C2C6, -C2D6, - C2E6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B2C6, -B2D6, - B2G6, -B2H6, IGO-480-A1B6, IGSO-480-A1A6, -A1B6, -A1E6, - A1F3, -A1F6, O- 480-3, AEIO- 540-D4A5, IO-



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					540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -E1A5, - G1A5, -K1C5, - K1D5, -N1A5, - O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B2A5, -B2B5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -F1A5, - F1B5, -H1A5, - H2A5, TIVO- 540-A2A, VO- 540-A1A, -A2A, - -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B2A, - B2C, -B2D, - B2E, -C1A, - C1B, -C1C3, - C2A, -C2B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, -



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					B31,-B3, -B32, 6V4-200 -C32, - C33, 6A-335-A, - B, 6AS-335-A, - B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Distributor Block	AB-357424	Continental 10-357424	Test and Computations per 14 CFR 21.303 DWG No: AB-357424 Rev: G Date: 3/16/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -1, -2, -3, -4, -4J, -5, -5J, -6, -6J, -7, -7J, -8, - 8J, -9, -9J, A-65- 1, -12, -12F, - 12FJ, -12J, -14, - 14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A- 75-3, -8, -8F, -8J, -8FJ, -9, -9J, A- 80-5J, -8, -8J, -9, -9J, C75-12, - 12B, -12BF, - 12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, -



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					12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, O-200-A, - B, -C, -D, -X
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, C2A, -C2C, -E1, -E1B, -E2A, - E2B, -F1, -F1B, - F2A, -G1, -G1B, -G2A, -H2C, - J2A, -K2A, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AEIO-320- E1A, -E1B, - E2A, -E2B, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, -



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					E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1F, - D1D, -D2A, - D2B, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E2A, - E2B, -E2D, - E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AEIO- 360-A1A, -A1D, -A1E, -B1B, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1D, - B1A, -B1B, -



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					B1C, -B1D, - B4A, -K2A, IVO-360-A1A, - O-360-A1A, - A1C, -A1D, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2H, - A3A, -A3D, - A3D, -A4A, - A4D, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, F1A6, G1A6, VO-360- A1A, -A1B, - B1A
				Franklin Engines	4A-235-B, -B2, - B31, -B6, -B3, - B4,
Ignition Contact Assembly	AB-382622	Continental 10-382622	Test and Computations per 14 CFR 21.303 DWG No: 382622 Rev: D Date: 8/11/22 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, - CA, 6-320-B



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				Lycoming Engines	O-320-H1AD, H2AD, H3AD, HIO-360-E1AD, E1BD, F1AD, IO-360-A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360-A1G6D, E1A6D, LTO- 360-E1A6D, O- 360-A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD, E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, C1A6D, E1A6D, F1A6D, AEIO- 540-L1B5D, IO- 540-C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D, V4A5D, W1A5D, W3A5D, LTIO- 540-F2BD, J2BD, N2BD, R2AD, V2AD, O-540-H1B5D, H2B5D, J1A5D, J1B5D, J1C5D,



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					J2A5D, J2B5D, J2C5D, J3A5D, J3C5D, L3C5D, TIO-540-F2BD, J2BD, K1AD, N2BD, R2AD, S1AD, V2AD, AA1AD, AB1AD, IO-720- A1BD, B1BD, C1BD, D1BD, D1CD
Ignition Contact Assembly	AB-357174	Continental 10-357174	Test and Computations per 14 CFR 21.303 DWG No: 357174 Rev: D Date: 8/12/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J A-80-5J, - 8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, -



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					8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, - LO, -M, -N, -P, - R, -S, -T, -U, -V,



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					-VO, O-470-11, - 11B, -11B-CI, - 11-CI, -13, -13A, -15, -2, -4, -A, - B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U, GTSIO-520-C, - D, -E, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, - NB, -P, LTSIO- 520-AE, TSIO- 520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B,



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					-G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, -



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					B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, -



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO-



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					360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6,- G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, -



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					B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, -



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					M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, -



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					B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31,-B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, -A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Ignition Contact Assembly	AB-357173	Continental 10-357173	Test and Computations per 14 CFR 21.303 DWG No: 357173 Rev: D Date: 8/12/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6,



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					-6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, - 8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1. -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E,



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					LTSIO-360-E, - EB, -KB, -RB, - E, -EB, -KB, - RB, GIO-470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L,



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					-N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO-



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					320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, -



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					B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, -



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					B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, -



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					G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, -



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					U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200-C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Ignition Contact Assembly	AB-382585	Continental 10-382585	Test and Computations per 14 CFR 21.303 DWG No: 382585 Rev: D Date: 8/11/22 or later FAA-approved revisions	Continental Aerospace Technologies	A2A, -C1R, -C1, -C2, -C1L A-50-1, -2, -3, -4, -4J, -5, -5J, -6, -6J, -7, -7J, -8, -8J, -9, -9J, - A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, -8, -8J, -9, -9J, C75-12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F, -8, -8F, -8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F, -8F, -8FJ, C-125-1. -2,



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					C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, - LO, -M, -N, -P, - R, -S, -T, -U, -V, -VO, O-470-11, - 11B, -11B-CI, - 11-CI, -13, -13A, -15, -2, -4, -A, - B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M, -CI, -N, - P, -R, -S, -T, -U, GTSIO-520-C, -



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					D, -E, -F, -H, -K, -L, -M, -N, IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, O-290-D, -D2, -



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



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					D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,-



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					C1F, -D1A, - E1A, -F1A, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO-



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					435-A1A, -B1A, - -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, - -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, - IGSO-480-A1A6, - -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5,



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					-D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5, IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, -



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					A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, - -E1B4, -E1C4, - E1D4, IO-720-



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					A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, -A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Ignition Contact Assembly	AB-382584	Continental 10-382584	Test and Computations per 14 CFR 21.303 DWG No: 382584 Rev: D Date: 8/10/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, - 8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, -



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					12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H,



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					-HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, - LO, -M, -N, -P, - R, -S, -T, -U, -V, -VO, O-470-11, - 11B, -11B-CI, - 11-CI, -13, -13A, -15, -2, -4, -A, - B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U, GTSIO-520-C, - D, -E, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, - NB, -P, LTSIO- 520-AE, TSIO- 520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B



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				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, O-290-D, -D2, -D2A, -D2B, -D2C, AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B, IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A, LIO-320-B1A, -C1A, O-320-A1A, -A1B, -A2A, -



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					A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, -



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Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

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					C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, -



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					C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, -



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					G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, -



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					K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, - IVO-540-A1A, - LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO-



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					540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L



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Fish Paper	AB-382568	Continental 10-382568	Test and Computations per 14 CFR 21.303 DWG No: AB-382568 Rev: B Date: 5/20/96 or later FAA-approved revisions	Continental Aerospace Technologies	6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-320-H1AD, H2AD, H3AD, HIO-360-E1AD, E1BD, F1AD, IO-360-A1B6D, A1D6D, A3B6D, C1E6D, J1A6D, LO-360-A1G6D, E1A6D, LTO- 360-E1A6D, O- 360-A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD, E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, C1A6D, E1A6D, F1A6D, AEIO- 540-L1B5D, IO- 540-C4D5D, K1A5D, K1E5D, K1F5D, K1G5D, K1J5D, L1A5D, L1B5D, M1B5D, M2A5D, N1A5D, T4A5D, T4B5D, T4C5D, U1A5D, V4A5D,



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					W1A5D, W3A5D, LTIO- 540-F2BD, J2BD, N2BD, R2AD, V2AD, O-540-H1B5D, H2B5D, J1A5D, J1B5D, J1C5D, J2A5D, J2B5D, J2C5D, J3A5D, J3C5D, L3C5D, TIO-540-F2BD, J2BD, K1AD, N2BD, R2AD, S1AD, V2AD, AA1AD, AB1AD, IO-720- A1BD, B1BD, C1BD, D1BD, D1CD
Fish Paper	AB-349326	Continental 10-349326	Test and Computations per 14 CFR 21.303 DWG No: AB-349326 Rev: B Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-80-5J, -8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8,



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					-8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, GIO-470-A, IO- 470-A, -C, -D, - E, -F, -G, -H, -J, - K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2,



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					-4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B,



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					-K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, -



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					B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, -



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					C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, - -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, - -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, - -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480-



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					A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, S1A5, -AA1A5,



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					IVO-540-A1A, LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, -



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					C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200-C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Felt Washer	AB-50752	Continental 10-50752	Test and Computations per 14 CFR 21.303 DWG No: AB-50752 Rev: C Date: 1/20/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, - 12B, -12BF, -



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					12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360-



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					E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO-



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					550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, -



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					E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, - E3H, -H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, - A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B,



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					A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, -



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					A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A,



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					-23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, -



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					A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, - K1F5, -K1F5D, - K1G5, -K1G5D, -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, -M2A5D, -N1A5, -N1A5D, -P1A5,



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					-R1A5, -S1A5, - T4A5D, -T4B5D, -T4C5D, - U1A5D, V4A5D, -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, -



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					C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4
Felt Strip	AB-163374	Continental 10-163374	Test and Computations per 14 CFR 21.303 DWG No: AB-163374 Rev: B Date: 12/22/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -



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					12B, -12BF, - 12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, -



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					KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F,



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Hartzell Engine Technologies LLC
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					-G, -L, TSIO-550A, -B, TSIOL-550-A, -B, 6-285-B, -C, -CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, O-290-D, -D2, -D2A, -D2B, -D2C, AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B, IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -



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					B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, - E3H, -H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, -



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					A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360-



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					A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, -A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-A1A6D, - C1A6D, -E1A6D, -F1A6D, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, -



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					C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480-



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					A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, - K1F5, -K1F5D, - K1G5, -K1G5D, -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, -



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					L1B5D, -L1C5, - M1A5, -M1A5D, -M2A5D, -N1A5, -N1A5D, -P1A5, -R1A5, -S1A5, - T4A5D, -T4B5D, -T4C5D, - U1A5D, V4A5D, -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D,



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					-L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - A1BD, -B1A, - B1B, -B1BD, - C1B



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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
Lubricant	AB-86527	Continental 10-86527	Test and Computations per 14 CFR 21.303 DWG No: AB-86527 Rev: 0 Date: 3/27/89 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, - 12B, -12BF, - 12BFH, -12F, - 12FH, -12FHJ, - 12FJ, -12J, -15, - 15F, -8, -8F, - 8FH, -8FHJ, - 8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240-



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					A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, - M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE, -



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					AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB, - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B,



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					-D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G,



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					-E2H, -E3D, - E3H, -H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, - A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, -



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					C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D,



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

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					TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, -



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					B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - B1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, -



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					K1E5, -K1E5D, - K1F5, -K1F5D, - K1G5, -K1G5D, - -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M2A5D, -N1A5, - -N1A5D, -P1A5, - -R1A5, -S1A5, - T4A5D, -T4B5D, - -T4C5D, - U1A5D, V4A5D, - -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, -



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					H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4



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Woodruff Key	AB-90788-5	Continental 10-90788-5	Test and Computations per 14 CFR 21.303 DWG No: AB-90788-5 Rev: B Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D,



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					GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, - U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, -M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, -



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					BE, -C, -CE, -D, -DB, -E, -EB, - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, -



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					E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, -



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					E3H, -H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, - A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, -



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					E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D,



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					-C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, -



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					B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, -



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					K1F5, -K1F5D, - K1G5, -K1G5D, - -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M2A5D, -N1A5, - -N1A5D, -P1A5, - -R1A5, -S1A5, - T4A5D, -T4B5D, - -T4C5D, - U1A5D, V4A5D, - -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, -



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					H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cotter Pin	AB-90751-19	Continental 10-90751-19	Test and Computations per 14 CFR 21.303 DWG No: AB-90751-19 Rev: D Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, - 8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1. -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3,



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					-4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - E, -EB, -KB, - RB, GIO-470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E,



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					-EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, -



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					B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, O- 340-A1A, -A2A, -B1A, AIO-360- A1A, -A2A, - A2A, -A2B, -



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					B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, -



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					A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, TIO-360- A1A, -A1B, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, -



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					C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, HIO-540- A1A, IGO-540- A1A, -A1B, - A1C, -B1A, - B1B, -B1C, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, - A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, -



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					B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1B5, -K1C5, - K1D5, -K1E5, - K1F5, -K1J5, - K1G5, -K1H5, - K1J5, -K1K5, - L1A5, -L1C5, - M1A5, -N1A5, - P1A5, -R1A5, - S1A5, -AA1A5, - IVO-540-A1A, - LTIO-540-J2B, - U2A, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, -



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					H1A5, -H2A5, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32



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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
Cotter Pin	AB-90751-18	Continental 10-90751-18	Test and Computations per 14 CFR 21.303 DWG No: AB-90751-18 Rev: E Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	O-200-A, -B, -C, -D, -X, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO, O-470-11, -11B, -11B-CI, -11-CI, -13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U, GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N, IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B



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				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, O-290-D, -D2, -D2A, -D2B, -D2C, AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B, -D1B, -D2B, AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B, IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A, LIO-320-B1A, -C1A, O-320-A1A, -



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					A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, -H2AD, - H3AD, AIO-360- A1A, -A1B, - A2A, -A2B, - B1B, -A1B, - A1B6, AEIO- 360-A2B, -B1F, - B1F6, -B1G6, - B2F, HIO-360- A1A, -B1A, - B1B, -C1A, - C1B, -D1A, - E1AD, -E1BD, -



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					F1AD, HO-360- A1A, -B1A, - B1B, IO-360- A1A, -A1B, - A1B6, -A1B6D, - A1C, -A1D, - A1D6, -A1D6D, - -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, - -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, - IVO-360-A1A, - LIO-360-A1H6, - C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6, - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, -



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					A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D, TVO-435-B1B, - D1A, -C1A, - F1A, -G1A, VO- 435-B1A, IGO- 480-A1A6, IGSO-480-A1C6, -A1D6, O-480-1, -1A, AEIO-540- D4A5, -D4B5, - L1B5D, HIO- 540-A1A, IGO- 540-A1A, -A1B, -A1C, -B1A, - B1B, -BIC, IGSO-540-A1A, -A1C, -A1D, - A1E, -A1F, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					A1H, -B1A, - B1C, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - C4D5D, -D4A5, - D4B5, -D4C5, - E1A5, -E1B5, - E1C5, -G1A5, - G1B5, -G1C5, - G1D5, -G1E5, - G1F5, -J4A5, - K1A5, -K1A5D, -K1B5, -K1C5, - K1D5, -K1E5, - K1E5D, -K1F5, - K1F5D, -K1G5, - K1G5D, -K1H5, -K1J5, -K1J5D, - K1K5, -L1A5, - L1A5D, -L1B5D, -L1C5, -M1A5, - M1A5D, - M2A5D, -N1A5, -N1A5D, -P1A5, -R1A5, -S1A5, - T4A5D, -T4B5D, -T4C5D, - U1A5D, V4A5D, -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, -



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					V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, VO-540- B1H3, -C2C,



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					TIGO-541-B1A, -D1A, -D1B, - E1A, TIO-541- A1A, -E1A4, - E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - A1BD, -B1A, - B1B, -B1BD, - C1B
Retainer Ring	AB-92815- 62	Continental 10-92815-62	Test and Computations per 14 CFR 21.303 DWG No: AB-92815- 62 Rev: A Date: 9/11/85 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, - A-65-1, -12, -12F, -12FJ, -12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-80-5J, -8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, -



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					14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, LTSIO-360-E, - EB, -KB, -RB, - E, -EB, -KB, - RB, GIO-470-A, IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, - N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B,



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					-BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TSIOL-550-A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320-



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



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					E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, -H2AD, - H3AD, O-340- A1A, -A2A, - B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B, -A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, -



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					C1D6, -C1E6, - C1F, -D1A, - E1A, -F1A, -K2A, -A1B6D, - A1D6D, - A3B6D, -C1E6D, -J1A6D, IVO- 360-A1A, LIO- 360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, -A1C, -A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, -A1AD, - A1F6D, -A1G6D, -A1LD, -A3AD, - A4AD, -A5AD, -



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					E1A6D, TIO- 360-A1A, -A1B, -C1A6D, TO- 360-A1A6D, - C1A6D, -E1A6D, -F1A6D, VO- 360-A1A, -A1B, -B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, -



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					G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - BIC, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -D4C5, - E1A5, -E1B5, - E1C5, -G1A5, - G1B5, -G1C5, - G1D5, -G1E5, - G1F5, -J4A5, -



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					K1A5, -K1B5, - K1C5, -K1D5, - K1E5, -K1F5, - K1J5, -K1G5, - K1H5, -K1J5, - K1K5, -L1A5, - L1C5, -M1A5, - N1A5, -P1A5, - R1A5, S1A5, - AA1A5, - C4D5D, - K1A5D, - K1E5D, -K1F5D, -K1G5D, - K1J5D, -L1A5D, -L1B5D, - M1B5D, - M2A5D, - N1A5D, - T4A5D, -T4B5D, -T4C5D, - U1A5D, - V4A5D, - W1A5D, - W3A5D, IVO- 540-A1A, LTIO- 540-J2B, -U2A, - W2A, -F2BD, - J2BD, -N2BD, - R2AD, -V2AD, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, -



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					B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - H1B5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, -F2BD, - J2BD, -K1AD, - N2BD, -R2AD, S1AD, -V2AD, - AA1AD, - AB1AD, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, -



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					C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4, IO-720- A1A, -A1B, - B1A, -B1B, -C1B -A1BD, -B1BD, - C1BD, -D1BD, - D1CD
Retaining Ring	AB-92815- 37	Continental 10-92815-37	Test and Computations per 14 CFR 21.303 DWG No: AB-92815- 37 Rev: B Date: 5/1/23 or later FAA-approved revisions	Continental Aerospace Technologies	-65-1, -12, -12F, - 12FJ, -12J, -14, - 14F, -14FJ, -14J, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, A- 75-3, -8, -8F, -8J, -8FJ, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, -



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					14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -J, -K, -L, -M, - N, -P, -R, -S, -U, -V, O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -



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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Hartzell Engine Technologies LLC
2900 Selma Highway
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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
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					U, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, -D, -F, -H, -K, -L, - M, -N, IO- 520-A, -B, -BA, - BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, LTSIO-520-AE, TSIO-520-AE , - AF, -B, -BB, - BE, -C, -CE, -D, -DB, -E, -EB , - G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, - T, -UB, -VB, - WB, IO-550-A, - B, -C, -D, -E, -F, -G, -L, TSIO- 550A, -B, TSIOL-550-A, - B, 6-285-B, -C, - CA, 6-320-B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, - F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B,



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					-K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, - AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, - B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, -



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					C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1C, -D1D, - D1F, -D2A, - D2B, -D2C, - D2F, -D2G, - D2H, -D2J, - D3G, -E1A, - E1B, -E1C, -E1F, -E1J, -E2A, - E2B, -E2C, - E2D, -E2F, -E2G, -E2H, -E3D, - E3H, -H1AD, - H2AD, -H3AD , O-340-A1A, - A2A, -B1A, AIO-360-A1A, - A1B, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -E1AD, - E1BD, -F1AD, HO-360-A1A, - B1A, -B1B, IO- 360-A1A, -A1B,



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					-A1B6, -A1B6D, -A1C, -A1D, - A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6D, - B1A, -B1B, - B1C, -B1D, - B1E, -B1F, -B2E, -B2F, -B2F6, - B4A, -C1A, - C1B, -C1C, - C1C6, -C1D6, - C1E6, -C1E6D, - C1F, -D1A, - E1A, -F1A, - J1A6D, -K2A, IVO-360-A1A, LIO-360-A1H6, C1E6, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1A, - A1AD, -A1C, - A1D, A1F, - A1F6, -A1F6D, - A1G, -A1G6. - A1G6D, -A1H, - A1LD, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3AD, - A3D, -A4A, - A4AD, -A4D, - A4G, -A4J, - A4K, -A4M, -



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					A4N, -A5AD, - B1A, -B1B, - B2A, -B2B, - C1A, -C1C, - C1E, -C1F, - C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -E1A6D, - F1A6, -G1A6, TIO-360-A1A, - A1B, -C1A6D, TO-360-A1A6D, -C1A6D, - E1A6D, -F1A6D, VO-360-A1A, - A1B, -B1A, GO- 435-C2A, -C2A2, -C2B, C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, -



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					C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - B1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, -



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					B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -C4D5D, - D4A5, -D4B5, - D4C5, -E1A5, - E1B5, -E1C5, - G1A5, -G1B5, - G1C5, -G1D5, - G1E5, -G1F5, - J4A5, -K1A5, - K1A5D, -K1B5, - K1C5, -K1D5, - K1E5, -K1E5D, - K1F5, -K1F5D, - K1G5, -K1G5D, - -K1H5, -K1J5, - K1J5D, -K1K5, - L1A5, -L1A5D, - L1B5D, -L1C5, - M1A5, -M1A5D, - -M2A5D, -N1A5, - -N1A5D, -P1A5, - -R1A5, -S1A5, - T4A5D, -T4B5D, - -T4C5D, - U1A5D, V4A5D, - -W1A5D, - W3A5D, - AA1A5, IVO- 540-A1A, LTIO- 540-F2BD, J2B, - J2BD, -N2BD, - R2AD, -U2A, - V2AD, -W2A, O- 540-9, -9A, - A1A, -A1A5, -



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					A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H1B5D, - H2A5, -H2B5D, - J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO- 540-A1A, -A1B, -A1C, -A2A, - A2B, -A2C, - C1A, -E1A, - F2BD, -G1A, - H1A, -J2B, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -U2A, - V2AD, -W2A, - AA1AD, - AB1AD, -AE2A, -AF1A, TIVO- 540-A2A, VO- 540-A1A, -A2A, -B1A, -B1B, - B1B3, -B1C, -



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					B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, - C2C, TIGO-541- B1A, -D1A, - D1B, -E1A, TIO- 541-A1A, -E1A4, -E1B4, -E1C4, - E1D4
O-Ring	AB-349263	Continental 10-349263	Test and Computations per 14 CFR 21.303 DWG No: AB-349263 Rev: B Date: 12/21/22 or later FAA-approved revisions	Continental Aerospace Technologies	A-50-1, -2, -3, -4, -4J, -5, -5J, -6, - 6J, -7, -7J, -8, -8J, -9, -9J, -A-65-1, - 12, -12F, -12FJ, - 12J, -14, -14F, - 14FJ, -14J, -3, -6, -6J, -7, -8, -8F, - 8FJ, -8J, -9, -9F, - 9FJ, -9J, A-75-3, -8, -8F, -8J, -8FJ, -9, -9J, A-80-5J, - 8, -8J, -9, -9J, C75-12, -12B, - 12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, -



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					15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-1, -2, C145-2, -2H, - 2HP, -2, -2H, - 2HP, E165-2, -3, -4, E185-1, -10, - 11, -2, -3, -5, -8, - 9, E225-2, -4, -8, -9, -2, -4, -8, -9, O-200-A, -B, -C, -D, -X, O-300-A, -B, -C, -D, -E, IO-360-A, -C, - CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, - RB, TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, -SB, GIO-470-A, IO- 470-A, -C, -D, - E, -F, -G, -H, -J, - K, -L, -LO, -M, -



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					N, -P, -R, -S, -T, -U, -V, -VO, O- 470-11, -11B, - 11B-CI, -11-CI, - 13, -13A, -15, -2, -4, -A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M- CI, -N, -P, -R, -S, -T, -U, GTSIO- 520-C, -D, -E, -F, -H, -K, -L, -M, - N, IO-520-A, -B, -BA, -BB, -C, - CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P, LTSIO-520-AE, TSIO-520-A, - AE, -AF, -B, - BB, -BE, -C, - CE, -D, -DB, -E, -EB, -G, -H, -J, - JB, -K, -KB, -L, - LB, -M, -N, -NB, -P, -R, -T, -U, - UB, -VB, -WB, IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R Lycoming Engines O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2B, - C2C, -E1, -E1B, - E2A, -E2B, -F1, -



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					F1B, -F2A, -F2B, -G1, -G1B, - G2A, -G2B, - H2C, -J2A, -J2B, -K2A, -K2B, - K2C, -L2A, - L2C, -M1, -M2C, -M3C, -N2A, - N2C, -P1, -P2A, - P2C, -P3C, O- 290-D, -D2, - D2A, -D2B, - D2C, AIO-320- A1A, -A1B, - A2A, -A2B, - B1B, -C1B, AEIO-320-D1B, -D2B, -E1A, - E1B, -E2A, - E2B, IO-320- A1A, -A2A, - B1A, -B1B, - B1C, -B1D, - B1E, -B2A, - C1A, -C1B, - D1A, -D1B, - D1C, -E1A, - E1B, -E2A, - E2B, -F1A, LIO- 320-B1A, -C1A, O-320-A1A, - A1B, -A2A, - A2B, -A2C, - A2D, -A3A, - A3B, -A3C, - B1A, -B1B, - B2A, -B2B, -



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					B2C, -B3A, - B3B, -B3C, - C1A, -C1B, - C2A, -C2B, - C2C, -C3A, - C3B, -C3C, - D1A, -D1B, - D1D, -D1F, - D2A, -D2B, - D2C, -D2F, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E1C, -E1F, -E1J, -E2A, -E2B, - E2C, -E2D, -E2F, -E2G, -E2H, - E3D, -E3H, - H1AD, -H2AD, - H3AD, O-340- A1A, -A2A, - B1A, AIO-360- A1A, -A2A, - A2A, -A2B, - B1B, AEIO-360- A1A, -A1B, A1B6, -A1D, - A1E, -A2A, - A2B, -B1B, - B1F, -B1F6, - B1G6, -B2F, - B4A, -H1A, HIO-360-A1A, - B1A, -B1B, - C1A, -C1B, - D1A, -A1B6D, - A1D6D, -



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					A3B6D, -C1E6D, -J1A6D, HO- 360-A1A, -B1A, -B1B, IO-360- A1A, -A1B, - A1B6, -A1C, - A1D, -A1D6, - A2A, -A2B, - A2C, -B1A, - B1B, -B1C, - B1D, -B1E, - B1F, -B2E, -B2F, -B2F6, -B4A, - C1A, -C1B, - C1C, -C1C6, - C1D6, -C1E6,- C1F, -D1A, - E1A, -F1A,-K2A, A1B6D, - A1D6D, - A3B6D, -C1E6D, -J1A6D, IVO- 360-A1A, O-360- A1A, -A1C, - A1D, -A1F6, - A1G, -A1G6, - A1H, -A1N6, - A2A, -A2D, - A2E, -A2F, - A2G, -A2H, - A3A, -A3D, - A4A, -A4D, - A4G, -A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					C1C, -C1E, -C1F, -C1G, -C2A, - C2B, -C2C, - C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, A1AD, A1F6D, -A1G6D, -A1LD, -A3AD, - A4AD, -A5AD, - E1A6D, VO-360- A1A, -A1B, - B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, -B1B, -C1A, - D1A, -D1B, - E1A, -F1A, - G1A, -G1B, VO- 435-A1B, -A1C, -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, -



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					F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G1J6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, - B1F6, -B1G6, - B1J6, B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, IGSO-480-A1A6, -A1B6, -A1C6, - A1D6, -A1E6, - A1F3, -A1F6, O- 480-1, -1A, -3, AEIO-540-D4A5, -D4B5, -L1B5D, HIO-540-A1A, IGO-540-A1A, - A1B, -A1C, - B1A, -B1B, - B1C, IGSO-540- A1A, -A1C, - A1D, -A1E, - A1F, -A1H, - B1A, -B1C, IO- 540-A1A5, - B1A5, -B1B5, - B1C5, -C1B5, - C1C5, -C2C, - C4B5, -D4A5, - D4B5, -D4C5, -



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					E1A5, -E1B5, - E1C5, -G1A5, - G1B5, -G1C5, - G1D5, -G1E5, - G1F5, -J4A5, - K1A5, -K1B5, - K1C5, -K1D5, - K1E5, -K1F5, - K1J5, -K1G5, - K1H5, -K1J5, - K1K5, -L1A5, - L1C5, -M1A5, - N1A5, -P1A5, - R1A5, S1A5, - AA1A5, - C4D5D, - K1A5D, - K1E5D, -K1F5D, -K1G5D, - K1J5D, -L1A5D, -L1B5D, - M1B5D, - M2A5D, - N1A5D, - T4A5D, -T4B5D, -T4C5D, - U1A5D, - V4A5D, - W1A5D, - W3A5D, IVO- 540-A1A, LTIO- 540-J2B, -U2A, - W2A, -F2BD, - J2BD, -N2BD, - R2AD, V2AD, O-540-9, -9A, - A1A, -A1A5, -



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					A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B1D5, -B2A5, - B2B5, -B2C5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -E4C5, - F1A5, -F1B5, - G1A5, -G2A5, - H1A5, -H2A5, - H1B5D, - H2B5D, -J1A5D, -J1B5D, -J1C5D, -J2A5D, -J2B5D, -J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-A1A, - A1B, -A1C, - A2A, -A2B, - A2C, -C1A, - E1A, -G1A, - H1A, -J2B, - U2A, -W2A, - AE2A, -F2BD, - J2BD, -K1AD, - N2BD, -R2AD, - S1AD, -V2AD, - AA1AD, - AB1AD, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, -



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					B1D, -B1E, - B1F, -B1H3, - B2A, -B2C, - B2D, -B2E, - B2G, -C1A, - C1B, -C1C3, - C2A, -C2B, -C2C
				Franklin Engines	6A4-150-B3, - B4, -B31, 6A4- 165-B4, -B3, -B6, 6V4-178-B33, - B31, -B3, -B32, 6V4-200 -C32, - C33, 4A-235-B, - B2, -B31, -B6, - B3, -B4, 6A-335- A, -B, 6AS-335- A, -B, 6V-335-A, 6VS-335-A, -A1, -A1A, A1B, -B, 6A-350-C1A, - A2A, -C1R, -C1, -C2, -C1L
Clamp	AB-50765	Continental 10-50765	Test and Computations per 14 CFR 21.303 DWG No: AB-50765 Rev: D Date: 2/15/21 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, -



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					12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -185-2, -185-3, - 185-5, -185-8, - 185-9, -185-10, - 185-11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D, GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB,



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					TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H -L, -M, -N, -P, - R, -S, -U, -V, O- 470-A, -B, -E, - G, -J, -K, -L, -M, -P, -R, -2, -4, -7, - 7A, -7B, -11, - 11B, -13, -13A, - 15, TSIO-470-B, -C, -D, GTSIO- 520-C, IO-520-A, -B, -BA, -BB, -D, -E, -F, -K, -M, - MB, TSIO-520- B, -BE, -E, -EB , -VB, IO-550-A, - F, -G, TSIO- 550A, -B
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, - C2A, -C2C, -E1, -E1B, -E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A, - H2C, -J2A, - K2A, -K2C, - L2A, -L2C, -M1, -M2C, -M3C, - N2A, -N2C, -P1,



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					-P2A, -P2C, - P3C, O-290-D, - D2, -D2A, -D2B, -D2C, AEIO- 320-E1A, -E1B, - E2A, -E2B, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1D, - D2A, -D2B, - D2G, -D2H, - D2J, -D3G, - E1A, -E1B, - E2A, -E2B, - E2D, -E2G, - E2H, -E3D, - E3H, O-340- A1A, A2A, 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
					AEIO-360-A1A, -A1D, -A1E, -A2A, -B1B, -B4A, -H1A, HIO-360-A1A, -B1A, -B1B, -C1A, HO-360-A1A, -B1A, -B1B, IO-360-A1A, -A1D, -A2A, -B1A, -B1B, -B1C, -B1D, -B4A, -C1A, -K2A, IVO-360-A1A, O-360-A1A, -A1C, -A1D, -A1H, -A1N6, -A2A, -A2D, -A2E, -A2H, -A3A, -A3D, -A4A, -A4D, -A4J, -A4K, -A4M, -A4N, -B1A, -B1B, -B2A, -B2B, -C1A, -C1C, C1E, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -D1A, -D2A, -D2B, -F1A6, -G1A6, VO-360-A1A, -A1B, -B1A, GO-435-C2A, -C2A2, -C2B, -C2B1, -



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					C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, - -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, - -C1A, -D1B, - E1A, -G1B, VO- 435-A1B, -A1C, - -A1D, -A1E, - A1F, -B1A, GO- 480-B, -B1A6, - B1B, -B1C, - B1D, -C1B6, - C1D6, -C2C6, - C2D6, -C2E6, - D1A, -E1A6, - F1A6, -F2A6, - F2D6, -F3A6, - F3B6, -F4A6, - F4B6, -F6, - G1A6, -G1B6, - G1D6, -G1H6, - G2D6, -G2F6, - GSO-480-A1A6, - -A1C6, -A2A6, - B1A6, -B1B3, - B1B6, -B1C6, - B1E6, -B1F6, - B1G6, -B2C6, - B2D6, -B2G6, - B2H6, IGO-480- A1A6, -A1B6, - IGSO-480-A1E6, - -A1F3, -A1F6, - O-480-3, AEIO-



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					540-D4A5, IGO- 540-A1A, -A1B, -B1A, -B1B, - BIC, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -E1A5, - G1A5, -K1C5, - K1D5, -N1A5, IVO-540-A1A, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B2A5, -B2B5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -F1A5, - F1B5, -H1A5, - H2A5, TIO-540- AE2A, TIVO- 540-A2A, VO- 540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B2A, - B2C, -B2D, - B2E, -C1A, - C1B, -C1C3, - C2A, -C2B



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Oil Deflector	AB-51678	Continental 10-51678	Test and Computations per 14 CFR 21.303 DWG No: AB-51678 Rev: A Date: 3/22/96 or later FAA-approved revisions	Continental Aerospace Technologies	A-65-1, -12, - 12F, -12FJ, -12J, -14, -14F, -14FJ, -14J, -3, -6, -6J, - 7, -8, -8F, -8FJ, - 8J, -9, -9F, -9FJ, - 9J, A-75-3, -8, - 8F, -8J, -8FJ, -9, - 9J, C75-12, -12B, -12BF, -12BFH, - 12F, -12FH, - 12FHJ, -12FJ, - 12J, -15, -15F, -8, -8F, -8FH, -8FHJ, -8FJ, -8J, C85, - 12, -12F, -12FH, -12FHJ, -12FJ, - 12J, -14F, -15, - 15F, -8, -8F, - 8FHJ, -8FJ, -8J, C90-12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, -12F, -12FH, -12FJ, -12FP, - 14F, -14FH, - 14FJ, -16F, -8F, - 8FJ, C-125-2, C- 145-2, -145-2H, E-165-2, -165-3, -165-4, E-185-1, -2, -3, -5, -8, -9, - 10, -11, O-200-A, -B, -C, E-225-2, - 4, -8, -9, IO-240- A, O-240-A, -D,



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					GO-300-A, -B, - C, -D, -E, -F, O- 300-A, -B, -C, - D, -E, IO-346-A, -B, IO-360-A, -C, -CB, -D, -DB, - ES, -G, -GB, -H, -HB, -J, -JB, -K, - KB, LTSIO-360- E, -EB, -KB, TSIO-360-A, - AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, - LB, -MB, GIO- 470-A, IO-470-C, -D, -E, -F, -G, -H , -L, -M, -N, -P, - R, -S, -U, -V, O- 470-A, -B, -E, - G, -J, -K, -L, -M, -P, -2, -4, -7, -7A, -7B, -11, -11B, - 13, -13A, -15, TSIO-470-B, -C, -D, GTSIO-520- C, IO-520-A, -B, -BA, -BB, -D, -E, -F, -K, -M, -MB, TSIO-520-B, - BB, -BE, -E, -EB , -VB, IO-550-A, -F, -G
				Lycoming Engines	O-235-C1, -C1A, -C1B, -C1C, -



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					C2A, -C2C, -E1, -E1B, -E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A, - H2C, -J2A, - K2A, -K2C, - L2A, -L2C, -M1, -M2C, -M3C, - N2A, -N2C, -P1, -P2A, -P2C, - P3C, O-290-D, - D2, -D2A, -D2B, -D2C, AEIO- 320-E1A, -E1B, - E2A, -E2B, IO- 320-A1A, -A2A, -B1A, -B1B, - B1C, -B2A, - C1A, -C1B, - E1A, -E1B, - E2A, -E2B, - F1A, LIO-320- B1A, -C1A, O- 320-A1A, -A1B, -A2A, -A2B, - A2C, -A2D, - A3A, -A3B, - A3C, -B1A, - B1B, -B2A, - B2B, -B2C, - B3A, -B3B, - B3C, -C1A, - C1B, -C2A, - C2B, -C2C, - C3A, -C3B, - C3C, -D1A, - D1B, -D1D, -



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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.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
					D2A, -D2B, - D2G, -D2H, - D2J, -D3G, E1A, -E1B, -E2A, - E2B, -E2D, E2G, -E2H, -E3D, - E3H, O-340- A1A, -A2A, - B1A, AEIO-360- A1A, -A1D, - A1E, -A2A, - B1B, -B4A, - H1A, HIO-360- A1A, -B1A, - B1B, -C1A, HO- 360-A1A, -B1A, -B1B, IO-360- A1A, -A1D, - A2A, -B1A, - B1B, -B1C, - B1D, -B4A, - C1A, IVO-360- A1A, O-360- A1A, -A1C, - A1D, -A1H, - A1N6, -A2A, - A2D, -A2E, - A2H, -A3A, - A3D, -A4A, - A4D, --A4J, - A4K, -A4M, - A4N, -B1A, - B1B, -B2A, - B2B, -C1A, - C1C, -C1E, - C1G, -C2A, - C2B, -C2C, -



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					C2D, -C2E, - D1A, -D2A, - D2B, -F1A6, - G1A6, VO-360- A1A, -A1B, - B1A, GO-435- C2A, -C2A2, - C2B, -C2B1, - C2B2, -C2B26, - C2E, -D1, O-435- 6, -6A, -23, -23A, - -23B, -25, -25A, - A, -A2, -C, -C1, - C2, -K1, TVO- 435-A1A, -B1A, - -C1A, -D1B, - E1A, -G1B, VO- 435-A1B, -A1C, - -A1D, -A1E, - A1F, GO-480-B, - -B1A6, -B1B, - B1C, -B1D, - C1B6, -C1D6, - C2C6, -C2D6, - C2E6, -D1A, - E1A6, -F1A6, - F2A6, -F2D6, - F3A6, -F3B6, - F4A6, -F4B6, - F6, -G1A6, - G1B6, -G1D6, - G1H6, -G2D6, - G2F6, GSO-480- A1A6, -A1C6, - A2A6, -B1A6, - B1B3, -B1B6, - B1C6, -B1E6, -



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					B1F6, -B1G6, - B2C6, -B2D6, - B2G6, -B2H6, IGO-480 -A1B6, IGSO-480-A1A6, -A1B6, -A1E6, - A1F3, -A1F6, O- 480- 3, AEIO- 540-D4A5, IGO- 540-A1A, -A1B, -B1A, -B1B, - BIC, IO-540- A1A5, -B1A5, - B1B5, -B1C5, - C1B5, -C1C5, - C2C, -C4B5, - D4A5, -E1A5, - G1A5, -G1B5, - K1C5, -K1D5, - K1J5, -N1A5, IVO-540-A1A, O-540-9, -9A, - A1A, -A1A5, - A1B5, -A1C5, - A1D, -A1D5, - A2B, -A3D5, - A4A5, -A4B5, - A4C5, -A4D5, - B1A5, -B1B5, - B2A5, -B2B5, - B4A5, -B4B5, - D1A5, -E4A5, - E4B5, -F1A5, - F1B5, -H1A5, H2A5 , TIO-540- AE2A, TIVO- 540-A2A, VO-



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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
					540-A1A, -A2A- B1A, -B1B, - B1B3, -B1C, - B1D, -B1E, - B1F, -B2A, - B2C, -B2D, - B2E, -C1A, - C1B, -C1C3, - C2A, -C2B
				Franklin Engines	6A4-150-B3, - B31, -B4, 6A4- 165-B3, -B4, -B6, 6V4-178-B3, - B32, -B33, 6V4- 200-32, -33, 4A- 235-B, -B3, 6A- 335-A, -B, -B1, - B1A, 6AS-335- A, -B, 6V-335- A1A, -A1B, 6VS-335-A, -A1, -B, -B1, 6A-350- C1, -C1A, -C2, - C2A, -D1, -D1A, -D1B, 6V-350-A, -B
Capacitor	AB-382681- 1	Continental 10-382681-1	Test and Computations per 14 CFR 21.303 DWG No: AB-382681- 1 Rev: A Date: 12/10/10 or later FAA-approved revisions	Lycoming Engines	IO-720- A1BD, - B1BD, -C1BD, D1BD, -D1CD



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PMA No.:	PQ1383CE
Supplement No.:	84
Date:	12/8/2023
Project No.:	HET-PMA-ODA-029

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Lock Nut	AB-382936	Continental 10-382936	Test and Computations per 14 CFR 21.303 DWG No: AB-382936 Rev: B Date: 2/6/96 or later FAA-approved revisions	Lycoming Engines	O-320-H1AD, - H2AD, -H3AD, H10-360-E1AD, -E1BD, -F1AD, 10-360-A1B6D, - A1D6D, - A3B6D, C1E6D, -J1A6D, LO-360- A1G6D, - E1A6D, LTO- 360-E1A6D, O- 360-A1AD, - A1F6D, -A1G6D, A1LD, -A3AD, - A4AD, -A5AD, E1A6D, TIO- 360-C1A6D, TO- 360-A1A6D, - C1A6D, E1A6D, -F1A6D, AEIO- 540-L1B5D, IO- 540-C4D5D, - K1A5D, - K1E5D, K1G5D, -K1J5D, - L1A5D, -L1B5D, -M1B5D, - M2A5D, N1A5D, -T4A5D, - T4B5D, T4C5D, -U1A5D, - V4A5D, W1A5D, - W3A5D, LTIO- 540-F2BD, - J2BD, -N2BD, R2AD, -V2AD,



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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
					O-540-H1B5D, - H2B5D, -J1A5D, J1B5D, -J1C5D, - J2A5D, -J2B5D, J2C5D, -J3A5D, -J3C5D, -L3C5D, TIO-540-F2BD, - J2BD, -K1AD, N2BD, -R2AD, - S1AD, -V2AD, AA1AD, - AB1AD, IO-720- A1BD, -B1BD, - C1BD, D1BD, - D1CD

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

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

12/8/23

Date