



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

Rotorcraft Directorate
Fort Worth Manufacturing Inspection District Office
2601 Meacham Boulevard
Fort Worth, Texas 76137-4298

SEP 06 2013

Les Staples, President
Sky-Tec Partners, Ltd.
350 Howard Clemmons Road
Granbury, TX 76048

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Dear Mr. Staples:

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR) part 21, Certification Procedures for Products, Articles, and Parts, subpart K, the FAA has found that the design data, based on Test and Computation submitted by Sky-Tec Partners, Ltd., with your letter dated January 29, 2013, meet the airworthiness requirements of the regulations applicable to the products on which the articles are to be installed. Additionally, the FAA has determined that Sky-Tec Partners, Ltd., has established the quality system required by § 21.307 at 350 Howard Clemmons Road, Granbury, TX 76048. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 10.

You are reminded that the provisions of 14 CFR, parts 21 and 45, noted in our PMA letter of approval dated December 22, 1997, also apply to the enclosed PMA Listing-Supplement No. 10. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

Carlton N. Cochran
Manager, Fort Worth Manufacturing Inspection District Office
SW MIDO-42

Enclosure
PMA Listing-Supplement No. 10

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Sky-Tec Partners, Ltd.
 350 Howard Clemmons Road
 Granbury, TX 76048

PMA NO. PQ0852SW
 SUPPLEMENT NO. 10
 DATE August 29, 2010

Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Starter	122-12XLT	76210, 31A22102, 31A22106, 31A22112, 31A22361, 31A22473, 31B21211, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-233-A1, 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
Starter	122-12XLT	76210, 31A22102, 31A22106, 31A22112, 31A22473, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Division AVCO Corporation	O-290-A, -AP, -B, -C, -CP, -D, -D2, -D2A, -D2B, -D2C
Starter	122-12XLT	76210, 31A21210, 31A22102, 31A22106, 31A22112, 31A22361, 31A22473, 31A26043, 31B21211, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	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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Starter	122-12XLT	31A22102, 31A22106, 31A22112, 31A26043, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-340-A1A, -A2A, -B1A
Starter	122-12XLT	31A21210, 31A22102, 31A22106, 31A22112, 31A26043, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-360-A1A, -A1AD, -A1C, -A1D, -A1F, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2H, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -C4P, -C4F, -D1A, -D2A, -D2B, -E1AD, -E1A6D, -E2AD, -E1BD, -E2BD, -F1A6, -G1A6, -J2A
Starter	122-12XLT	31A21210, 31A22102, 31A22106, 31A22112, 31A26043, 31B23590	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	TO-360-A1A6D, -C1A6D, -E1A6D, -F1A6D

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Starter	149-12XLT	76211, 31A21198, 31A22100, 31A22104, 31A22110, 31A22206, 31A22470, 31A22471, 31A22552, 31A26041, 31B22105, 31B22206, 31B23592, LW-14207, LW-15571, LW-16460	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A

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Starter	149-12XLT	76211, 31A21198, 31A22100, 31A22104, 31A22110, 31A22206, 31A22470, 31A22471, 31A22552, 31A26041, 31B22105, 31B22206, 31B23592, LW-14207, LW-15571, LW-16460	Test and Computations per 14 CFR § 21.303, <u>DWG No: 21000</u> <u>Rev: -</u> <u>Date: 11/15/2012</u> or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B
Starter	149-12XLT	76211, 31A22100, 31A22104, 31A22110, 31A22470, 31A26041, 31B22105, 31B23592, LW-14207, LW-15571	Test and Computations per 14 CFR § 21.303, <u>DWG No: 21000</u> <u>Rev: -</u> <u>Date: 11/15/2012</u> or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-340-A1A, -A2A, -B1A

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Starter	149-12XLT	76211, 76213, 31A22100, 31A22104, 31A22110, 31A22206, 31A22470, 31A22552, 31A26041, 31B21064, 31B22105, 31B22206, 31B23592, LW- 14207, LW-14209, LW-15571, LW- 15573, LW-18047, LW-18989	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	TO-360-A1A6D, - C1A6D, -E1A6D, - F1A6D

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Starter	149-12XLT	76211, 76213, 31A22100, 31A22104, 31A22110, 31A22206, 31A22470, 31A22552, 31A26041, 31B21064, 31B22105, 31B22206, 31B23592, LW- 14207, LW-14209, LW-15571, LW- 15573, LW-18047, LW-18989	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AIO-360-A1A, - A1B, -A2A, -A2B, -B1B

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Starter	149-12XLT	76211, 76213, 31A22100, 31A22104, 31A22110, 31A22206, 31A22470, 31A22552, 31A26041, 31B21064, 31B22105, 31B22206, 31B23592, LW- 14207, LW-14209, LW-15571, LW- 15573, LW-18047, LW-18989	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	TIO-360-A1A, - A1B, -A3B6, - C1A6D
Starter	149-12XLT	31A26041, 31A22100, 31A22104, 31A22110, 31A22470, 31B22101, 31B22105, 31B22111, 31B22116, 31B26554, 31B23592	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	IO-390-A1A6, - A3A6, -A1B6, - A3B6

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Starter	122-24XLT	69953, LW-15483, LW-16207, 31A26042, 31B22362, 31B22103, 31B22107, 31B22113, 31B22117, 31B23590, 31B26552	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-233-A1, 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
Starter	122-24XLT	69953, 31B22362, 31B22103, 31B22107, 31B22113, 31B22117, 31B22475, 31B23590, 31B26552	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	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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Starter	149-24XLT	76212, LW-14208, LW-15572, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	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
Starter	149-24XLT	76212, LW-14208, LW-15572, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A
Starter	149-24XLT	76212, LW-14208, LW-15572, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Sky-Tec Partners, Ltd.
350 Howard Clemmons Road
Granbury, TX 76048

PMA NO. PQ0852SW
SUPPLEMENT NO. 10
DATE August 29, 2010

Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Starter	149-24XLT	76212, LW-14208, LW-15572, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B
Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	O-360-A1A, -A1AD, -A1C, -A1D, -A1F, -A1F6, -A1F6D, -A1G, A1G6, -A1G6D, A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2H, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -C4P, -C4F, -D1A, -D2A, -D2B, -E1AD, -E1A6D, -E2AD, -E1BD, -E2BD, -F1A6, -G1A6, -J2A

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Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-15574, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	TO-360-A1A6D, -C1A6D, -E1A6D, -F1A6D
Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-15574, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -E1A, -F1A, -J1AD, -J1A6D, -K2A, -L2A, -M1A, -M1B

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Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-15574, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AIO-360-A1A, -A1B, -A2A, -A2B, -B1B
Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-15574, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AEIO-360-A1A, -A1B, -A1B6, -A1E6, -A1C, -A1D, -A1E, -A2A, A2B, -A2C, -B1B, -B1D, -B1F, -B1F6, -B1G6, -B2F, -B2F6, -B1H, -B4A, -H1A, -H1B
Starter	149-24XLT	76212, 76214, LW-14208, LW-14210, LW-14447, LW-15572, LW-15574, LW-18990, 31B22476, 31B26900, 31B26040, 31B22207, 31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 21000 <u>Rev:</u> - <u>Date:</u> 11/15/2012 or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	TIO-360-A1A, -A1B, -A3B6, -C1A6D

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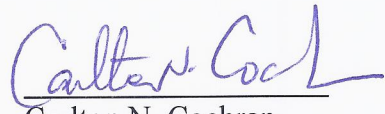
Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Starter	149-24XLT	31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No: 21000</u> <u>Rev: -</u> <u>Date: 11/15/2012</u> or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	IO-390-A1A6, -A3A6, -A1B6, -A3B6
Starter	149-24XLT	31B22101, 31B22105, 31B22111, 31B22116, 31B23592, 31B26554	Test and Computations per 14 CFR § 21.303, <u>DWG No: 21000</u> <u>Rev: -</u> <u>Date: 11/15/2012</u> or later FAA-approved revisions	Lycoming Engines An Operating Division of AVCO Corporation	AEIO-390-A1A6, -A3A6, -A1B6, -A3B6

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

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA approved ICA for the above parts with their designs. These ICA may refer to those of the respective parts from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement parts. Make referral statements or supplemental ICA readily available per 14 CFR 21.50.


S. Francis Cox
Manager, Special Certification Office
ASW-190


Carlton N. Cochran
Manager, Fort Worth Manufacturing
Inspection District Office