

RAJAY INDUSTRIES, INC.

A Subsidiary of The Texstar Corporation



SERVICE LETTER

No. 28

FAA Approved

Date: August 3, 1981

A. Subject: All Rajay turbocharger oil supply, drain, fuel and air hose assemblies that were changed or modified per the installation drawing for the appropriate Rajay Turbocharger Installation Kit.

B. Equipment Affected: All aircraft fitted with an FAA-PMA approved Rajay Turbocharger(s) Installation covered by Supplemental Type Certificate as affected.

Distribution: Aircraft Operators and/or Owners
Aircraft Modification Bases
Aircraft Maintenance Bases
Aircraft Manufacturers

C. Time of Compliance: At the next 100 hours time-in-service or at the next annual aircraft inspection whichever occurs first.

D. Purpose: Field service reports have indicated instances of deterioration of the flexible fluid hose (oil, fuel, and air) installed on aircraft powerplant equipped with Rajay turbocharger(s) systems although proper inspection and maintenance practice requires replacement of subject hoses at specified intervals as referenced in the MIL-STD-1523.

Since these hose assemblies are probably installed in connection with the turbocharger having a possible degree of temperature higher than the original, therefore maintenance and inspection at specific intervals must be assured to prevent hose deterioration and in-flight failure.

It has been found that these hose assemblies are not inspected for condition as often as they should be, and therefore improper function of hoses has occurred due to their overaging and deterioration. Hose assemblies found damaged must be replaced prior to the next flight.

E. Instructions: Inspect the affected hose assemblies listed in Part F as follows:

1. **Hose Assemblies Without Firesleeves** - Every fuel, oil and air hose assembly called out on the Rajay Installation Drawing for the reference STC's that is not firesleeved must be inspected for age and condition and must be replaced within three (3) years from the tagged manufactured date with a firesleeved hose assembly per instruction 2. Hoses damaged, deteriorated and/or in un-airworthy condition, must be replaced prior to the next flight.

2. **Hose Assemblies With Firesleeves** - All fuel, oil and air firesleeved hose assemblies called out on the Rajay Installation Drawing for the STC's must be replaced according to the date that the hose was manufactured. This date is shown on the metal tag wrapped around the hose assembly itself.

Reference MIL-STD-1523, paragraph 5.2.3, for assembly date code and Table 1 for age limitations. For each subject hose assembly replaced, substitute a firesleeved hose assembly of identical design as shown in Part F.

3. The hose assemblies listed in this Service Letter are those which were part of the turbocharger installation modification per respective Supplemental Type Certificate, however, all other power plant hose assemblies which are part of the original Aircraft Type Certification should be inspected for airworthy condition and/or replaced as necessary following this Service Letter guideline.

Note 1. We recommend that powerplant fuel hoses running from the firewall to the fuel pump and from the fuel pump to the fuel control servo or carburetor also be inspected (and replaced with firesleeved equivalents if necessary).

Note 2. Since the affected air hoses are not listed in this service letter, contact Rajay Industries for air hose correct part number replacement information.

Piper Aztec (Cont'd)		350-6-0220 (11147-6S-0220)	111F417-6S-0220 624000-6D-0220	Cessna 180 (Cont'd)		601000-6D-0084 (156001-6D-0084)	156F001-6D-0084 624100-6D-0084
		350-6-0144 (11417-6S-0144)	111F417-6S-0144 624000-6D-0144			601000-6D-0044 (156001-6D-0044)	156F001-6D-0044 624100-6D-0044
		601000-6D-0170 (156001-6D-0170)	156F001-6D-0170 624100-6D-0170			350-4-0260 (111417-4S-0260)	111F417-4S-0260 624000-4-0260
		601000-6D-0154 (156001-6D-0150)	156F001-6D-0154 624100-6D-0154			350-4-0250 (111417-4S-0250)	111F417-4S-0250 624000-4-0250
Beech Bonanza H35, J35 K35, M35, N35, P35, 35-33 35-A33, 35-B33, 35-C33, E33 F33	SA1252WE	350-4-0360 (111417-4S-0360)	111F417-4S-0360 624000-4-0360	Cessna 182 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P	SA1032WE	350-4-0140 (111417-4S-0140)	111F417-4S-0140 624000-4-0140
		350-4-0180 (111417-4S-0180)	111F417-4S-0180 624000-4-0180			350-4-0220 (111417-4S-0220)	111F417-4S-0220 624000-4-0220
		350-4-0160 (111417-4S-0160)	111F417-4S-0160 624000-4-0160			350-4-0160 (111417-4S-0160)	111F417-4S-0160 624000-4-0160
		350-4-0120	111F417-4S-0120 624000-4-0120			350-6-0170 (111417-6S-0170)	111F417-6S-0170 624000-6D-0170
		350-4-0224 (11147-4S-0224)	111F417-4S-0224 624000-4-0224			350-6-0300 (111417-6S-0300)	111F417-6S-0300 624000-6D-0300
		156001-6D-0290 (601000-6D-0290)	156F001-6D-0290 624100-6D-0290			350-6-0114 (111417-6S-0114)	111F417-6S-0114 624000-6D-0114
		156001-6D-0170 (601000-6D-0170)	156F001-6D-0170 624100-6D-0170			350-4-0084 (111417-4S-0084)	111F417-4S-0084 624000-4-0084
		156001-6D-0130 (601000-6D-0130)	156F001-6D-0130 624100-6D-0130			350-4-0054 (111417-4S-0054)	111F417-4S-0054 624000-4-0054
		156001-6D-0110 (601000-6D-0110)	156F001-6D-0110 624100-6D-0110			156001-6D-0190 (601000-6D-0190)	156F001-6D-0190 624100-6D-0190
		156001-6D-0044 (601000-6D-0044)	156F001-6D-0044 624100-6D-0044			156001-6D-0084 (601000-6D-0084)	156F001-6D-0084 624100-6D-0084
		601000-6D-0084 (156001-6D-0084)	156F001-6D-0084 624100-6D-0084			156001-6D-0044 (601000-6D-0044)	156F001-6D-0044 624100-6D-0044
		601000-6D-0064 (156001-6D-0064)	156F001-6D-0064 624100-6D-0064			111417-4S-0260 (350-4-0260)	111F417-4S-0260 624000-4-0260
		9480100004F0290	94F0100004F0290 111F417-4S-0290 624000-4-0290			111417-4S-0220 (350-4-0220)	111F417-4S-0220 624000-4-0220
		9480100004F0140	94F0100004F0140 111F417-4S-0140 624000-4-0140			111417-4S-0140 (350-4-0140)	111F417-4S-0140 624000-4-0140
Cessna 180 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J	SA1157WE	350-6-0220 (111417-6S-0220)	111F417-6S-0220 624000-6D-0220	Cessna 210 210A, 210B, 210C, 210-5 (205), 210-5A (205A)	SA1098WE	350-4-0360 (111417-4S-0360)	111F417-4S-0360 624000-4-0360
		350-6-0154 (111417-6S-0154)	111F417-6S-0154 624000-6D-0154			350-4-0140 (111417-4S-0140)	111F417-4S-0140 624000-4-0140
		350-6-0170 (111417-6S-0170)	111F417-6S-0170 624000-6D-0170			601000-6D-0130	156F001-6D-0130 624100-6D-0130
		350-6-0300 (111417-6S-0300)	111F417-6S-0300 624000-6D-0300			601000-6D-0194	156F001-6D-0194 624100-6D-0194
		350-6-0114 (111417-6S-0114)	111F417-6S-0114 624000-6D-0114			601000-6D-0154	156F001-6D-0154 624100-6D-0154
		350-6-0090 (111417-6S-0090)	111F417-6S-0090 624000-6D-0090			601000-6D-0114	156F001-6D-0114 624100-6D-0114
		601000-6D-0114 (156001-6D-0114)	156F001-6D-0114 624100-6D-0114			601000-6D-0084	156F001-6D-0084 624100-6D-0084
		601000-6D-0250 (156001-6D-0250)	156F001-6D-0250 624100-6D-0250				

Piper Comanche (Cont'd)		601000-6D-0154 (156001-6D-0154)	156F001-6D-0154 624100-6D-0154	Piper Comanche (Cont'd)	350-4-0250	111F417-4S-0250 624000-4-0250
		601000-6D-0130 (156001-6D-0130)	156F001-6D-0130 624100-6D-0130		111417-4S-0250	111F417-4S-0250 624000-4-0250
		350-4-0140 (111417-4S-0140)	156F001-4S-0140 624100-4D-0140		350-4-0360	111F417-4S-0360 624000-4-0360
		350-4-0260 (111417-4S-0260)	111F417-4S-0260 624000-4-0260		111417-4S-0360	111F417-4S-0360 624000-4-0360
		350-4-0180 (111417-4S-0180)	111F417-4S-0180 624000-4-0180		MS28741-8-0154	111F417-8S-0154 624000-8D-0154
		350-4-0360 (111417-4S-0360)	111F417-4S-0360 624000-4-0360		Evangel-Air SA2857WE 4500-300, 4500-300 Series II	111F417-4S-0360 624000-4-0360
		350-4-0290 (111417-4S-0290)	111F417-4S-0290 624000-4-0290			111F417-8S-0250 624000-8D-0250
		156001-6D-0290	156F001-8D-0290 624100-8D-0290		(See Note 1. for other power plant fuel hoses and see Note 2. for air hoses.)	624000-4-0224 111F417-4S-0224 624000-4-0224
		111F417-6S-0084 (624000-6-0084)	111F417-6S-0084 624000-6D-0084			624000-4-0180 111F417-4S-0180 624000-4-0180
		111F417-6S-0300 (624000-6-0300)	111F417-6S-0300 624000-6D-0300			601000-6D-0190 156F001-8D-0190 624100-6D-0190
		111F417-6S-0250 (624000-6-0250)	111F417-6S-0250 624000-6D-0250			601000-8D-0170 156F001-8D-0170 624100-8D-0170
		111417-4S-0180	111F417-4S-0180 624000-4-0180			601000-8D-0154 156F001-6D-0154 624100-6D-0154
		624000-6-0240	111F417-8S-0240 624000-6D-0240		Helio H295 SA156S0	624000-6-0170 111F417-6S-0170 624000-8D-0170
		624000-4D-0180	111F417-4S-0180 624000-4-0180			601000-6D-0190 156F001-8D-0190 624100-6D-0190
Piper Comanche PA-24-400	SA2359WE	601000-6D-0250 (156001-8D-0250)	156F001-8D-0250 624100-6D-0250	(See Note 1. for other power plant fuel hoses and see Note 2. for air hoses.)		601000-8D-0170 156F001-8D-0170 624100-6D-0170
		601000-6D-0190 (156001-6D-0190)	156F001-6D-0190 624100-6D-0190			601000-8D-0084 156F001-6D-0084 624100-8D-0084
	(See Note 1 for other power plant fuel hoses and see Note 2 for air hoses.)	601000-6D-0044 (156001-6D-0044)	156F001-8D-0044 624100-6D-0044			601000-8D-0044 156F001-6D-0044 624100-6D-0044
		MS28741-6-0130	111F417-6S-0130 624000-8D-0130		350-6-0170	111F417-6S-0170 624000-6D-0170
		MS28741-4-0360	111F417-4S-0360 624000-4-0360		350-4-0120	111F417-4S-0120 624000-4-0120
		MS28741-4-0180	111F417-4S-0180 624000-4-0180		350-6-0240 (111417-6S-0240)	111F417-6S-0240 624000-6D-0240
		MS28741-4-0160 (111417-4S-0160) (350-4-0160)	111F417-4S-0160 624000-4-0160		350-6-0130 (111417-6S-0130)	111F417-6S-0130 624000-6D-0130
		9480100004F0140	94F0100004F0140 111F417-4S-0140 624000-4-0140		Helio H395 SA125S0	624000-6-0170 111F417-6S-0170 624000-6D-0170
		9480100004F0100	94F0100004F0100 111F417-4S-0100 624000-4-0100			601000-6D-0190 156F001-8D-0190 624100-6D-0190
		9480100004F0224	94F0100004F0224 111F417-4S-0224 624000-4-0224		(See Note 1. for other power plant fuel hoses and see Note 2. for air hoses.)	601000-6D-0170 156F001-8D-0170 624100-6D-0170
		9480100004F0240	24F0100004F0240 111F417-4S-0240 624000-4-0240			601000-6D-0084 156F001-6D-0084 624100-6D-0084
						601000-6D-0044 156F001-6D-0044 624100-6D-0044
					350-6-0170	111F417-6S-0170 624000-6D-0170

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Mooney (Cont'd)		111417-4S-0140 (350-4-0140)	111F417-4S-0140 624000-4-0140	Mooney (Cont'd)		94F0100004F0120	94F0100004F0120 111F417-4S-0120 624000-4-0120
		111417-4S-0260 (350-4-0260) (9480100004F0260)	111F417-4S-0260 624000-4-0260 94F0100004F0260			368010000600090	36F010000600090 156F001-6D-0090 624100-6D-0090
		111417-4S-0360 (350-4-0360)	111F417-4S-0360 624000-4-0360			948010000300180	94F010000300180 111F417-3S-0180 624000-3-0180
		111417-4S-0220 (350-4-0220)	111F417-4S-0220 624000-4-0220			94F0800008F0210	94F0800008F0210 111F503-8D-0210 624023-8D-0210
Mooney M20E, M20F	SA1411WE	350-4-0170	111F417-4S-0170 624000-4-0170	(See Note 1. for other power plant fuel hoses and see Note 2 for air hoses.)	SA2937WE	94F0100008F0204	94F0100008F0204 111F417-8D-0204 624000-8D-0204
		350-4-0220 (111417-4S-0220)	111F417-4S-0220 624000-4-0220			94F0100008F0054	94F0100008F0054 111F417-8D-0054 624000-8D-0054
		350-4-0360 (111417-4S-0360)	111F417-4S-0360 624000-4-0360			94F0100006F0330	94F0100006F0330 111F417-6S-0330 624000-6D-0330
		624040-6-0330	111F502-6S-0330 624040-6D-0330			624040-8-0450 (111F501-8S-0450)	111F501-8D-0450 624040-8D-0450
		624040-6-0270	111F502-6S-0270 624040-6D-0270			624040-8-0240 (111F501-8S-0240)	111F501-8D-0240 624040-8D-0240
		624000-6-0300	111F417-6S-0300 624000-6D-0300			624040-8-0380	111F502-8D-0380 624040-8D-0380
		350-4-0180	111F417-4S-0180 624000-4-0180			624000-4-0120 (111F417-4S-0120)	111F417-4S-0120 624000-4-0120
		624000-6-0360	111F417-6S-0360 624000-6D-0360			624000-4-0054 (111F417-4S-0054)	111F417-4S-0054 624000-4-0054
		350-6-0220	111F417-6S-0220 624000-6D-0220			111F417-8S-0380	111F417-8D-0380 624000-8D-0380
		624000-4-0160	111F417-4S-0160 624000-4-0160			MIL-H-6000-8 x 15	MIL-H-6000-8 x 15 with AE102-14-0140 or 2650-14-0140
		9480100004F0250	94F0100004F0250 111F417-4S-0250 624000-4-0250			MIL-H-6000-8 x 10	MIL-H-6000-8 x 10 with AE102-14-0090 or 2650-14-0090
		9480100004F0084	94F0100004F0084 111F417-4S-0084 624000-4-0084				
		111417-4S-0360 (350-4-0360)	111F417-4S-0360 624000-4-0360				
		111417-4S-0220 (350-4-0220)	111F417-4S-0220 624000-4-0220				
Mooney M20J	SA3555WE	948010000300290	94F010000300290 111F417-3S-0290 624000-3-0290	Beech Travelair 95, 895, 895A, 095A, E95	SA15350	156001-6D-0130 (601000-6D-0130)	156F001-6D-0130 624100-6D-0130
		94F0700006F0240	94F0700006F0240 111F502-6S-0240 624040-6D-0240			111F417-6S-0360 (624000-6-0360)	111F417-6S-0360 624000-6D-0360
		94F0100006F0180	94F0100006F0180 111F417-6S-0180 624000-6D-0180			111F417-4S-0094 (624000-4-0094)	111F417-4S-0094 624000-4-0094
		94F0100006F0120	94F0100006F0120 111F417-6S-0120 624000-6D-0120			111F417-4S-0250 (350-4-0250)	111F417-4S-0250 624000-4-0250
		94F0100004F0054	94F0100004F0054 111F417-4S-0054 624000-4-0054			111417-4S-0360	111F417-4S-0360 624000-4-0360
		368010000600190	36F010000600190 156F001-6D-0190 624100-6D-0190			111417-4S-0220	111F417-4S-0220 624000-4-0220
						111417-4S-0180 (350-4-0180)	111F417-4S-0180 624000-4-0180
						350-4-0360	111F417-4S-0360 624000-4-0360

RAJAY INDUSTRIES, INC.

A Subsidiary of The Texstar Corporation



AIR HOSE REPLACEMENT INFORMATION

Ref: Service Letter No. 28

Date: September 21, 1981

Affected Aircraft Model	Supplemental Type Certificate	Inspect And Or Replace Old Hose Assy	Install New Hose Assy (If Necessary)	
			(Stratoflex P/N)	(Rajay P/N)
Beech Bonanza S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C	SA2556WE	93B0100003D0170	193F000-3D-0170	103698-01
		93B0100004D0100	193F000-4D-0100	103699-01
		93B0100004D0340	193F000-4D-0340	103699-02
		93B0100003D0340	193F000-3D-0340	103698-03
Aero Commander 500A	SA683WE	359-3D-0280	193F000-3D-0280	103698-10
		359-3D-0164	193F000-3D-0164	103698-12
		359-2D-0240	193F000-2D-0240	103697-12
Piper Apache PA-23 & PA-23-160	SA1260WE	AN6270-3-22 (359-3D-0220)	193F000-3D-0220	103698-07
		AN6270-3-19 (359-3D-0190)	193F000-3D-0190	103698-02
Piper Apache PA-23 & PA-23-160	SA4-1637WE	AN6270-3-15	193F000-3D-0150	103698-06
Piper Aztec PA-23-235 & PA-23-250	SA539WE	359-3D-0100	193F000-3D-0100	103698-05
		359-2D-0340	193F000-2D-0340	103697-11
		359-4D-0260	193F000-4D-0260	103699-04
		359-4D-0170	193F000-4D-0170	103699-05
		359-2D-0190	193F000-2D-0190	103697-06
		359-2D-0070	193F000-2D-0070	103697-09
		359-3D-0300	193F000-3D-0300	103698-13
Piper Aztec PA-23-250 & PA-E23-250 Serial No. 27-2505 & Subs.	SA840WE	AN6270-4-26	193F000-4D-0260	103699-04
		AN6270-2-24	193F000-2D-0240	103697-12
		AN6270-2-14	193F000-2D-0140	103697-14
		AN6270-3-24	193F000-3D-0240	103698-14
		AN6270-3-14	193F000-3D-0140	103698-15
		AN6270-4-34	193F000-4D-0340	103699-02
		AN6270-2-34	193F000-2D-0340	103697-11
Beech Bonanza 435, J35, 5, M35 35, P35, 35-33 35-A33, 35-B33, 35-C33, E33, F33	SA1252WE	AN6270-2-34	193F000-2D-0340	103697-11
		AN6270-2-19	193F000-2D-0190	103697-06
		AN6270-2-17	193F000-2D-0170	103697-07

RAJAY INDUSTRIES, INC.

Angel-Air 4500-300, 4500-30C Series II	SA2657WE	359-3D-0120 359-3D-0100 359-2D-0220 359-2D-0200 359-2D-0190 359-2D-0170	193F000-3D-0120 193F000-3D-0100 193F000-2D-0220 193F000-2D-0200 193F000-2D-0190 193F000-2D-0170	103698-04 103698-05 103697-15 103697-04 103697-06 103697-07
Helio H295	SA156SO	359-2D-0240 359-2D-0170	193F000-2D-0240 193F000-2D-0170	103697-12 103697-07
Helio H395	SA125SO	359-2D-0240 359-2D-0170	193F000-2D-0240 193F000-2D-0170	103697-12 103697-07
Britten Norman Islander BN-2, BN-2A, BN-2A-6, BN-2A-8, BN-2A-9	SA2243WE	AN6270-2-40 AN6270-2-30 AN6270-3-19 AN6270-2-36 AN6270-2-10	193F000-2D-0400 193F000-2D-0300 193F000-3D-0190 193F000-2D-0360 193F000-2D-0100	103697-03 103697-02 103698-02 103697-08 103697-01
Lake A-4, LA-4A	SA2270WE	AN6270-4-29 359-4D-0260 359-4D-0170 359-4D-0140	193F000-4D-0290 193F000-4D-0260 193F000-4D-0170 193F000-4D-0140	103699-03 103699-04 103699-05 103699-06
Lake LA-4-200	SA2990WE	AN6270-3-34	193F000-3D-0340	103698-03
Piper Lance PA-32R-300	SA3512WE	93B0100004D0200 93B0100004D0260 93B0100004D0100 93B0100004D0140 93B0100002D0190	193F000-4D-0220 193F000-4D-0260 193F000-4D-0100 193F000-2D-0140 193F000-2D-0190	103699-11 103699-04 103699-01 103699-06 103697-06
Mooney M20A, M20B, M20C, M20D, M20G	SA1156WE	AN6270-3-15 359-3D-0190 (AN6270-3-19)	193F000-3D-0150 193F000-3D-0190	103698-06 103698-02
Mooney M20E, M20F	SA1411WE	359-3D-0340 (AN6270-3-34) 359-3D-0120 359-3D-0020 359-3D-0160	193F000-3D-0340 193F000-3D-0120 193F000-3D-0220 193F000-3D-0160	103698-03 103698-04 103698-07 103698-08