



AVStar Fuel Systems, Inc.
1365 Park Lane South
Jupiter, FL 33458
www.avstardirect.com

SERVICE BULLETIN

New Fuel Nozzle for AVStar LVC-5-4PA Carburetor for Lycoming O-360-J2A installed on Guimbal Helicopters

DOCUMENT: AFS-SB14

REVISION: 1

ISSUED: April 23, 2020

PAGE: 1 OF 3

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1. APPLICABILITY

This Service Bulletin applies to certain carburetors manufactured by AVStar Fuel Systems, Inc. that were installed on Guimbal Helicopters aircraft equipped with O-360-J2A Engines.

2. REASON FOR PUBLICATION

To notify operators of the availability of an improved fuel nozzle and accelerator pump to allow the conversion of carburetors 61B26215, 61B26215-L & 61B28159 into Part Number 61B28525. Reference Lycoming Service Letter No. L261A.

3. BACKGROUND

AVStar worked together with Lycoming Engines and Guimbal Helicopters to develop the most recent carburetor Part No. AV 10-6500-1, Lycoming Part No. 61B28525. Part Numbers 61B26215-L & 61B28159 are no longer available and it is AVStar's recommendation that these two part numbers should be converted to the latest Factory Setting. The performance characteristics of all configurations are listed below in Table 1.

AVSTAR PART NO.	LYCOMING PART NO.	Fuel Performance
AV 10-6110	61B26215-L	Leanest
AV 10-6500	61B28159	
AV 10-6500-1	61B28525	Factory Setting Since November 2015
AV 10-6110	61B26215	Richest

Table 1



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4. TIME OF COMPLIANCE

If you are operating a Guimbal Helicopter with a Lycoming O-360-J2A engine and the engine is equipped with an AVStar carburetor model LVC-5-4PA, Lycoming part number 61B26215-L or 61B28159, we recommend replacing the existing fuel nozzle and accelerator pump. It is at the operator's discretion to comply with this Service Bulletin however, for optimal engine longevity and performance, compliance is strongly encouraged. It is also at the operator's discretion to determine whether or not to apply this conversion to Lycoming Part Number 61B26215 used on O-360-J2A engines installed in Guimbal Helicopters.

5. MATERIAL AVAILABILITY

A new nozzle and other parts necessary to effect this change are available directly from AVStar or any of our authorized Service Centers. The required parts for this conversion are listed below in Table 2.

QTY	PART NO.	DESCRIPTION
1	AV 16-222	GASKET-NOZZLE
1	AV 16-A107	GASKET-POWER JET
1	AV 16-B75	GASKET, BOWL
1	AV 47-872	ASSEMBLY-NOZZLE
4	AV 78-A110	WASHER - THROTTLE BODY BOWL
3	AV 82-11	COTTER PIN
1	AV 194-800	ACCELERATOR PUMP ASSY
1	AV 2045-01	PLATE-IDENTIFICATION
2	AV 2088	DRIVE PIN

Table 2



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6. INSTRUCTIONS FOR COMPLIANCE

6.1 Remove the carburetor in accordance with the Aircraft Maintenance Manual. Disassembly, part removal and replacement, and final reassembly should all be performed by AVStar directly or by an authorized AVStar service center. For specific details regarding the carburetor disassembly, refer to AVStar FSM LVC-S, Step 5a and 5b, i. For accelerator pump removal refer to Step 5b, iv, and note the location of the pump link. For nozzle removal refer to Step 5c, xviii.

WARNING All items listed in Table 2 require mandatory replacement, under no circumstances should any item be reused.

6.2 To install the replacement nozzle, refer to Step 7a, v, consuming part numbers AV16-A107, AV16-222 & AV47-872. To install the replacement bowl gasket, AV16-B75, refer to Step 7b, xiv. Reinstall the carburetor float refer to Step 7b, xiii, consuming Qty 1 of part number AV82-11. To install the replacement accelerator pump refer to Step 7b, xv, pump link location shall remain the same as previously installed, consuming part numbers AV194-800 and the remaining Qty 2 AV82-11. For final assembly refer to Step 7c, i & ii, consuming part number AV78-A110. For final testing refer to Step 7d, i through vii.

6.3 After complying with the instructions above, ensure the replacement data plate, part number AV2045-01, carries the following information: Engine Mfr. No. (61B28525), Model No. (LVC-5-4PA), Part No. (AV 10-6500-1), & Serial No. from the converted unit. Remove the old data plate and using the two Drive Pins, part number AV2088, attach the new data plate. The old data plate shall be mailed back to AVStar Fuel Systems.

For further clarity, please contact –

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