



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

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aviation Products Systems, Inc
3701 Highway 162
Granite City, IL 62040

PMA No: PQ3830CE
Supplement No. 18R
June 27, 2012

<u>Article Name</u>	<u>Part Number</u>	<u>Approved Replacement for Part Number</u>	<u>Approval Basis and Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Oil Drain Back Tube Assembly	APS-74808	74808	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-74808 <u>Rev -</u> <u>Date:</u> 11/15/2006 or later FAA-approved revisions	Lycoming	AEIO-360-A1A, -A1B, -A1B6, -A1C, -A1D, -A1D6, -A1E, -A1E6, -A2A, -A2B, -A2C, -A2E, -A3B6D AIO-360-A1A, -A1B, -A2A, -A2B, -B1B IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A LIO-360-C1E, -C1E6, -C1E6D TIO-360-A1A, -A1B, -A3B6 IO-390-A1A6, -A3A6, -A1B6, -A3B6
Oil Drain Back Tube Assembly	APS-11935	LW-11935	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS11935 <u>Rev -</u> <u>Date:</u> 11/18/2006 or later FAA-approved revisions	Lycoming	TIO-540-A1A, -A1B, -A2A, -A2B, -A1C, -A2C, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -U2A, -V2AD, -W2A, -AA1AD, -AB1AD, -AB1BD, -AE2A, -AF1A, -AF1B, -AG1A, -AH1A, -AJ1A, -AK1A LTIO-540-F2BD, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -U2A, -V2AD, -W2A
Oil Drain Back Tube Assembly	APS-68759	68759	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-68759 <u>Rev -</u> <u>Date:</u> 11/19/2006 or later FAA-approved revisions	Lycoming	O-320-A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, -B3C, -B2D, -B2E, -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 IO-320 -A1A-A2A-B1A, -B1B,

Oil Drain Back
Tube Assembly

APS-68760 68760

Test and Computations
14 CFR § 21.303
DWG No: APS-68760
Rev -
Date: 11/10/2006
or later FAA-approved
revisions

Lycoming

B1C, -B1E, -B1D, -B2A, -C1A, -
C1B, -D1A, -D1C, -D1B, -E1A, -
E1B, -E2A, -E2B, -F1A
LIO-320-B1A, -C1A
AIO-320-A1A, -A1B, -A2A, -A2B,
-B1B, -C1B
AEIO-320-D1B, -D2B, -E1A, -
E1B, -E2A, -E2B
O-340-A1A, -A2A, -B1A
AEIO-360-B1B, -B1D, -B1F, -
B1F6, -B1G6, -B1H, -B2F, -B2F6, -
B4A, -H1A, -H1B
HIO-360-B1A, -B1A
HO-360-A1A, -B1A, -B1B, -C1A
IO-360-B1A, -B1B, -B1C, -B1D, -
B1E, -B1F, -B1F6, -B1G6, -B2E, -
B2F, -B2F6, -B4A, -E1A, -F1A, -
L2A, -M1B, -MIA
LIO-360-M1A
LO-360-A1G6D, -A1H6, -E1A6D, -
E1AD, -E1BD, -E2AD, -E2BD
O-360--A1A, -A1AD, -A1C, -A1D,
-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, -B2A, -B2B, -
B2C, -C1A, -C1C, -C1E, -C1F, -
C1G, -C2A, -C2A, -C2C, -C2C, -
C2D, -C2E, -C4F, -C4P, -D2A, -
D2A, -D2B, -E1A6D, -E1AD, -
E1BD, -E2AD, -E2BD, -F1A6, -
G1A6, -J2A
AEIO-540-D4A5, -D4B5, -D4C5, -
D4D5
IO-540-AB1A5, -C1B5, -C4B5, -
C4B5D, -C4C5, -C4D5, -C4D5D, -
D4A5, -G1A5, -J4A5, -K1E5, -
L1C5, -M1B5D, -N1A5, -R1A5, -
S1A5, -T4A5D, -T4B5, -T4B5D, -
T4C5D, -V4A5D, -W1A5D
LTIO-540-F2BD, -J2B, -J2BD, -
K1AD
O-540-A1A, -A1A5, -A1B5, -
A1C5, -A1D, -A1D5, -A2B, -A3D5, -
B1A5, -B1B5, -B2B5, -B2B5, -
B2C5, -B2C5, -B4B5, -B4B5, -
E4A5, -E4A5, -E4B5, -E4B5, -
E4C5, -E4C5, -F1B5, -G1A5, -
G1A5, -G2A5, -H1B5D, -H2B5D, -
J1A5D, -J3A5, -J3A5D, -J3C5D, -
L3C5D, -W1A5, -W1A5D, -
W3A5D
TIO-540-AA1AD, -AB1AD, -
AF1A, -AG1A, -AH1A, -AJ1A, -
AK1A, -C1A, -E1A, -F2BD, -G1A, -
H1A, -J2B, -J2BD, -K1AD, -
N2BD, -R2AD, -S1AD, -T2AD, -
W2A

			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 IO-320 -A1A-A2A-B1A, -B1B, B1C, -B1E, -B1D, -B2A, -C1A, -C1B, -D1A, -D1C, -D1B, -E1A, -E1B, -E2A, -E2B, -F1A LIO-320 -B1A, -C1A AIO-320 -A1A, -A1B, -A2A, -A2B, -B1B, -C1B AEIO-320 -D1B, -D2B, -E1A, -E1B, -E2A, -E2B O-340 -A1A, -A2A, -B1A AEIO-360 -B1B, -B1D, -B1F, -B1F6, -B1G6, -B1H, -B2F, -B2F6, -B4A, -H1A, -H1B HIO-360 -B1A, -B1A HO-360 -A1A, -B1A, -B1B, -C1A IO-360 -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -H1A, -H1B LIO-360 -M1A LO-360 -A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD O-360 -A1A, -A1AD, -A1C, -A1D, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -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, -C2C, -C2C, -C2D, -C2E, -C4F, -C4P, -D2A, -D2A, -D2B, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A	
Oil Drain Back Tube Assembly	APS-68761	68761	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-68761 <u>Rev</u> - <u>Date:</u> 11/11/2006 or later FAA-approved revisions	Lycoming

IO-360-B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -E1A, -F1A, -I2A, -M1B, -MIA
LIO-360-M1A
LO-360-A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD
O-360-A1A, -A1AD, -A1C, -A1D, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2A, -A2D, -A2D, -A2E, -A2F, -A2G, -A2H, -A3A, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2A, -C2C, -C2D, -C2E, -C4F, -C4P, -D2A, -D2A, -D2B, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A
AEIO-540-D4A5, -D4B5, -D4C5, -D4D5
IO-540-AB1A5, -C1B5, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -G1A5, -J4A5, -K1E5, -L1C5, -M1B5D, -N1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5D, -W1A5D
LTIO-540-F2BD, -J2B, -J2BD, -K1AD
O-540, -A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2B5, -B2C5, -B2C5, -B4B5, -B4B5, -E4A5, -E4A5, -E4B5, -E4B5, -E4C5, -E4C5, -F1B5, -G1A5, -G2A5, -H1B5D, -H2B5D, -J1A5D, -J3A5, -J3A5D, -J3C5D, -L3C5D, -W1A5, -W1A5D, -W3A5D
TIO-540, -A1A, -A1B, -A1C, -A2A, -A2B, -AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A

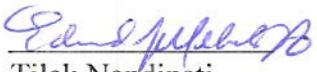
Oil Drain Back Tube Assembly	APS-71737	71737	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-71737 Rev - Date: 11/17/2006 or later FAA-approved revisions	Lycoming	AEIO-540-D4A5, -D4B5, -D4C5, -D4D5 IO-540-AB1A5, -C1B5, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -D4A5, -G1A5, -J4A5, -K1E5, -L1C5, -M1B5D, -N1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5D, -W1A5D LTIO-540-F2BD, -J2B, -J2BD, -K1AD O-540-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2C5, -B4B5, -E4A5, -E4B5, -E4C5, -F1B5, -G1A5, -G2A5, -H1B5D, -H2B5D, -J1A5D, -J3A5, -J3A5D, -J3C5D, -L3C5D, -W1A5, -W1A5D, -W3A5D TIO-540-AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -
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				AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A
Oil Drain Back Tube Assembly	APS-72702	72702	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-72702 <u>Rev</u> - <u>Date:</u> 11/12/2006 or later FAA-approved revisions	Lycoming AEIO-360-A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C AIO-360-A1A, -A1B, -A2A, -A2B, -B1B IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A LIO-360-C1E6 TIO-360-A1A, -A1B, -A3B6 AEIO-540-L1B5, -L1B5D, -L1D5 HIO-540-A1A IO-540-A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5 LTIO-540-N2BD, -R2AD, -U2A TIO-540-A1A, -A1B, -A1C, -A2A, -A2B, -A2C, -AE2A, -U2A AEIO-580-B1A IO-580-A1A, -B1A
Oil Drain Back Tube Assembly	APS-72703	72703	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-72703 <u>Rev</u> - <u>Date:</u> 11/13/2006 or later FAA-approved revisions	Lycoming AEIO-360-A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C AIO-360-A1A, -A1B, -A2A, -A2B, -B1B HIO-360-A1A, -A1B, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A LIHO-360-C1A, -C1B, -F1AD LIO-360-C1E6 TIO-360-A1A, -A1B, -A3B6 AEIO-540-L1B5, -L1B5D, -L1D5 HIO-540-A1A IO-540-A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5 LTIO-540-N2BD, -R2AD, -U2A TIO-540-A2C, -AE2A, -U2A AEIO-580-B1A IO-580-A1A, -B1A

Oil Drain Back Tube Assembly	APS-73027	73027	Test and Computations 14 CFR § 21.303 <u>DWG No:</u> APS-73027 Rev - Date: 11/14/2006 or later FAA-approved revisions	Lycoming	AEIO-360-A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C AIO-360-A1A, -A1B, -A2A, -A2B, -B1B HIO-360-A1A, -A1B, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A LIHO-360-C1A, -C1B, -F1AD LIO-360-C1E6 TIO-360-A1A, -A1B, -A3B6 AEIO-540-L1B5, -L1B5D, -L1D5 HIO-540-A1A IO-540, -A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5 LTIO-540-N2BD, -R2AD, -U2A TIO-540-A1A, -A1B, -A1C, -A2A, -A2B, -A2C, -AE2A, -U2A AEIO-580-B1A IO-580-A1A, -B1A
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-----End of Listing-----

Note: The procedures that have been accepted by the type certificate or TSO authorization holder and their cognizant FAA Aircraft Certification Office, for minor changes to original articles used on type-certified products, are also acceptable for incorporating the same minor changes on identical PMA replacement articles. The PMA holder must be able to show traceability relating to the TC, STC, or TSO authorization holder on all minor changes incorporated by this procedure. When these procedures are no longer applicable because of completion of the production contract, or termination of the licensing agreement or business relationship, all subsequent minor design changes to the PMA articles must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR §21.319) to drawings and specifications are to be handled in the same manner as that for an original PMA.

for 
Tilak Nandipati,
Manager, Kansas City,
Manufacturing Inspection District Office

July 19, 2012

Date: