



TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM TROUBLE SHOOTING (cont)		
Battery discharged	Equipment left on	Recharge
	Short circuit	Check system with ohmmeter and repair. Another check, if the battery isn't completely dead, is to turn on the master switch, remove the positive lead at battery and tap it to the battery post. Sparks or arcing indicate a short.
	Charging rate too low	Adjust voltage regulator
	Battery left standing too long	Recharge or replace
	Impurities in electrolyte	Replace battery
	Cell separators broken	Replace battery
	Loose or broken alternator belt	Tighten or replace belt
Short battery life	Corroded or loose battery connections	Clean and tighten
	Low charging rate	Adjust voltage regulator
	Impurities in electrolyte	Replace battery
	Battery left standing too long	Recharge or replace
Battery freezes	Undercharged or discharged battery	Replace battery
	Charging rate too high	Adjust voltage regulator
Battery uses excess amount of water	Shorted cell	Replace battery
	Shorted diode in alternator	Test diodes and replace as required
Starter motor inoperative	Low battery	Recharge or replace
	Defective wiring	Check wiring with ohmmeter and repair as required
	Defective starter relay	Replace relay
	Defective starter switch	With master switch off, conduct continuity test across starter switch. If circuit is open when button is depressed, replace switch.
Starter motor sluggish	Defective starter motor	Repair or replace
	Low battery	Recharge or replace
	Dirty contacts on starter switch or starter relay	Replace
	Defective starter	Repair or replace
	Dirty commutator	Clean and turn down if required

Yankee

SERVICE MANUAL



TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM TROUBLE SHOOTING (cont)		
Ammeter fails to indicate with engine operating	Alternator belt loose or broken	Tighten or replace belt
	Open circuit between alternator and bus bar	Check wiring for clean secure connections and repair as necessary
	Defective ammeter	Replace gauge
	Defective voltage regulator	Replace voltage regulator
	Tripped circuit breaker	Reset
Ammeter pointer fluctuates excessively	Flashing beacon	Verify and disregard
	Worn slip rings	Repair or replace alternator
	Loose connection in wiring	Locate and secure
Landing light fails to operate	Blown fuse	Replace fuse
	Lamp burned out	Replace lamp
	Defective switch	Replace switch
	Defective wiring	Check circuit with ohmmeter and repair as necessary
Flashing beacon fails to operate	Blown fuse	Replace fuse
	Defective wiring	Check circuit with ohmmeter and repair as necessary
	Defective switch	Replace switch
	Lamp burned out	Replace lamp
	Defective flasher unit	Replace flasher unit
One Navlight out	Lamp burned out	Replace lamp
	Defective wiring	Check circuit with ohmmeter and repair as necessary
All Navlights out	Blown fuse	Replace fuse
	Defective switch	Replace switch
	Defective wiring	Check circuit with ohmmeter and repair as necessary
One instrument light out	Lamp burned out	Replace lamp
All instrument lights out	Blown fuse	Replace fuse
	Defective wiring	Check circuit with ohmmeter and repair as necessary
	Defective rheostat	Replace rheostat



TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM TROUBLE SHOOTING (cont)		
Dome light out	Blown fuse	Replace fuse
	Lamp burned out	Replace lamp
	Defective switch	Replace switch
	Defective wiring	Check circuit with ohmmeter and repair as necessary
Flap motor fails to operate	Blown fuse	Replace fuse
	Defective wiring	Check circuit with ohmmeter and repair as necessary
	Defective switch	Replace switch
	Worn brushes	Replace brushes
	Annealed brush springs	Replace brushes
	Dirty commutator	Clean and turn down if required
	Defective flap motor	Replace flap motor
Flap motor operation sluggish	Worn brushes	Replace brushes
	Dirty commutator	Clean and turn down if required
Flap motor fails to shut off automatically in up position	Limit switch not correctly adjusted	Adjust limit switch
	Defective limit switch	Replace limit switch
	Up stop not positioned correctly	Reposition up stop so that circuit is opened by limit switch prior to contact with up stop.
Stall warning fails to operate	Blown fuse	Replace fuse
	Defective wiring	Check circuit with ohmmeter and repair as necessary
	Defective vane switch	Replace switch
	Defective horn	Replace horn



L. ELECTRICAL LOAD ANALYSIS

<u>CONTINUOUS LOADS</u>		<u>CURRENT DRAIN</u>	
		<u>AMPS</u>	
Oil Temperature Gage50	
Turn and Bank Indicator30	
Hourmeter50	
Navigation Lights		4.52	
Flashing Beacon		11.00	
Instrument Lights		2.31	
Pitot Heat		6.50	
Battery Contactor60	
	TOTAL	26.23	
<u>SHORT TERM LOADS</u>			
Stall Warning Horn40	
Electric Fuel Pump65	
Flap Motor		9.80	
Dome Light33	
Cigar Lighter		6.5	
Landing Light		7.3	
<u>RADIO EQUIPMENT</u>		<u>REC</u>	<u>TRANS</u>
Mark 3		6.5	9.0
Mark 8		5.2	6.2
Mark 12		5.2	9.5
Mark 12A & B		4.6	7.9
Mark 1672	4.82
Alpha 200 Genave		2.10	2.82
Beta 4096 Genave		1.4	2.4
UGR 2 Glide Slope23	--
ADF 31A64	--
MBT 12 Marker Rec19	--

APPENDIX A

ELECTRICAL SYSTEM WIRING DIAGRAMS

NOTE

The following pages utilize a different numbering system than the preceding sections. The reason is that they are reproduced engineering drawings and are all arranged numerically according to their respective sheet number.



NOTES

- 1 IPAB TO BE MADE FROM F2 DIODE (SARKES-TARZIAN OR EQUIV)
- 2 IPAT TO BE MADE FROM F4 DIODE (SARKES-TARZIAN OR EQUIV)
- 3 WIRE CODE IDENTIFICATION PER APS-1100

STARTER
SOLENOID

4 GROUND SHIELD@
VOLTAGE REGULATOR

402010-4 JUMPER (REF)

BATTERY
SOLENOID

IPA4

BATTERY

IPAB MASTER
SWITCH

IPAS

IPAT

IPAB

IPAS

IPAT

IPAB

IPAS

IPAT

VOLTAGE
REGULATOR

4

IPB4

IPB5

IPB6

IPB7

IPB8

IPB9

IPB10

IPB11

IPB12

IPB13

AMMETER

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0-10A1-0

0-10A2-0

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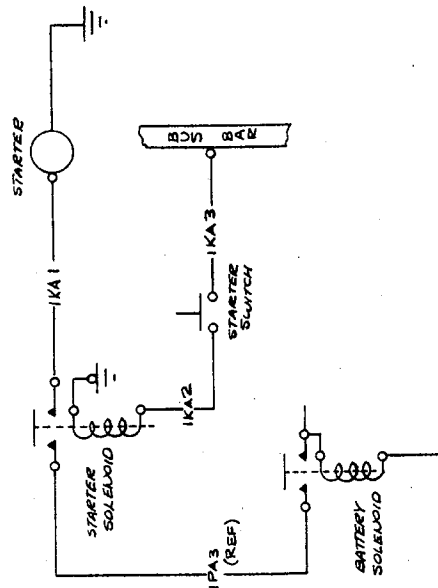
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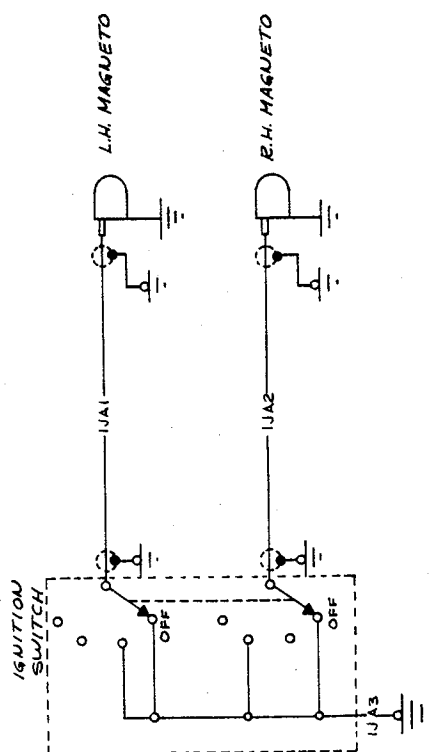


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			BY	DATE
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WIRE CODE		AWG	Lg	TERM #1	TERM #2	VENDOR	SERIALS
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1KA 2		20		31886	31886	AMP	
1KA 1		2		321600	321600	AMP	

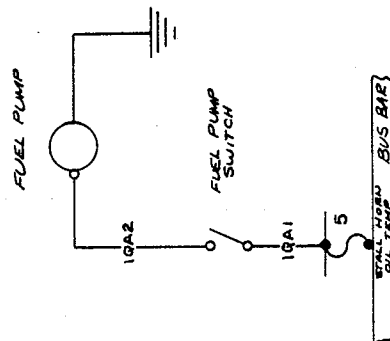
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STRESS		5-17-68			
PROJ. 100-100		100-100			
WEIGHT		100-100			
SUPERSTOCK		100-100			

DWG NO		13-402009	
SHEET		2	




								SERIALS
UJA3	I6	31903	31902	AMP				
UJA2	I6S	31902	31902	AMP				
UJA1	I6S	31902 31902 31903	31902 31902 31903	AMP				
UNCLASSIFIED	NWA LG	TERM #1	TERM #2	VENDOR				

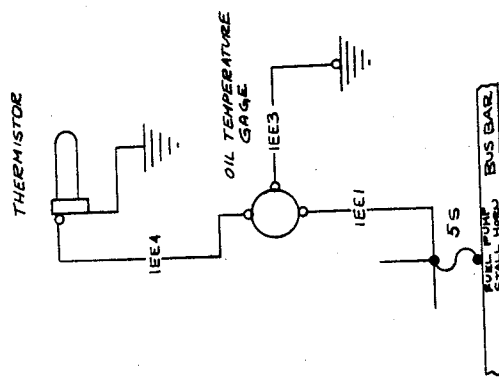
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SUPERSEDE:		SHEET 3 OF 1	

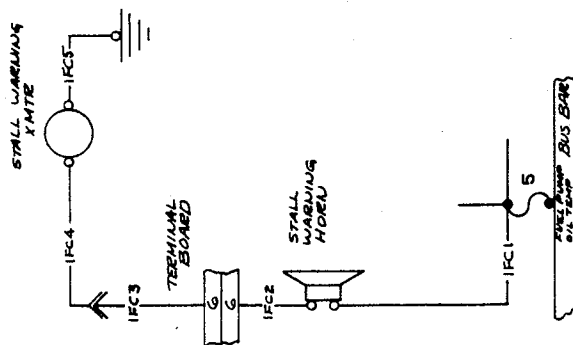


CHS LIR	AUTHORITY	DESCRIPTION	REVISION		BY	DATE	CHECKED	APPROVED
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TITLE										 AVIATION CORPORATION DOW, INC.																						
WIRING DIAGRAM FUEL PUMP SYSTEM										13-402009																						
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SCALE																																
WIRE TABLE																																
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GROUP: Vach	5-17-68																															
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NOTES:

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			DATE	APPROVE
A		REVISED WIRE TABLE, Q-50 6-25-68		

[illegible]




CHG LIE	AUTHORITY	DISPOSITION	RT	DATE	RECEIVED	APPROVED
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B		DELETED "ADDED" / W/ NAME FUTURE EIGHT REMOVED W/ NAME FOR W/ NAME 1982				

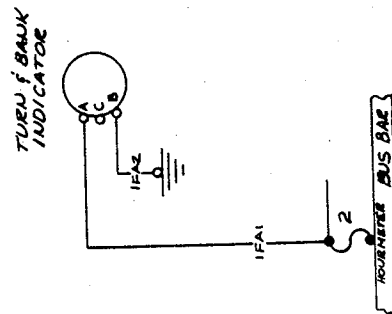
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- WIRE ASSY TO CONSIST OF HHJ FUSE HOLDER
 & AGC-2 FUSE. VENDOR IS BUSS

CHG LIR	AUTHORITY	DESCRIPTION	BY	CHGCD	
				DATE	APPROVED
A		ADDED NOTE IN ADDED FUSE, ADDED 320555 TO ILAI QUINN 0555-26 10-68	CHAS	11-68	
B		ADDED TERMINAL BLOCK REMOVED WING TABLE. OPERATED 2-25-68	CHAS	2-25-68	

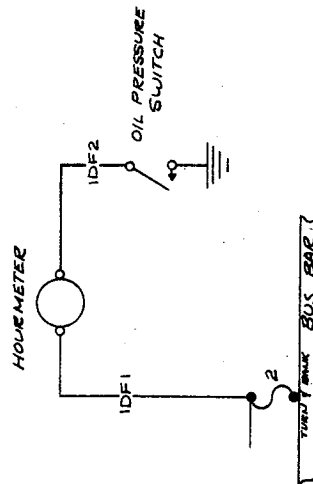
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WIRING DIAGRAM										TITLE		SHEET 8 OF	
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WIRE CODE										DATE		13-40-58	
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1LA1 20										THRS		54	



										AMERICAN		 AVIATION CORPORATION DUNS NO 13-402009		SHEET	9	OF	—
										AMERICAN AVIATION CORPORATION CLEVELAND, OHIO		WIRING DIAGRAM TURN AND BANK INDICATOR SYSTEM		SCALE			
										WIRE TABLE							
WIRE CODE NUMBER		AWG		LG		TEEM #1		TEEM #2		VENDOR							
IFA2		20				31891		31891		AMP							
IFA1		20				SOLDER		31891		AMP							
										TITLE		DATE					
										DRAWN		NAME		DATE			
										CHD		J. K.		5-7-48			
										GROUP		STRESS		5-7-48			
										PAG 1		RALL		5-7-48			
										WEIGHT							



NOTES
1 WIRE CODE IDENTIFICATION PER APS -1100

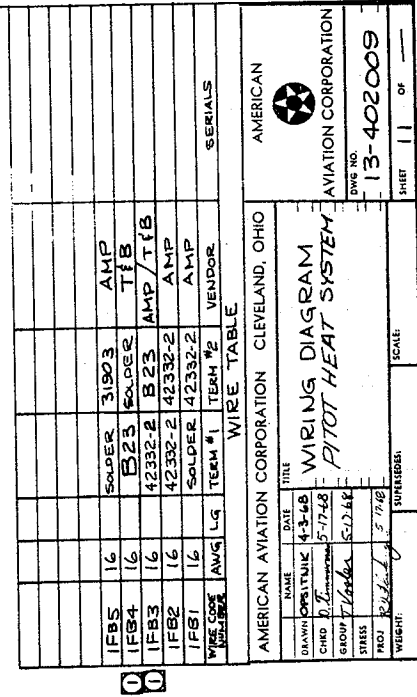


CHK	AUTHORITY	REVISION	BY	DATE	CHKD
A		REMOVED ID1 TERM #2 WAS BLANK ID2 TERM #1 WAS BLANK. ID2 WAS WIRE CODE IDENTIFICATION PER APS -1100 ID2 WAS BLANK. ID2 WAS BLANK.		5-17-68	WJC

WIRE CODE	AVG	LA	TERM #1	TERM #2	VENDOR	SERIALS
IDF2	—	—	AA8140	31891	AMP/ETC	
IDF1	—	—	SOLDER	AA8140	ETC	

AMERICAN AVIATION CORPORATION CLEVELAND, OHIO		AMERICAN	
NAME	DATE	TITLE	
DRAWN: J. J. J.	4-3-68	WIRING DIAGRAM	
GROUP: J. J. J.	5-17-68	HOURMETER SYSTEM	
STRESS			
NO. 1011	5/17/68		
WIRING	SUPPLEMENT	SCALE	
13-402009		SHEET	10 of 10

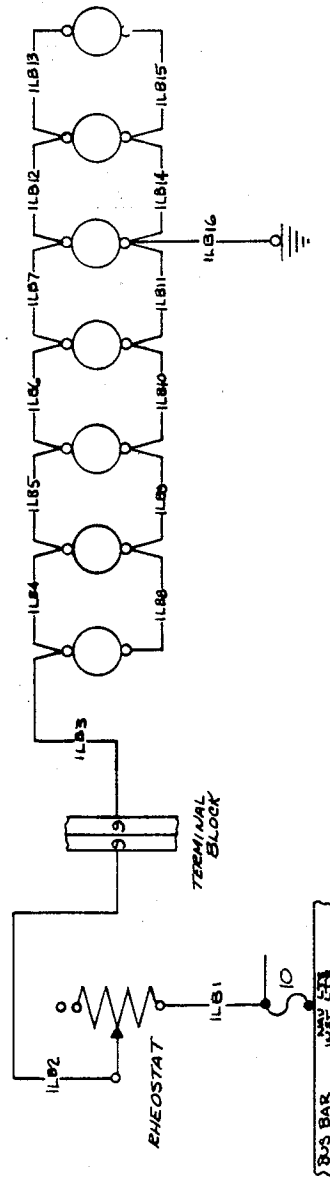
2 WIQE CODE IDENTIFICATION PER APS-1100





CHG	AUTHORITY	DESCRIPTION	BY	DATE	CHANGED
1	A	ADD 2 LAMPS, REVISED WIRE TABLE		7-3-68	
2	B	1 LB1 WIRE SIZE WAS 220 AWG		7-11-68	

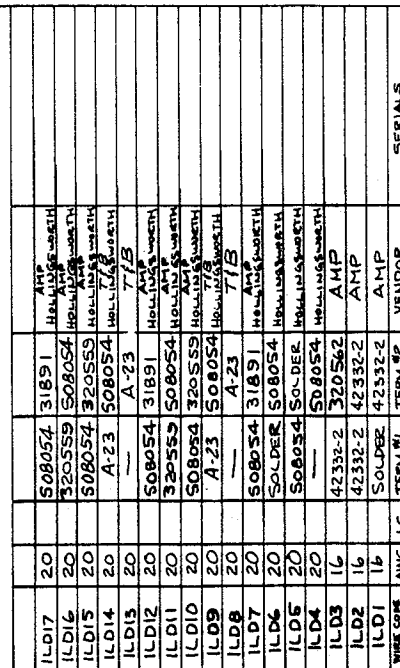
INSTRUMENT & FUEL MANOMETER LIGHTS



WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE COLOR	WIRE LENGTH	WIRE WEIGHT	WIRE TABLE
1LB16	20	SOLDER	31891			AMP
1LB15	20	SOLDER	SOLDER			
1LB14	20	SOLDER	SOLDER			
1LB13	20	SOLDER	SOLDER			
1LB12	20	SOLDER	SOLDER			
1LB11	20	SOLDER	SOLDER			
1LB10	20	SOLDER	SOLDER			
1LB9	20	SOLDER	SOLDER			
1LB8	20	SOLDER	SOLDER			
1LB7	20	SOLDER	SOLDER			
1LB6	20	SOLDER	SOLDER			
1LB5	20	SOLDER	SOLDER			
1LB4	20	SOLDER	SOLDER			
1LB3	20	425992	SOLDER			AMP
1LB2	20	SOLDER	425992			AMP
1LB1	16	SOLDER	SOLDER			
WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE COLOR	WIRE LENGTH	WIRE WEIGHT	VENDOR
1LB16	20	SOLDER	31891			AMP
1LB15	20	SOLDER	SOLDER			
1LB14	20	SOLDER	SOLDER			
1LB13	20	SOLDER	SOLDER			
1LB12	20	SOLDER	SOLDER			
1LB11	20	SOLDER	SOLDER			
1LB10	20	SOLDER	SOLDER			
1LB9	20	SOLDER	SOLDER			
1LB8	20	SOLDER	SOLDER			
1LB7	20	SOLDER	SOLDER			
1LB6	20	SOLDER	SOLDER			
1LB5	20	SOLDER	SOLDER			
1LB4	20	SOLDER	SOLDER			
1LB3	20	425992	SOLDER			AMP
1LB2	20	SOLDER	425992			AMP
1LB1	16	SOLDER	SOLDER			
WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE COLOR	WIRE LENGTH	WIRE WEIGHT	VENDOR

AMERICAN AVIATION CORPORATION CLEVELAND, OHIO		AMERICAN	
NAME	DATE	TITLE	
DRAWN OPERATOR	4-3-68	WIRING DIAGRAM	
CHECKED	5/2/68	INSTRUMENT	
GROUP	5/2/68	LIGHTS SYSTEM	
PROJ	RDJ/L		
WARRANT			
SHEET 12		OF 12	

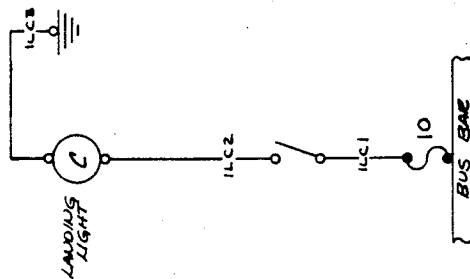
1 REMOVE TERMINALS SUPPLIED WITH LIGHT ASSEMBLIES

[illegible]



WINE CODE	AVG	LG	TECH #1	TECH #2	VENDOR	SERIALS
11LF7	16		B23	SOLDER	TfB	
11LF6	16		B23	SOLDER	TfB	
YELLOW			—	B23	TfB	
YELLOW				B23	TfB	
RED				B23	TfB	
11LF5	16		B23	B23	TfB	
11LF4	16		B23	B23	TfB	
11LF3	16		42332-2	B23	AMP / TfB	
11LF2	16		42332-2	42332-2	AMP	
11LF1	16		SOLDER	42332-2	AMP	

[illegible]



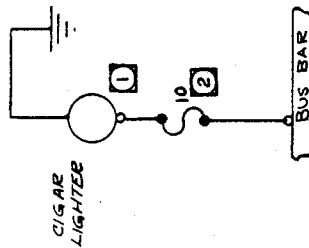
CHK LIT	AUTHORITY	REVISION		
		DESCRIPTION	DATE	CHK'D BY
A		DELETED ILC4 FILES ILC3 WAS ILC5, REVISED WIRE TABLE ON 5-25-66 G-25-66	3-25-66	APPROVED J. W. ...

[illegible]



CHG LIT	AUTHORITY	REVISION	BY	CHECKED
A		REMOVED NOTE 2 9/24/60	DATE	APPROVED

NOTES
 ① THIS WIRE SUPPLIED BY VENDOR - REMOVE EXISTING TERMINAL
 ② FUSE IS INTEGRAL PART OF WIRE, FUSE HOLDER 1/2 HHH (FUSE) & AGC-10 FUSE (BUS)



WIRE CODE	WIRE	LG	TERM #1	TERM #2	VENDOR	SERIALS
IHC1			320SS9	31891	AMP	

WIRE TABLE

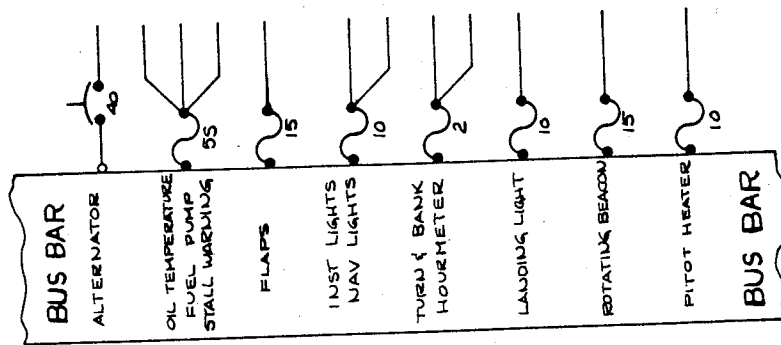
AMERICAN AVIATION CORPORATION CLEVELAND, OHIO						
NAME	DATE	TITLE	AMERICAN			
DAVIN	4-13-60	WIRING DIAGRAM				
CHG	5-17-60	CIGAR LIGHTER				
BRON	5-17-60					
STES	5-17-60					
PROJ	5-17-60					
VERBET						

AVIATION CORPORATION
 DWG NO. 13-402009
 SHEET 16 OF 16

Yankee SERVICE MANUAL



REV	BY	DATE	REVISION
1			



AMERICAN AVIATION CORPORATION CLEVELAND, OHIO		AMERICAN AVIATION CORPORATION	
NAME	DATE	TITLE	DWG NO
W. J. B. L.	5-16-44	WIRING DIAGRAM	13-402009
CHG	5-17-48	FUSE LOCATION	
TRASS	5-16-48		
PROJ	5-17-48		
WBSH		SCALE	SHEET 17 OF