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MANDATORY SERVICE BULLETIN

DATE:

July 16, 2013

Service Bulletin No. 342G (Supersedes Service Bulletin No. 342F) Engineering Aspects are FAA Approved

SUBJECT: MODELS AFFECTED: TIME OF COMPLIANCE: Fuel Line (Stainless Steel Tube Assy.) and Support Clamp Inspection and InstallationAll fuel injected Lycoming engines indicated in fuel line and clamping diagrams.Examine fuel lines every 100 hours, annual inspection, overhaul and any time fuel

NOTE

lines or clamps are serviced, removed, or replaced.

Incomplete review of all the information in this document can cause errors. Read the entire Service Bulletin to make sure you have a complete understanding of the requirements.

This Service Bulletin contains procedures for installation, inspection, and corrective action of fuel lines on fuel injected engines. Each fuel line must be installed with support clamps to keep the fuel lines securely located in place to prevent tube damage due to vibration and rubbing against other parts of the engine. Vibration, rubbing, and/or kinks in the fuel lines can cause cracks in the fuel lines, loss of fuel, and a fire.

NOTE

Some Lycoming Engines Parts Catalogs could identify the fuel manifold as a fuel flow divider or other term.

NOTE

The routing of fuel lines and the types of fittings in the fuel manifold assembly (straight or angle) for various Lycoming engine models in this Service Bulletin are an approximation. An example of a fuel manifold assembly is shown in Diagram 2. Your configuration could be slightly different from the diagrams in this Service Bulletin. The correct clamps must be installed on fuel lines to make sure the fuel lines are securely located.

If by omission during field overhaul or repair, support clamps are not installed on the fuel lines, the fuel lines will be subjected to vibrational forces and/or rubbing against other engine parts, become damaged, eventually break and leak fuel on the engine.

NOTE

Fuel line diagrams in this Service Bulletin apply to those Lycoming engines that were certified by the FAA as per the Civil Air Regulations (CAR), that do not require a separate Maintenance Manual for each engine model. This Service Bulletin does not include those engines certified by the Federal Aviation Regulations (FARs) that do require a separate Maintenance Manual for each engine model. When Lycoming releases a Maintenance Manual for a FAR certified engine model in compliance with FAR 21.50, the information for this inspection will be included in the mandatory Airworthiness Limitations Section of the Maintenance Manual for the FAR certified engine.



iation ers Association	ISSUED				REVIS	ED	PAGE NO.	REVISION
	MO	DAY	YEAR	MO	DAY	YEAR	1 of 47	G
	03	24	72	07	16	13	1 01 47	U

©2013 Avco Corporation. All rights reserved. Lycoming Engines is a division of Avco Corporation. To determine if your engine was certified by the CARs or FARs, copy the Type Certificate Data Sheet (TCDS) number from your engine's identification plate (the data plate). Using one of the internet search engines, ie. Google, enter FAA TCDS. One of the first results will be a direct link to the FAA's TCDS Library. Enter the TCDS number in the box provided and open the TCDS. On the TCDS next to the "Certification Basis" for your engine you will find CAR 13" or "FAR 33". Engines certified by CAR 13 will be in this Service Bulletin. Engines certified by FAR 33 will be in the Airworthiness Limitations Section of the Maintenance Manual for the FAR certified engine.

Fuel Line Inspection and Corrective Action

- 1. Identify the fuel line by number. Four-cylinder engines usually have four fuel lines. Six-cylinder engines have six fuel lines. Eight-cylinder engines have eight fuel lines.
- 2. Examine each fuel line and record findings per the Fuel Line Inspection and Installation Checklist.
- 3. After the inspection, refer to Table 1 for corrective action.
- 4. Record compliance with this Service Bulletin and any corrective action in the engine logbook.

Tab Corrective Actio	one 1 on for Fuel Lines		
Condition	Corrective Action		
Leaky, cracked, brittle, worn, chafed, fuel line Bent (non-kinked) stainless steel fuel lines that have an inside radius less than 5/8 in. (15.88 mm)	Replace fuel line with a new fuel line. Do NOT repair any fuel line that leaks or is cracked.		
Damaged, pitted, nicked, dented, crimped or kinked fuel line	Replace fuel line with a new fuel line. Do NOT re-use any fuel line that has a dent. Dents can cause cracks to form.		
No clamps installed on fuel line that had been in service	Replace the fuel line with a new fuel line and install clamps – refer to the section "Fuel Line Installation" in this Service Bulletin.		
Loose clamps	Replace fuel line with a new fuel line. Tighten or replace clamps and make sure they securely attach the fuel line to the engine.		
Deteriorated cushion on clamp, missing cushion, or cushion does not completely cover the fuel line diameter. (On engines that used metal clamps with no cushion, use the P/N LW-12598 fuel line sleeve at each of those clamping locations. The fuel line sleeve is not used with the cushioned clamps.)	Examine fuel lines in areas adjacent to the clamp. Replace any fuel line that has any condition identified above. Replace the clamp with a new clamp		
Trouble with fuel injector clamp installation caused by obstructive baffling	Install the clamps to enable clearance.		
 Refer to the latest revision of Service Instruction bending requirements and replacement information 	on No. 1301 for superseded fuel line identification, n.		

	ISSUE	ED	REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	2 of 47	C	SB 342
03	24	72	07	16	13	2 01 47	G	5.D. 542

Fuel Line Installation

- 1. Examine each fuel line for unacceptable conditions as per the "Fuel Line Inspection and Corrective Action" section in this Service Bulletin.
- 2. The diagrams in this Service Bulletin show a suggested routing and configuration arrangement for fuel lines on Lycoming engine models. These fuel line configuration diagrams are conceptual and are approximated. Fuel system routing could have slightly different configurations.
- 3. Clamps (preferably with cushions) must be installed on all fuel lines. If a fuel line had been in service and clamps were not installed, these fuel lines must be replaced with new fuel lines.
 - a. Do NOT use plastic tie straps in place of cushioned clamps.
 - b. On engines that used metal clamps with no cushion, use the P/N LW-12598 fuel line sleeve at each of those clamping locations. The fuel line sleeve is not used with the cushioned clamps.
 - c. If the clamps are to have a cushion, make sure the cushion is not missing and is intact, and completely covers the fuel line diameter.
 - d. Make sure the clamps are tightly attached to support the fuel line and to prevent movement from vibration or motion frequencies.
- 4. Make sure that the fuel lines are securely connected (to prevent line movement during flight) with the necessary clamps and hardware.
- 5. Fuel lines must be held in place securely using clamps with cushions. The clamps must be approximately 8 in. (20 cm) apart.



DO NOT ROUTE FUEL LINES CLOSE TO HEAT SOURCES. HEAT CAN DAMAGE THE FUEL LINE AND CAUSE A FUEL LEAK WHICH COULD LEAD TO CATASTROPHIC ENGINE FAILURE.

6. Do not let fuel lines touch the engine or airframe baffle hardware. There must be a minimum clearance of 3/16 in. (4.76 mm) between a fuel line and any engine or airframe surface.



DO NOT RETURN THE ENGINE TO SERVICE UNLESS THE ENGINE IS OPERATING CORRECTLY AND DOES NOT HAVE ANY LEAKS.

- 7. Look for any fuel leaks. Identify and correct the cause of any fuel leak.
- 8. Record compliance with this Service Bulletin and any corrective action in the engine logbook.

	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	2 of 17	C	SB 342
03	24	72	07	16	13	5 01 47	U	5.D. 542

Fuel Line I	nspection	on and Installation	Checklist
Engine Model:	Date	of Inspection:	Inspector:
Inspection Item	Fuel Line No.	Findings	Corrective Action Taken
Examine fuel line for damage, leaks, dents, pits, nicks, kinks, stains caused	1		
by fuel leaks, cracks, brittleness, or chafing	2		
	3		
	4		
	5		
	6		
	7		
	8		
Clamps (with cushions) attached to fuel lines. Fuel lines must be held in place	1		
securely with clamps in position approximately 8 in. (20 cm) apart.	2		
If no clamps are attached the fuel line that was in service, the fuel line must be	3		
replaced. Examine the cushion on clamps for	4		
deteriorated or missing, replace the	5		
clamp.	6		
secured and attached. If the clamps are loose, the fuel line must be replaced.	7		
NOTE Plastic tie straps are not acceptable substitutes for clamps.	8		

	ISSUE	SUED REVISED			PAGE NO.	REVISION		
MO	DAY	YEAR	MO	DAY	YEAR	4 of 47	C	SB 342
03	24	72	07	16	13	4 01 47	G	5.D. 542

	LEGEND FOR PARTS ON DIAGRAMS 1 TO 39							
(Fuel Lines,	Clamps, Brackets, Attachi	ng Hardware as shown in the following Engine Diagrams)						
CALL OUT	PART NUMBER	PART NAME						
1	76356	TUBE ASSY., Manifold to nozzle fuel line						
2	76357	TUBE ASSY., Manifold to nozzle fuel line						
3	76358	TUBE ASSY., Manifold to nozzle fuel line						
4	76359	TUBE ASSY., Manifold to nozzle fuel line						
5	76360	TUBE ASSY., Manifold to nozzle fuel line						
6	76361	TUBE ASSY., Manifold to nozzle fuel line						
7	76362	TUBE ASSY., Manifold to nozzle fuel line						
8	LW-12098-0-100	TUBE ASSY., Manifold to nozzle fuel line						
9	LW-12098-0-140	TUBE ASSY., Manifold to nozzle fuel line						
10	LW-12098-0-150	TUBE ASSY., Manifold to nozzle fuel line						
11	LW-12098-0-160	TUBE ASSY., Manifold to nozzle fuel line						
12	LW-12098-0-170	TUBE ASSY., Manifold to nozzle fuel line						
13	LW-12098-0-180	TUBE ASSY., Manifold to nozzle fuel line						
14	LW-12098-0-190	TUBE ASSY., Manifold to nozzle fuel line						
15	LW-12098-0-210**	TUBE ASSY., Manifold to nozzle fuel line						
16	LW-12098-0-210	TUBE ASSY., Manifold to nozzle fuel line						
17	LW-12098-0-220	TUBE ASSY., Manifold to nozzle fuel line						
18	LW-12098-0-240**	TUBE ASSY., Manifold to nozzle fuel line						
19	LW-12098-0-240	TUBE ASSY., Manifold to nozzle fuel line						
20	LW-12098-0-260	TUBE ASSY., Manifold to nozzle fuel line						
21	LW-12098-0-270	TUBE ASSY., Manifold to nozzle fuel line						
22	LW-12098-0-280	TUBE ASSY., Manifold to nozzle fuel line						
23	LW-12098-0-300	TUBE ASSY., Manifold to nozzle fuel line						
24	LW-12098-0-310	TUBE ASSY., Manifold to nozzle fuel line						
25	LW-12098-0-320	TUBE ASSY., Manifold to nozzle fuel line						
26	LW-12098-0-340	TUBE ASSY., Manifold to nozzle fuel line						
27	LW-12098-0-350	TUBE ASSY., Manifold to nozzle fuel line						
28	LW-12098-0-390	TUBE ASSY., Manifold to nozzle fuel line						
29	LW-12098-0-412	TUBE ASSY., Manifold to nozzle fuel line						
30	LW-13995-0-202	TUBE ASSY., Manifold to nozzle fuel line						
31	LW-13995-0-224	TUBE ASSY., Manifold to nozzle fuel line						
32	LW-13995-0-271	TUBE ASSY., Manifold to nozzle fuel line						
33	LW-13995-0-284	TUBE ASSY., Manifold to nozzle fuel line						
34	AN735-26	CLAMP						
35	LW-16266-10-13*	CLAMP						

	ISSUE	ED	REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	5 of 17	C	SB 342
03	24	72	07	16	13	5 01 47	G	5.D. 542

	LEGEND FOR PARTS ON DIAGRAMS 1 TO 39							
(Fuel Lines,	, Clamps, Brackets, Attachi	ng Hardware as shown in the following Engine Diagrams)						
CALL OUT	PART NUMBER	PART NAME						
36	LW-16266-10-25*	CLAMP						
37	LW-16266-10-38*	CLAMP						
38	LW-16266-10-44*	CLAMP						
39	LW-16266-10-75*	CLAMP						
40	LW-16266-25-13*	CLAMP						
41	LW-16266-25-25*	CLAMP						
42	LW-16266-25-38*	CLAMP						
43	LW-16266-25-44*	CLAMP						
44	LW-16266-25-50*	CLAMP						
45	LW-16266-25-63*	CLAMP						
46	LW-16266-25-75*	CLAMP						
47	71824	CLAMP						
48	LW-16266-25-13**	CLAMP						
49	74733	CLIP						
50	STD-692	SCREW, No. 10-32 x 1/2 long						
51	STD-860	SCREW, No. 10-32 x 5/8 long						
52	STD-921	SCREW, No. 10-32 x 7/8 long						
53	STD-1925	SCREW, 1/4-20 x 5/8 long						
54	STD-425	WASHER, No. 10 plain						
55	STD-28	WASHER, No. 10 plain						
56	STD-670	NUT, No. 10-32 self-locking						
57	72815	BRACKET, 90°, Twist						
58	73136	BRACKET, 90°						
59	73152	BRACKET, Support clamp						
60	75837	BRACKET, Fuel line support						
61	76735	BRACKET, 90°						
62	LW-14875	BRACKET, 90°						
63	75414	BRACKET, Fuel manifold						
64	76868	BRACKET, Support clamp						
65	74278	BRACKET ASSY., Fuel line support						
66	73626 (NLA)	BRACKET, Extension						
67	73318	BRACKET, Extension						
68	LW-25-0.81	BOLT, 1/4-20 x 13/16 long						
69	STD-8	WASHER, 1/4 plain						

	ISSUE	ED	REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	6 of 17	C	SB 342
03	24	72	07	16	13	0 01 47	G	5.D. 542

	LEGEND FOR	PARTS ON DIAGRAMS 1 TO 39
(Fuel Lines	, Clamps, Brackets, Attachin	ng Hardware as shown in the following Engine Diagrams)
CALL OUT	PART NUMBER	PART NAME
70	STD-160	WASHER, 1/4 lock
71	STD-1411	NUT, 1/4-20 plain
72	AN735-32 NLA	CLAMP
73	AN735-36 NLA	CLAMP
74	STD-969	SCREW, No. 10-32 x 1/2 long
75	STD-251	WASHER, No. 10 lock
76	73966	SPACER
77	STD-1916	SCREW, 1/4-20 x 1-1/8 long
78	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long
79	STD-1874	SCREW, 1/4-20 x 13/16 long
80	AN4-13A NLA	BOLT
81	LW-12598	SLEEVE
82	LW-25-0.50	BOLT, 1/4-20 x 1/2 long
83	LW-16266-10-63	CLAMP, 5/8 I.D.

* See page 8 for part number designation.

** P/N 73843 is superseded by P/N LW-16266-25-13, P/N LW-12098-0-200 superseded by P/N LW-12098-0-210, P/N LW-12098-0-230 superseded by P/N LW-12098-0-240.

NOTE

Aircraft quality Phillips head screws of proper length can be used in place of specified Lycoming screws.

	ISSUED REVISED			PAGE NO.	REVISION			
MO	DAY	YEAR	MO	DAY	YEAR	7 of 47	C	SB 342
03	24	72	07	16	13	/ 01 4 /	G	5.D. 542



Figure 1. Fuel Line Showing Minimum Dimension for Bending

PLEASE Note	When installing clamps, it does not matter whether the
	clamp is installed to the right or left of the shroud tube,
	only that it is clamped at that location and there is 3/16
I	inch (4.76 mm) clearance between the line and any engine surface.



	ISSUED MO DAY YEAR			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	9 of 17	C	SB 342
03	24	72	07	16	13	8 01 47	G	5.D . 542





	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	0 of 47	C	SB 342
03	24	72	07	16	13	90147	G	5.D . 542

 Diagram No. 2 -- IO-320-B1A, B1C, C1A, D1A, D1B, E1A, E1B, E2A, E2B LIO-320-B1A, C1A AEIO-320-D1B, D2B, E1B, E2B IO-360-B1G6, C1D6, C1F, C1G6 HIO-360-C1A, C1B, E1AD, E1BD, F1AD TIO-360-A1B



	ISSUE	D		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	10 of 47	C	SB 342
03	24	72	07	16	13	10 01 47	G	5.D. 542

Diagram No. 3 -- IO-360-C1C, C1C6, C1E6 LIO-360-C1E6



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	$11 \mathrm{ef} 47$	C	SB 342
03	24	72	07	16	13	11 01 47	G	5.D. 542

Diagram No. 4 -- IO-360-A1A, A1B, A1B6, A1B6D, A1C, A1D, A1D6, A2A, A2B, A3B6, A3B6D, B1D, B1F, B2F, C1A, C1B, C1D6, J1A6D, M1B HIO-360-C1A, C1B AEIO-360-A1A, A1B, A1B6, A1D, A1E, A1E6, B1F, B2F



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	12 of 47	C	SB 342
03	24	72	07	16	13	12 01 47	G	5.D. 542



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	12 of 47	C	SB 342
03	24	72	07	16	13	15 01 47	G	5.D . 542



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	14 of 47	C	SB 342
03	24	72	07	16	13	14 01 47	G	5.D . 542



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	15 of 47	C	SB 342
03	24	72	07	16	13	15 01 47	G	5.D. 542

Diagram No. 8 -- HIO-360-B1A (View 1 of 3) Rosette Installation



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	$16 \mathrm{of} 47$	C	SB 342
03	24	72	07	16	13	10 01 47	G	5.D. 542



	ISSUE	ED		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	17 of 47	C	SB 342
03	24	72	07	16	13	1/014/	G	5.D. 542



	ISSUE	D		REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	19 of 47	C	SB 342
03	24	72	07	16	13	18 01 47	G	5.D . 54 2



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	10 of 47	C	SB 342
03	24	72	07	16	13	19 01 47	G	5.D . 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	20 of 47	C	SB 342
03	24	72	07	16	13	20 01 47	G	5.D. 542

Diagram No. 13 -- AIO-320-A1B, B1B, C1B AIO-360-A1A, A1B, B1B



ISSUED			REVIS	ED	PAGE NO.	REVISION		
MO	DAY	YEAR	MO	DAY	YEAR	21 of 47	C	SB 342
03	24	72	07	16	13	21 01 47	G	5.D . 542

Diagram No. 14 -- TIO-360-C1A6D (View 1 of 3) Also see Diagram No. 15 and 16 for additional routing configurations.



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	22 of 47	C	S B 342
03	24	72	07	16	13	22 01 47	G	5.D. 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	22 of 47	C	S B 342
03	24	72	07	16	13	25 01 47	G	5.D . 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	24 of 47	C	SB 342
03	24	72	07	16	13	24 01 47	G	5.D. 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	25 of 47	C	SB 342
03	24	72	07	16	13	23 01 47	G	5.D. 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	26 of 47	C	SB 342
03	24	72	07	16	13	20 01 47	G	5.D . 542

Diagram No. 19 -- IO-540-C4D5D, G1C5, K1A5, K1A5D, K1B5, K1F5, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, AA1B5



	ISSUED			REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	27 of 47	C	SB 342
03	24	72	07	16	13	2/014/	G	5.D. 542

Diagram No. 20 -- IO-540-A1A5, G1A5, G1B5, G1D5, G1E5, G1F5, K1A5, K1B5, K1C5, K1D5, K1E5, K1E5D, K1F5, K1H5, K1J5, P1A5, S1A5, T4A5D, T4B5, T4B5D, T4C5D, AA1A5 TIO-540-U2A, AE2A, AH1A LTIO-540-U2A



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	28 of 47	C	SB 342
03	24	72	07	16	13	28 01 47	G	5.D . 542



	ISSUED			REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	20 of 47	C	SB 342
03	24	72	07	16	13	29 01 47	G	5.D. 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	20 of 47	C	SB 342
03	24	72	07	16	13	50 01 47	G	5.D . 542

|Diagram No. 23 -- IO-540-AB1A5★ <u>IO-540-D4B5</u> ★★ TIO-540-AK1A

Note: Underlined engine models indicate new engine model added to the list.

- ★ Note manifold orientation.
- ★★ With fuel flow transducer See Diagram 25 for model without fuel flow transducer.



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	21 of 47	C	SB 342
03	24	72	07	16	13	51 01 47	G	5.D . 542

Diagram No. 24 -- IO-540-AC1A5 TIO-540-AJ1A



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	22 of 47	C	SB 342
03	24	72	07	16	13	52 01 47	G	5.D. 542

Diagram No. 25 -- IO-540-A1A5, C1B5, C1C5, C4B5, C4D5D, D4A5, J4A5, L1C5, AB1A5* <u>IO-540-D4B5</u> ** TIO-540-C1A, E1A, G1A, AB1AD AEIO-540-D4A5, D4B5, L1B5, L1B5D, L1D5

Note: Underlined engine models indicate new engine model added to the list.

★ Note manifold orientation.

***** Without fuel flow transducer – See Diagram 23 for model with fuel flow transducer.



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	22 of 47	C	SB 342
03	24	72	07	16	13	55 01 47	G	5.D . 542



	ISSUED			REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	24 of 47 C		SB 342
03	24	72	07	16	13	54 01 47	G	5.D. 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	25 of 47	C	SB 342
03	24	72	07	16	13	55 01 47	G	5.D . 542

Diagram No. 28 -- TIO-540-A1A, A1B, A2A, A2B, A2C, F2BD, J2B, J2BD, N2BD, R2AD LTIO-540-F2BD, J2B, J2BD, N2BD, R2AD



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	26 of 17	C	SB 342
03	24	72	07	16	13	50 01 47	G	5.D. 542



	ISSUED REVISED				ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	27 of 47	C	SB 342
03	24	72	07	16	13	5/014/	G	5.D. 542



	ISSUED REVIS				ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	29 of 17	C	SB 342
03	24	72	07	16	13	58 01 47	G	5.D . 542

Diagram No. 31 -- TIO-540-S1AD



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	20 of 47	C	S B 342
03	24	72	07	16	13	59 01 47	G	5.D . 542

Diagram No. 32 -- TIO-540-V2AD, W2A LTIO-540-V2AD, W2A



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	40 of 47	C	S B 342
03	24	72	07	16	13	40 01 47	G	5.D . 542



	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	41 of 47	C	SB 342
03	24	72	07	16	13	41 01 47	G	5.D. 542



	ISSUED			REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	42 of 47	C	SB 342
03	24	72	07	16	13	42 01 47	G	5.D. 542



ISSUED				REVIS	ED	PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	42 of 47	C	SB 342
03	24	72	07	16	13	45 01 47	G	5.D . 542

Diagram No. 36 -- IO-720-A1A (View 1 of 2) Also see Diagram No. 37 for additional routing configuration.



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	$44 {\rm of} 47$	C	SB 342
03	24	72	07	16	13	44 01 47	G	5.D. 542



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	45 of 47	C	SB 342
03	24	72	07	16	13	43 01 47	G	5.D. 542



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	16 of 17	C	SB 342
03	24	72	07	16	13	40 01 47	G	5.D. 542



ISSUED			REVISED			PAGE NO.	REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	47 of 47	C	SB 342
03	24	72	07	16	13	4/014/	G	5.D . 542