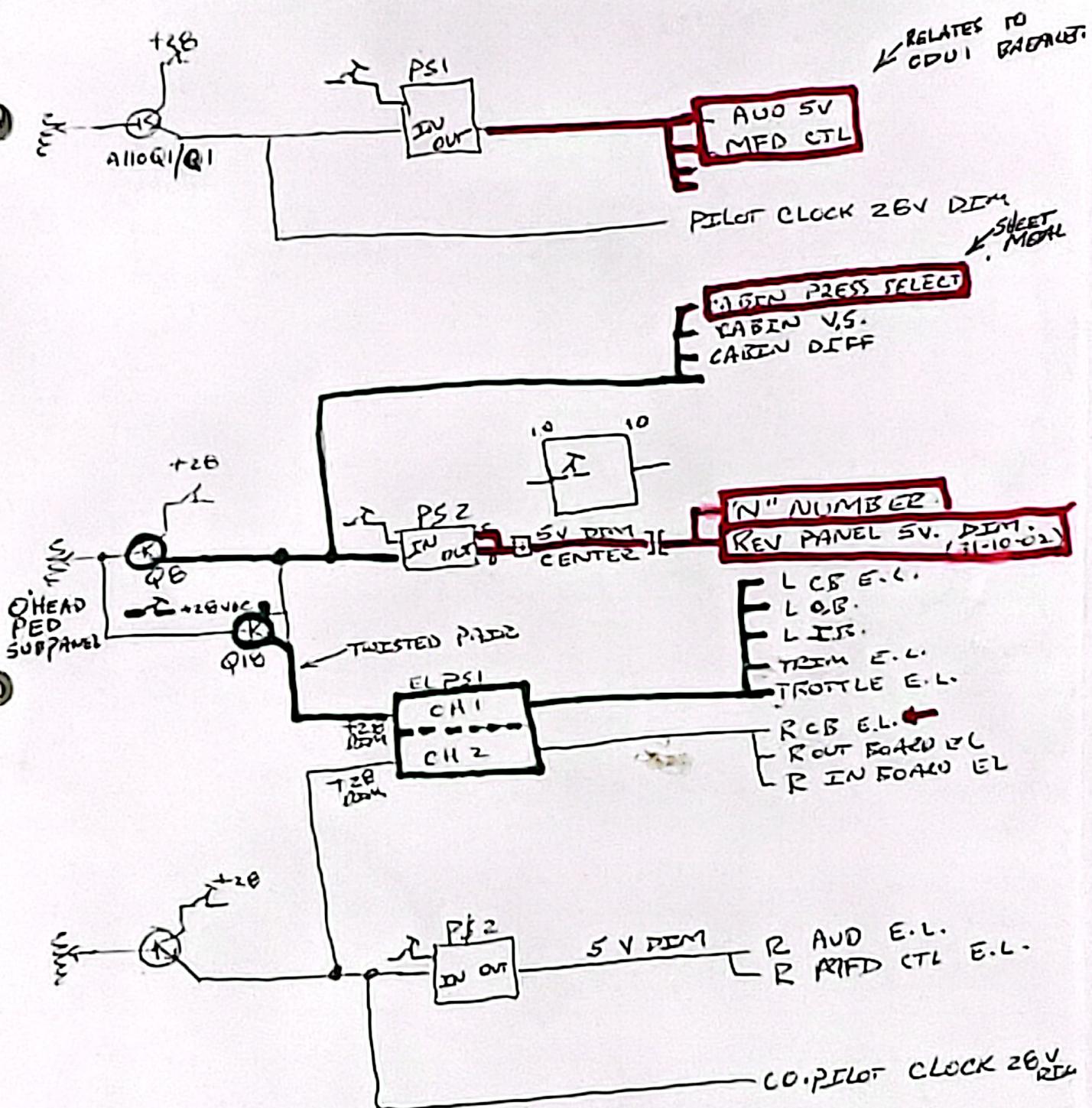
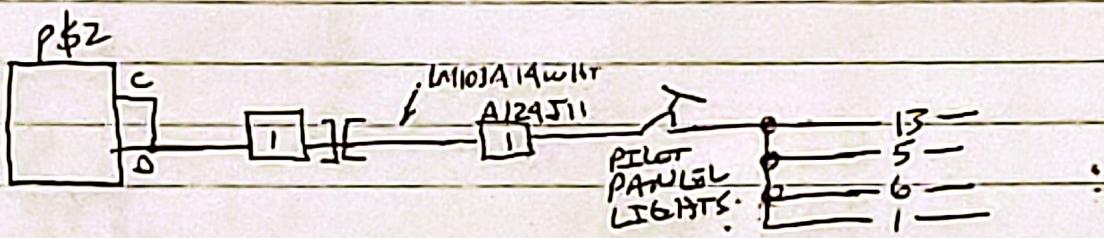


KING AIR N5241C DIMMIL6.

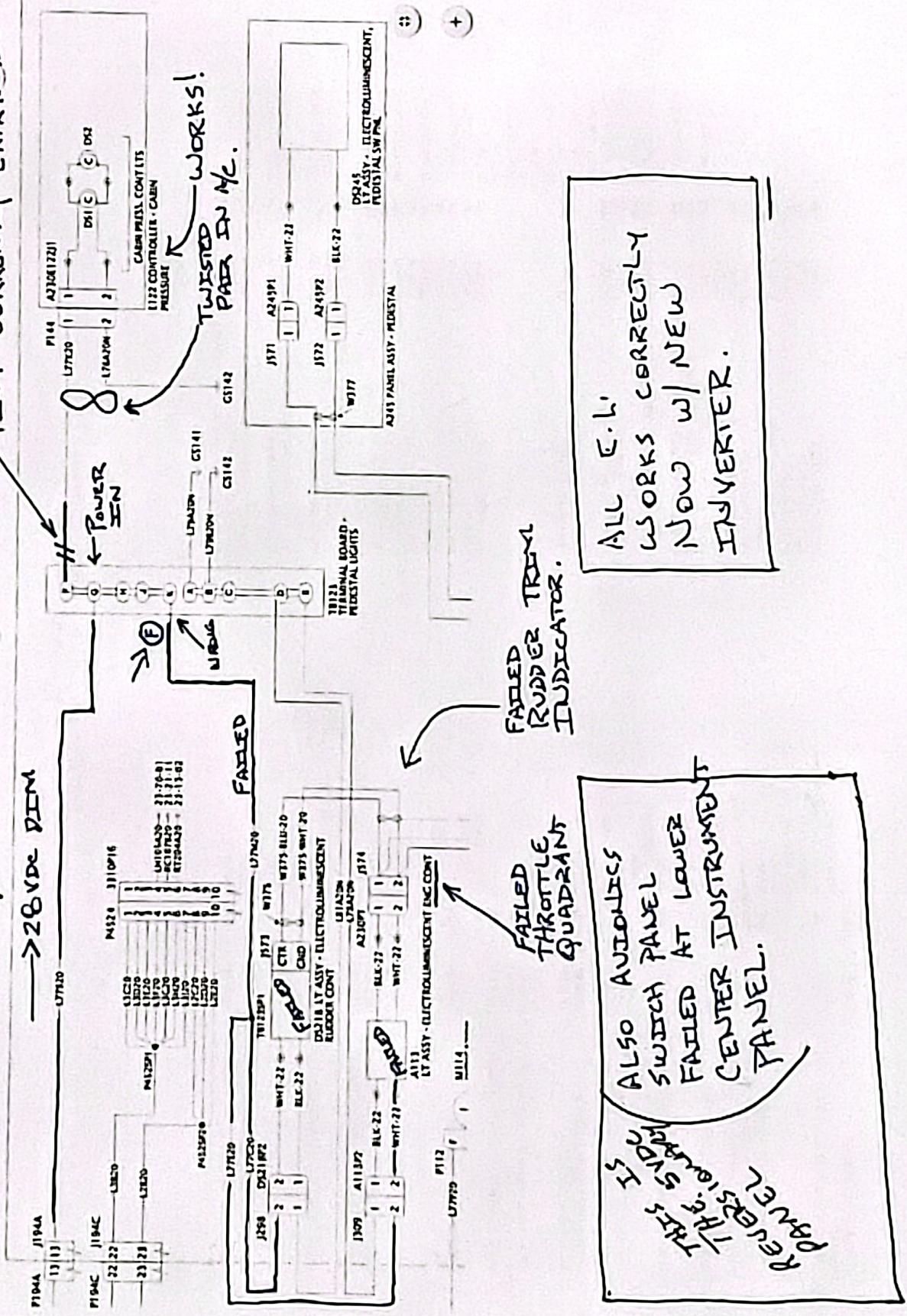


# PS2 CONNECTION



works now

-PIN F CURRENTLY EXTRACED.



**Beechcraft Corporation**  
SUPER KING AIR MODEL B200DOC FUSION HIRING DIAGRAM MANUAL

CHAPTER 33 - LIGHTS

TABLE OF CONTENTS

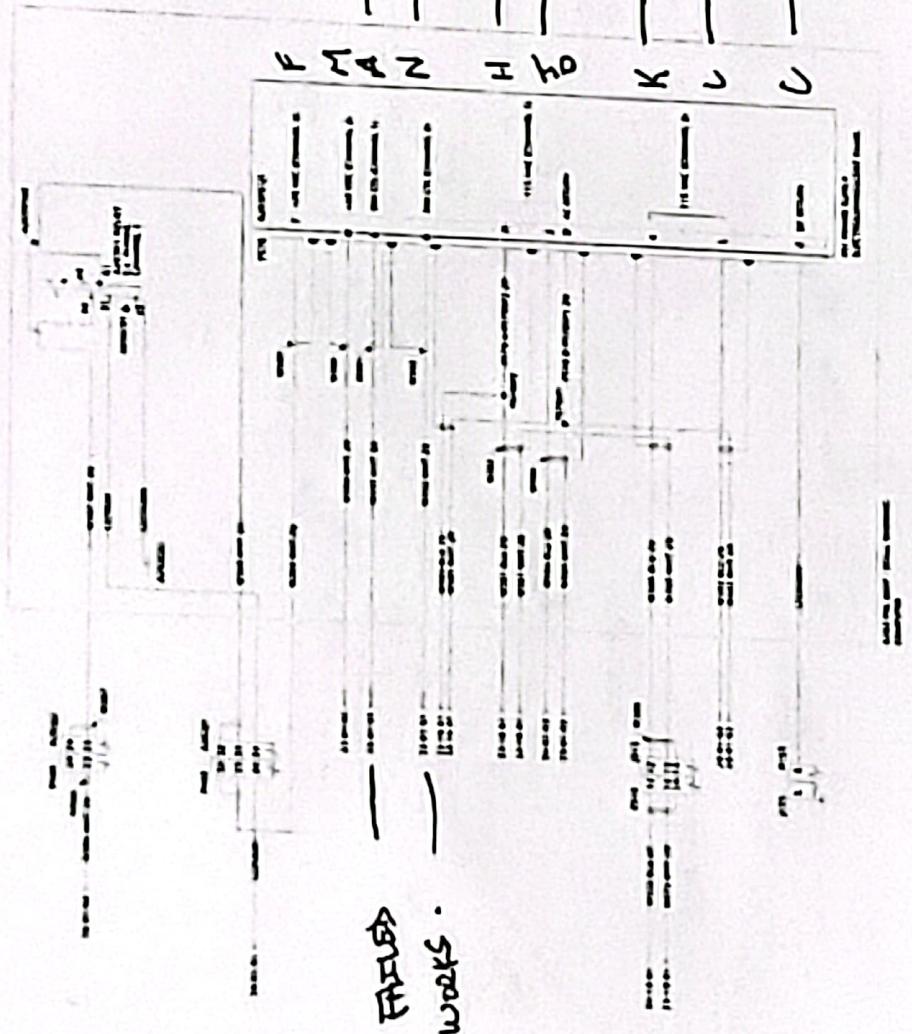
SUBJECT	CHAPTER ECTION UNIT	CONT'D EFFECT	SUBJECT	CHAPTER ECTION UNIT	CONT'D EFFECT
GENERAL	33-00-00	01C	FL004 FL1010 FL1031-FL1076	SIDE PANEL & OVERHEAD FLOOR LIGHTING PASSENGER COMPARTMENT LUGGAGE, LAVATORY AND VEHICLE LIGHTING	33-18-01 33-20-00 33-22-01
PANEL ASSEMBLY - OVERHEAD CONTROL	33-01-01	01C	FL004 FL1031-FL1076	LEFT READING LIGHTS LUGGAGE, LAVATORY AND VEHICLE LIGHTING	33-22-01 33-22-02
PANEL ASSEMBLY - OVERHEAD CONTROL	33-01-01	02E	FL004 FL1031-FL1076	RIGHT READING LIGHTS READJUSTABLE LIGHT AND POWER VENTBULL, AFT CARGO COMPARTMENT LIGHTS & EXT SIGNS	33-22-02 33-22-03
PANEL ASSEMBLY - OVERHEAD CONTROL	33-01-02	02E	FL004 FL1010 FL1031-FL1076	RIGHT READING TABLE LIGHTING LIFT READING/ADJUSTABLE LIGHTING ENTRY/LAVATORY MINI SWITCHES ENTRY & LOADDOOR LIGHTS	33-22-04 33-22-05 33-23-01
XANEL ASSEMBLY - OVERHEAD CONTROL	33-01-03	01C	FL004 FL1010 FL1031-FL1076	RIGHT LIGHTING ENTRY & LOADDOOR LIGHTS PANEL ASSEMBLY, LIGHTING CABIN LIGHTING CONTROLLER LEFT CABIN LIGHTING	33-23-01 33-23-02 33-24-00 33-24-01
PANEL ASSEMBLY - OVERHEAD CONTROL	33-01-04	02E	FL004 FL1031-FL1076	LEFT CABIN LIGHTING CABIN LIGHTING RIGHT CABIN LIGHTING	33-24-01 33-24-02 33-24-02
FLIGHT COMPARTMENT PILOT INSTRUMENT PANEL POWER SUPPLY COPILOT INSTRUMENT PANEL POWER SUPPLY	33-10-00	02A	FL004 FL1031-FL1076	CABIN LIGHTING VESTBULL & BAGGAGE COMPARTMENT LIGHTING	33-24-03 33-24-03
PEDESTAL POWER SUPPLY FORWARD PRESSURE BALANCE	33-10-02	02A	FL004 FL1010 FL1031-FL1076	CABIN ORDNANCE SIGNS CABIN ORDNANCE SIGN AND WARNING EXTERIOR	33-25-01 33-25-01
FORWARD PRESSURE BALANCE	33-10-04	02A	FL004 FL1010 FL1031-FL1076	FLOOR LEVEL ACCENT LIGHTING LANDING AND TAIL LIGHTS NAVIGATION LIGHTS ANTI-COLLISION FLASHING BEACON	33-26-01 33-41-01 33-42-01
FORWARD PRESSURE BALANCE	33-10-04	02E	FL004 FL1010 FL1031-FL1076	HIGH INTENSITY LIGHTING WING ICE LIGHTS TAIL FLOOR LIGHTS RECOGNITION LIGHTS	33-43-01 33-43-02 33-43-01 33-41-01 33-40-01
DIRECT INSTRUMENT LIGHTS OVERHEAD, SURFACE & CONSOLE LIGHTING	33-11-01	02E	FL004 FL1010 FL1031-FL1076	OVERHEAD, SURFACE & CONSOLE LIGHTING OVERHEAD INSTRUMENTS	33-40-01 33-40-01

33-00-00

**33 - CONTENTS**

PAGE 15  
APR 01/18

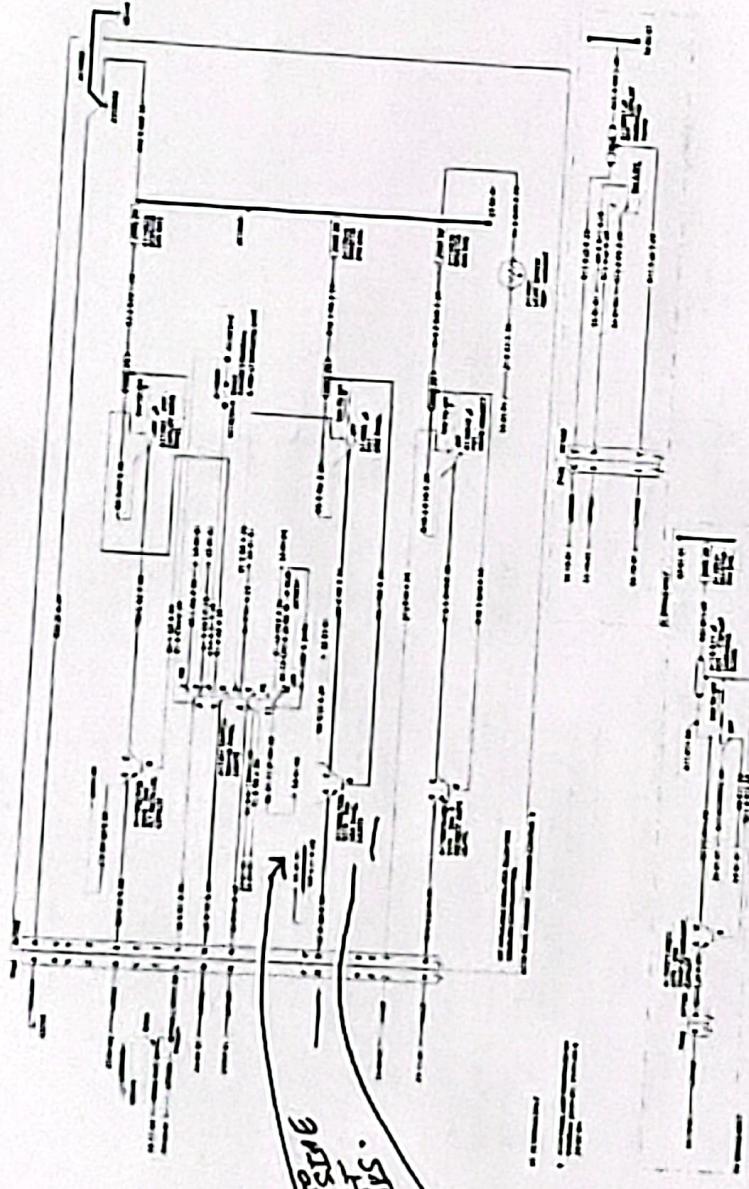
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ELECTROLUMINESCENT POWER SUPPLY

33-11-04-00E  
PAGE 1  
APR 2011

P40b



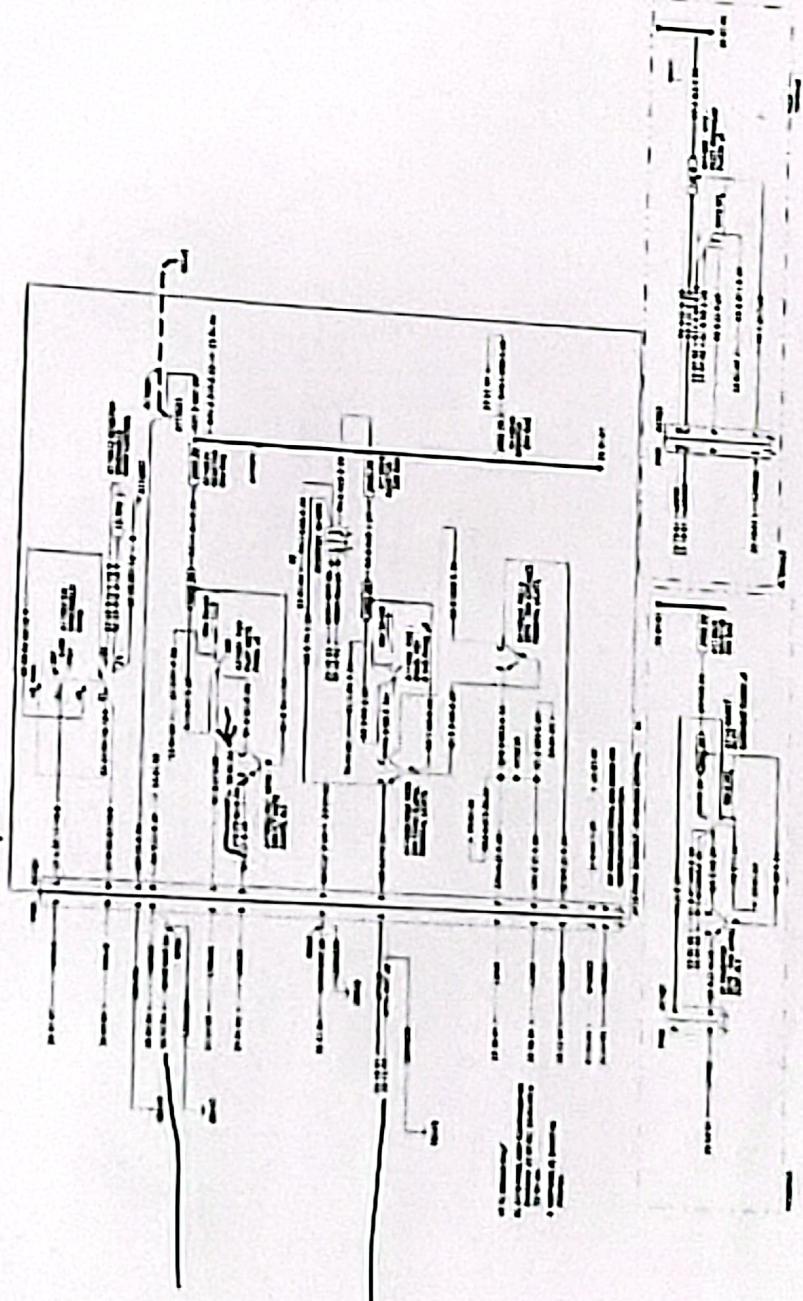
PANEL ASSEMBLY - OVERHEAD CONTROL

**Beechcraft Corporation**  
SUPER KING AIR 100C, BEECHCRAFT FUSION KINGSTON DIAMOND MOUNTAIN

P405 Allo5'

wolfs

FAILED



PANEL ASSEMBLY - OVERHEAD CONTROL  
FL1077 FL1080 FL1083 FL1087 FL1089

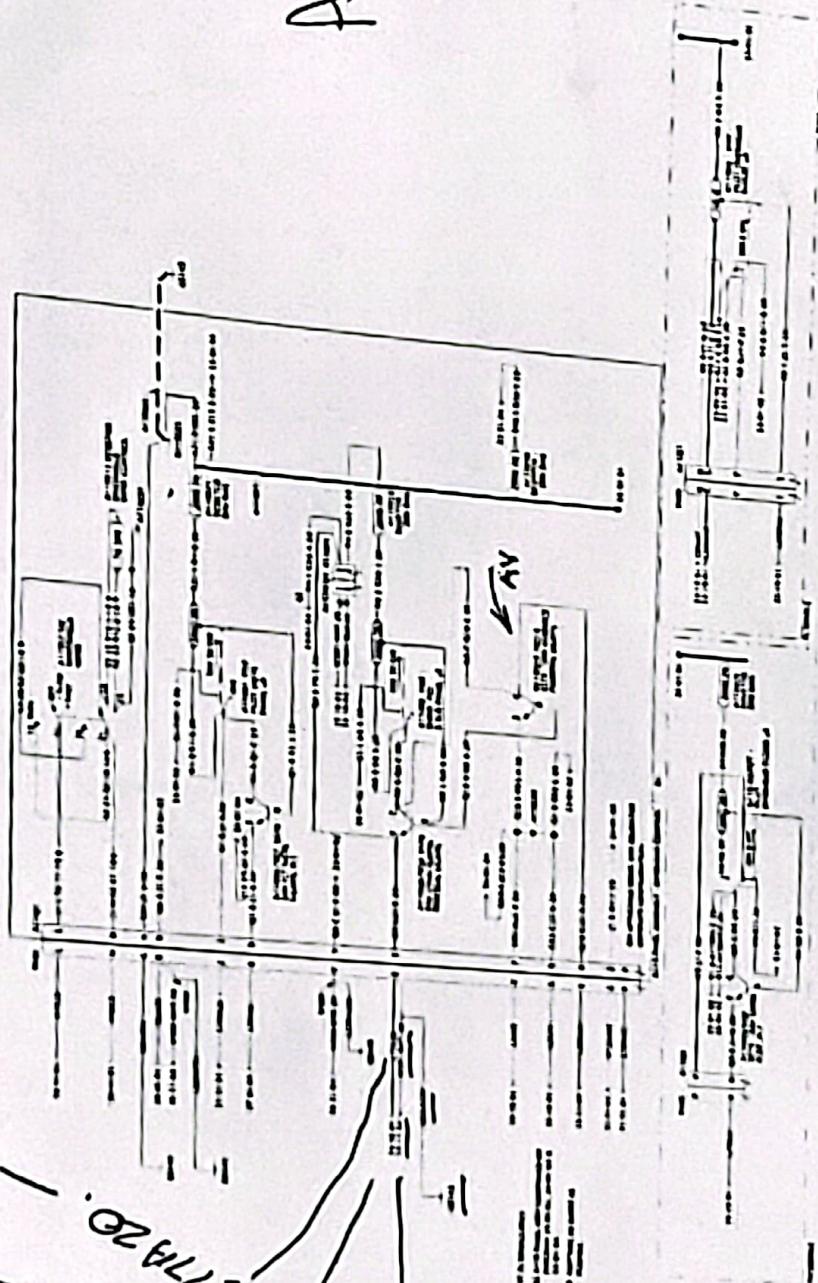
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**33-01-01-02E**  
PAGE 1  
APR 01/16

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SUPER KING AIR MODEL 100-200-300 FUSION WITH NO DILUTION WHEEL

The graph illustrates a strong positive linear correlation between the two variables. The data points, represented by small vertical tick marks along the line, show a clear upward trend from left to right.

El. (m.s.m.)	Elevation (m.s.m.)
0	0
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000



PART ASSEMBLY - OVERHEAD CONTROL  
FL1077R1000-FL0899, FL10071-FM0720

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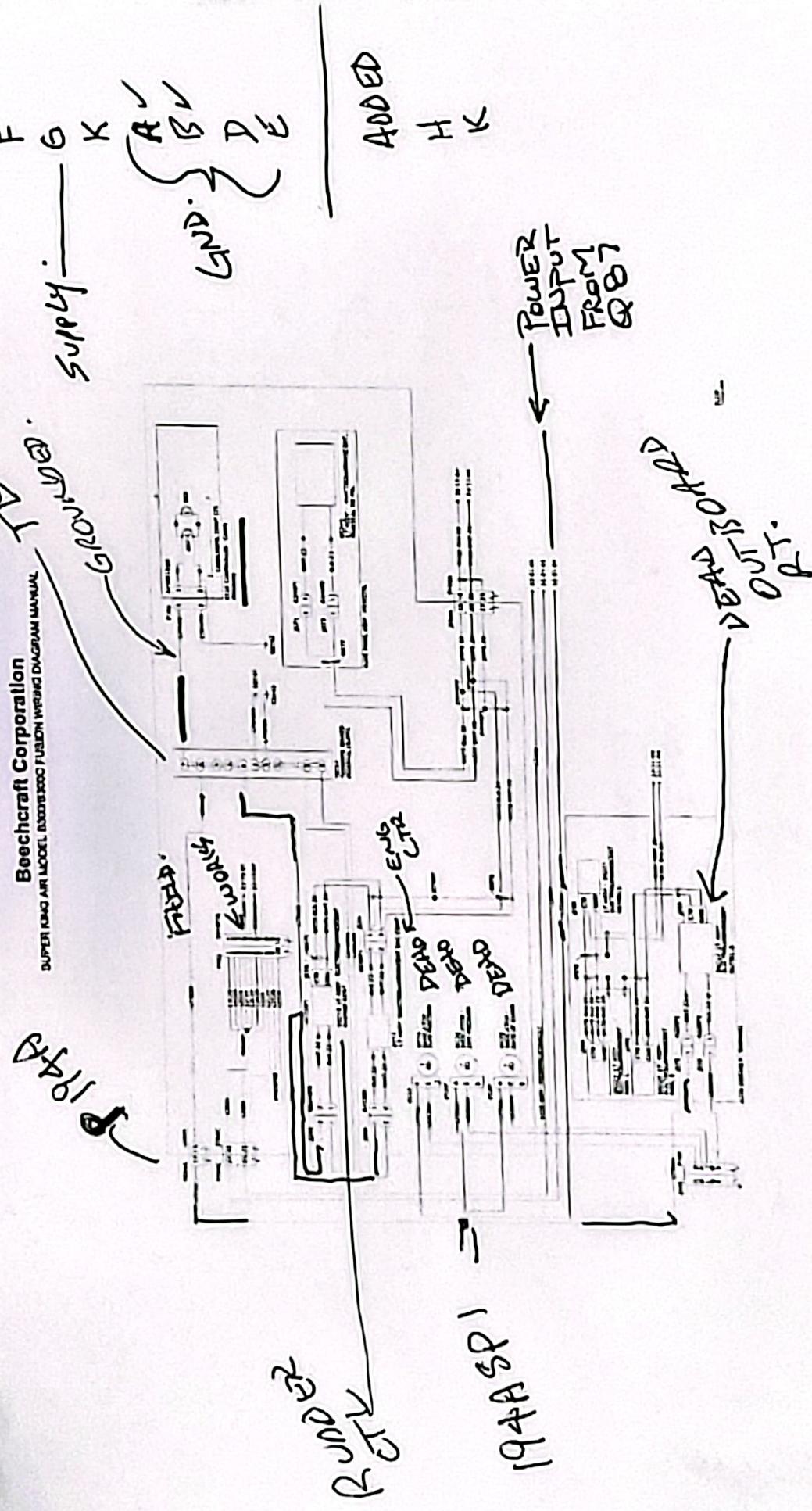
**33-01-01-02E**  
PAGE 1  
APR 01 1964

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**Beechcraft Corporation**  
NORTH AMERICAN FLIGHT EQUIPMENT DIVISION

DRAFTING AND MODEL BUILDING

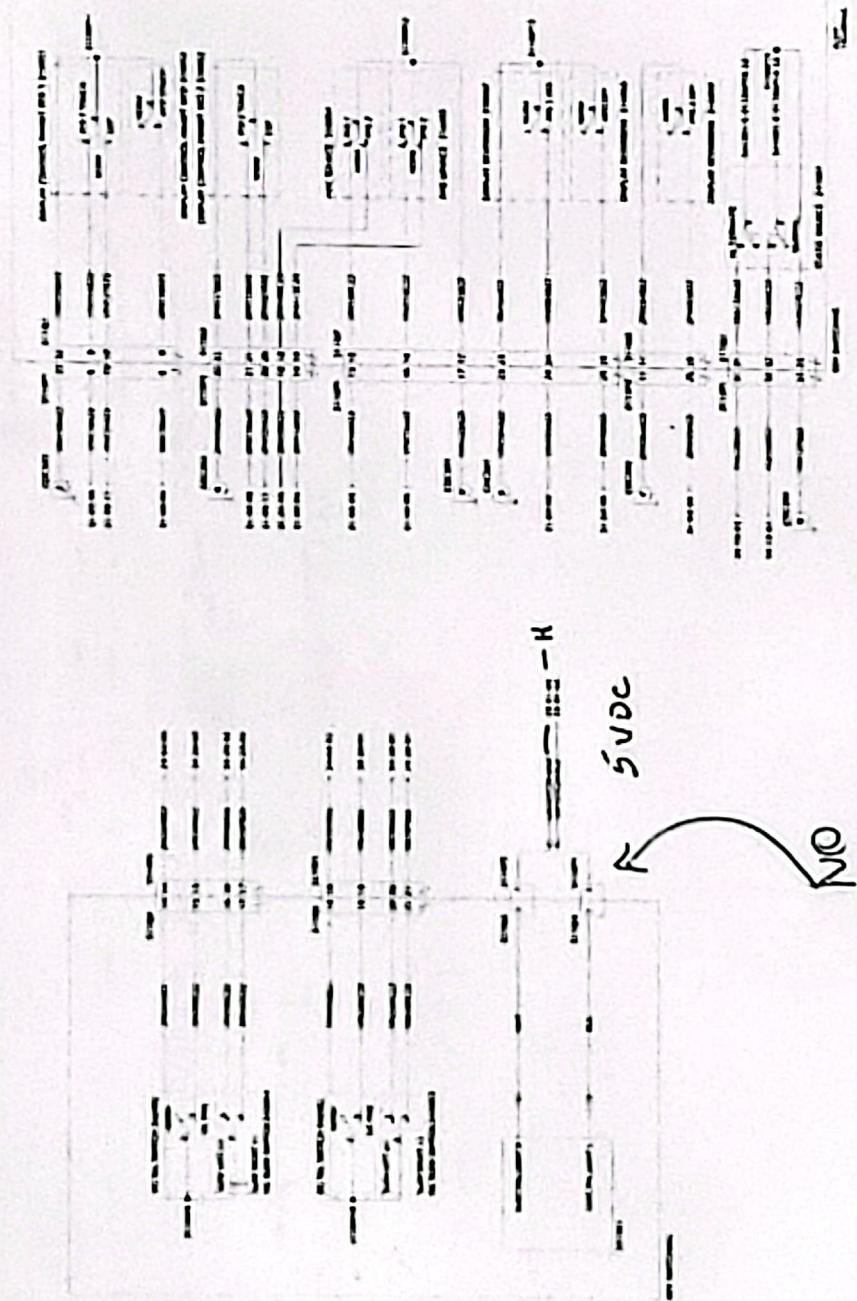


**OVERHEATED SUGAR-REFINED ! CONCENTRATED SUGAR**

33-16-01-02E  
PAGE 1  
APR 01/11

CENTER REVERIONARY  
SWITCH PANEL.

Beechcraft Corporation  
SUPER KING AIR MODEL B200C FUSION WING POSITION



REVERSIONARY SWITCHES

WING POSITION

31-10-02-00A  
PAGE 1  
APR 0110

**Beechcraft Corporation**

**Beechcraft Corporation**

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110G1XG1  
E 133-01-04

33106MJD

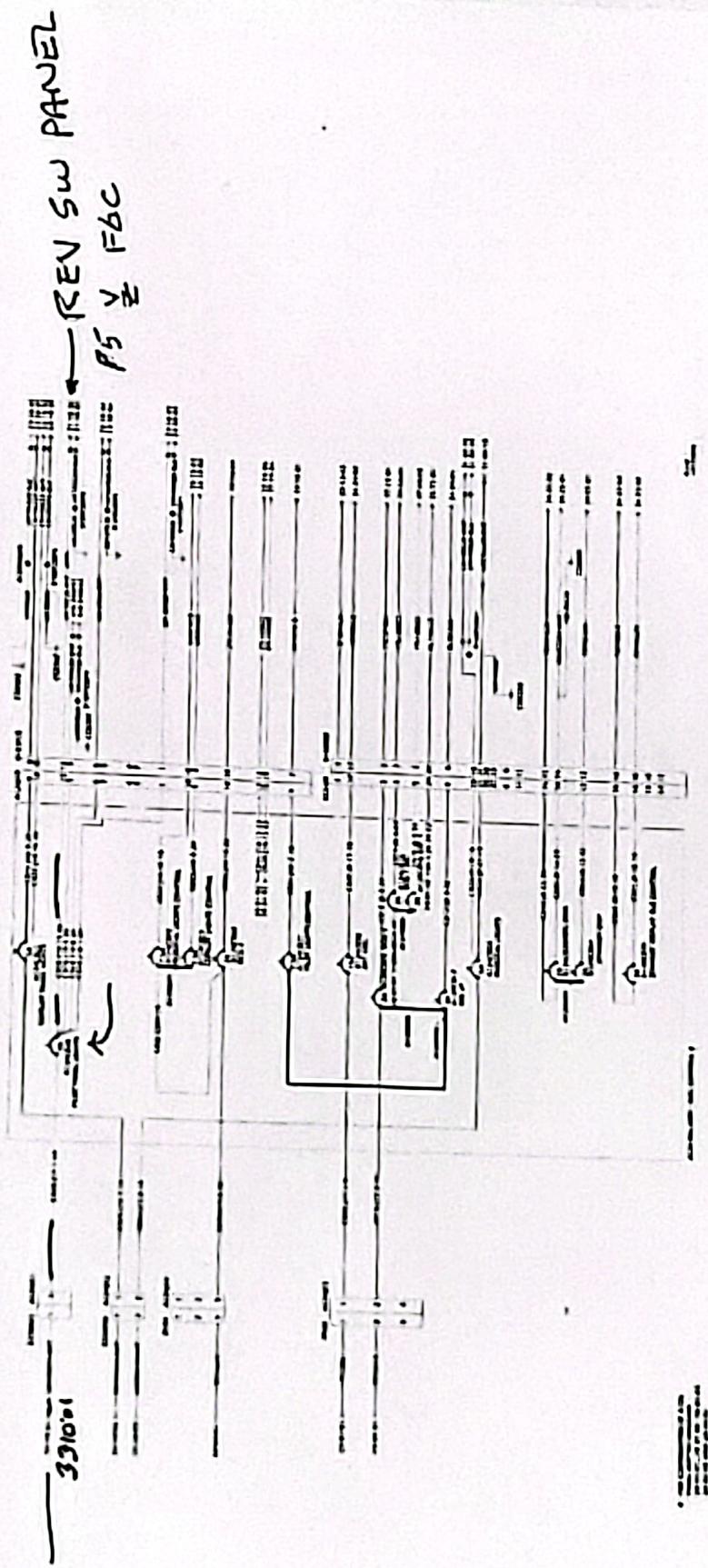
PLOT INSTRUMENT PANEL POWER SUPPLY

1308

**33-10-01-00A** PAGE 1 APPROVED

**Boeing Corporation**  
SUPER KING AIR MODEL 800/100 FUSION WIRING DIAGRAM MANUAL.

WHAT IS 406X3?  
434-3406X3?



PANEL ASSEMBLY - FUEL CONTROL

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卷之三

RUDOLF GUDWICZ PAVEL

32000

**22-10-04-00A**  
PAGE 1  
APR 01 19

WORKS:

1. P\$1, P\$2, P\$3 ARE GOOD.
2. P\$3 CIRCUIT IS GOOD,  
COPILOT MFD CTL, AVS DIM WORKS.

FAILED:

1. PILOT MFD CTL, AVS DIM NOT

## FLIGHT COMPARTMENT - DESCRIPTION AND OPERATION

### 1. Description

#### A. Annunciator Lights

The annunciator lights consist of the lights associated with the central warning system. On the overhead panel is a press-to-test switch to test the annunciator lights and the pilot's and copilot's red warning and yellow caution flashers.

#### B. Instrument Indirect Lights

The instrument indirect lights consist of eight lamps mounted under the glareshield to illuminate the instrument panel. In normal in-flight operation, the instrument indirect lights are powered from the triple fed bus through the INSTR INDIRECT circuit breaker (Ref. Figure 1) located on the right circuit breaker panel. The lights can be dimmed through the INSTR INDIRECT potentiometer located on the overhead control panel.

Four of the instrument indirect lights can also be controlled by the INSTRUMENT EMERGENCY LIGHTS switch located on the overhead instrument panel. Emergency power is furnished through the ENTRY LIGHTS circuit breaker located on the fuel control panel. The power source can be either the hot battery bus or the triple fed bus through the FUEL PANEL circuit breaker located on the main power distribution panel.

#### C. Side Panel Lights and Overhead Floodlights

The side panel lights and the overhead floodlights are powered from the R GEN bus through the PLT FLT SIDE PNL circuit breaker (Ref. Figure 2) located on the right circuit breaker panel. Power to the overhead floodlights is direct from the dimmer control. Power to the side panel lights is switched through the MASTER PANEL LIGHTS switch located on the overhead control panel.

The dimness of the pilot and copilot overhead floodlights is controlled through the PILOT OVHD FLOOD and COPILOT OVHD FLOOD potentiometers located on the overhead control panel.

The side panel lights can be dimmed through the SIDE PANEL potentiometer located on the overhead control panel. The side panel lights include the right circuit breaker panel edgelight, the upper and lower fuel panel edgelights and the lights which illuminate the fuel quantity gauges.

#### D. Overhead, Subpanel and Console Lights

The overhead, subpanel and console lights are powered from the R GEN bus through the SUBPNL OVHD & CONSOLE circuit breaker (Ref. Figure 3) located on the right circuit breaker panel. Power is switched to the lights by the MASTER PANEL LIGHTS switch located on the overhead control panel. The lights can be dimmed by the OVHD PED & SUBPANEL potentiometer located on the overhead control panel. Lights controlled by this system include edgelights on the overhead control panel, overhead instrument panel, pedestal switch panel, rudder control panel, engine control panel, and on the subpanels. In addition, the system controls the magnetic compass light, the instruments on the overhead instrument panel, the instruments on the pedestal/console, and various avionics lights as determined by the particular airplane equipment.

#### E. Edgelighted Panel Assemblies

The edgelighted panel assemblies consist of an outer plastic panel and a printed circuit board to which wheat lights are soldered. These panel assemblies are mounted strategically throughout the crew compartment to identify the function and mode of the various switches and systems. The inscriptions on the outer, counterbored, plastic panel of the edgelighted assemblies are illuminated by wheat light lamps soldered in parallel to a printed circuit board and powered by 28 vdc. Due to the fact that edgelighted panels can be damaged by inappropriate maintenance practices and contamination, usually moisture resulting from spills or storm windows left open in moist environments, they must be removed and visually inspected at the interval specified in Chapter 05.

#### F. Lamp Replacement Guide

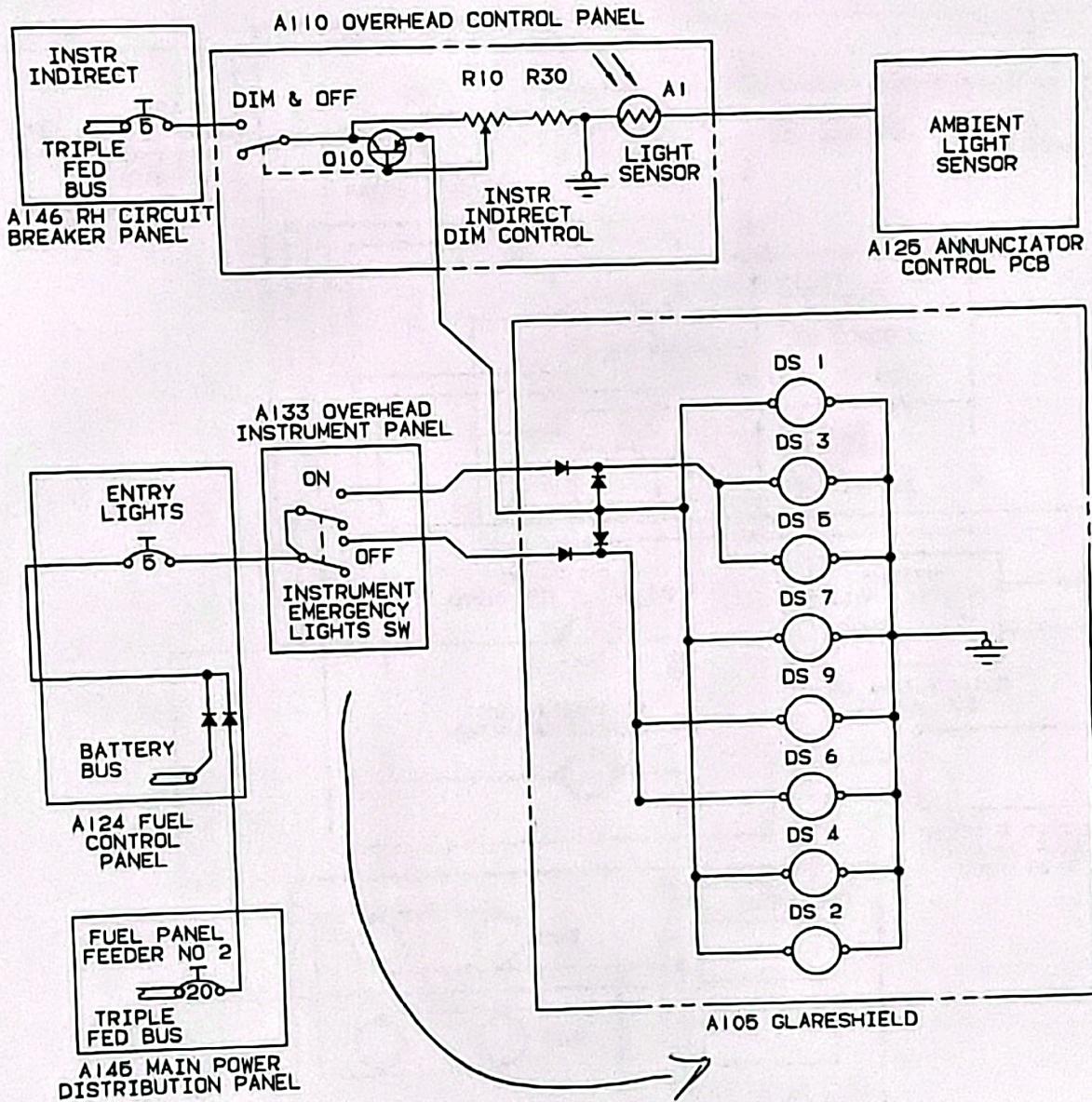
Make sure that the correct replacement lamp is used. The lamp number can usually be obtained from the base of the lamp itself, or check the LAMP REPLACEMENT GUIDE (Ref. Table 1). Visually inspect the new lamp for quality manufacture. Lamps should be discarded if the glass envelope is distorted or not aligned with the lamp base.

Table 1. Lamp Replacement Guide - Flight Compartment

LOCATION	REF. DES	PART NO.
Glareshield Indirect Lamps	A105DS1 thru A105DS10	1864
Landing Gear Control Handle Lamps	A100DS1, A100DS2	327
Master Warning Lamps	A105DS15DS1 thru A105DS15DS4A105DS16DS1 thru A105DS16DS4	387

Master Caution Lamp	A105DS17DS1 thru A105DS17DS4A105DS18DS1 thru A105DS18DS4	387
Engine Control Edgelight	A113	D158-100-5
Fuel Quantity Indicator Light Tray	A124DS3, A124DS4	6838
Engine Fire Ext. Sw. Lamp	A161S1DS1 thru A161S1DS4A162S1DS1 thru A162S1DS4	MS25327-327
Firewall Shutoff Sw. Lamp	A163S1DS1 thru A163S1DS4A164S1DS1 thru A164S1DS4	MS25327-327
Clock Edgelight	A211A1DS1, A212A1DS1	D158-100-5
Lower Fuel Panel Edgelight	A124DS123	D158-100-5
Upper Fuel Panel Edgelight	A124DS124	D158-100-5
Overhead Flood Lights	DS197, DS198	303
Magnetic Compass Light	DS215	327
Right Inboard Subpanel Edgelight	DS220	D158-100-5
Left Outboard Subpanel Edgelight	DS221	D158-100-5
Right Outboard Subpanel Edgelight	DS222	D158-100-5
Left Inboard Subpanel Edgelight	DS223	D158-100-5
Glareshield Placard Edgelight	DS224	D158-100-5
Right CB Panel Edgelight	DS234	D158-100-5
Pedestal Sw. Panel Edgelight	DS245	D158-100-5
Ovhd. Cont. Edgelight	DS250	D158-100-5
Cabin Press Cont. Lights	E122DS1, E122DS2	327

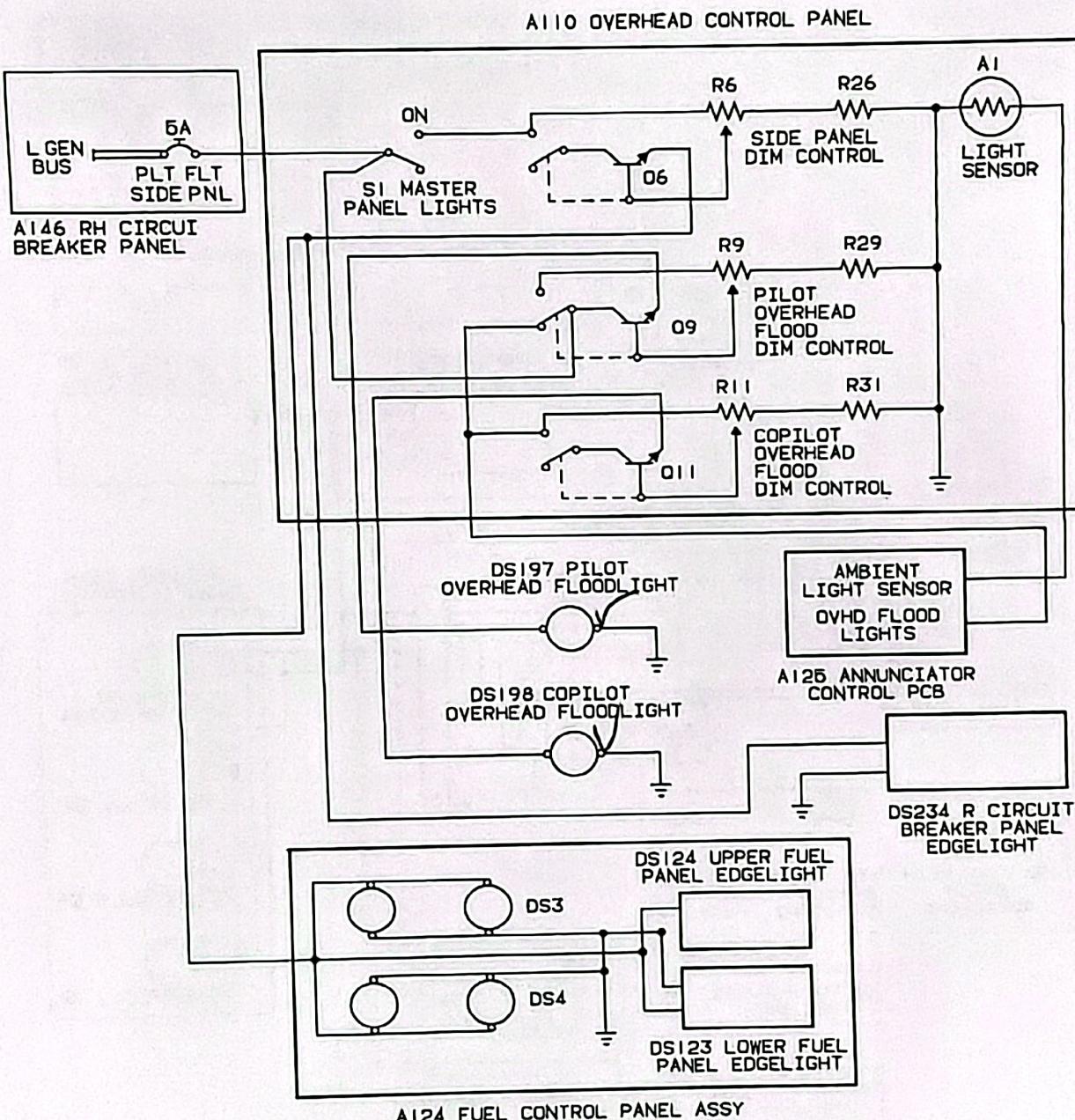
Figure 1 : Sheet 1 : Instrument Indirect Lights Schematic



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Figure 2 : Sheet 1 : Side Panel Lights and Overhead Floodlights Schematic

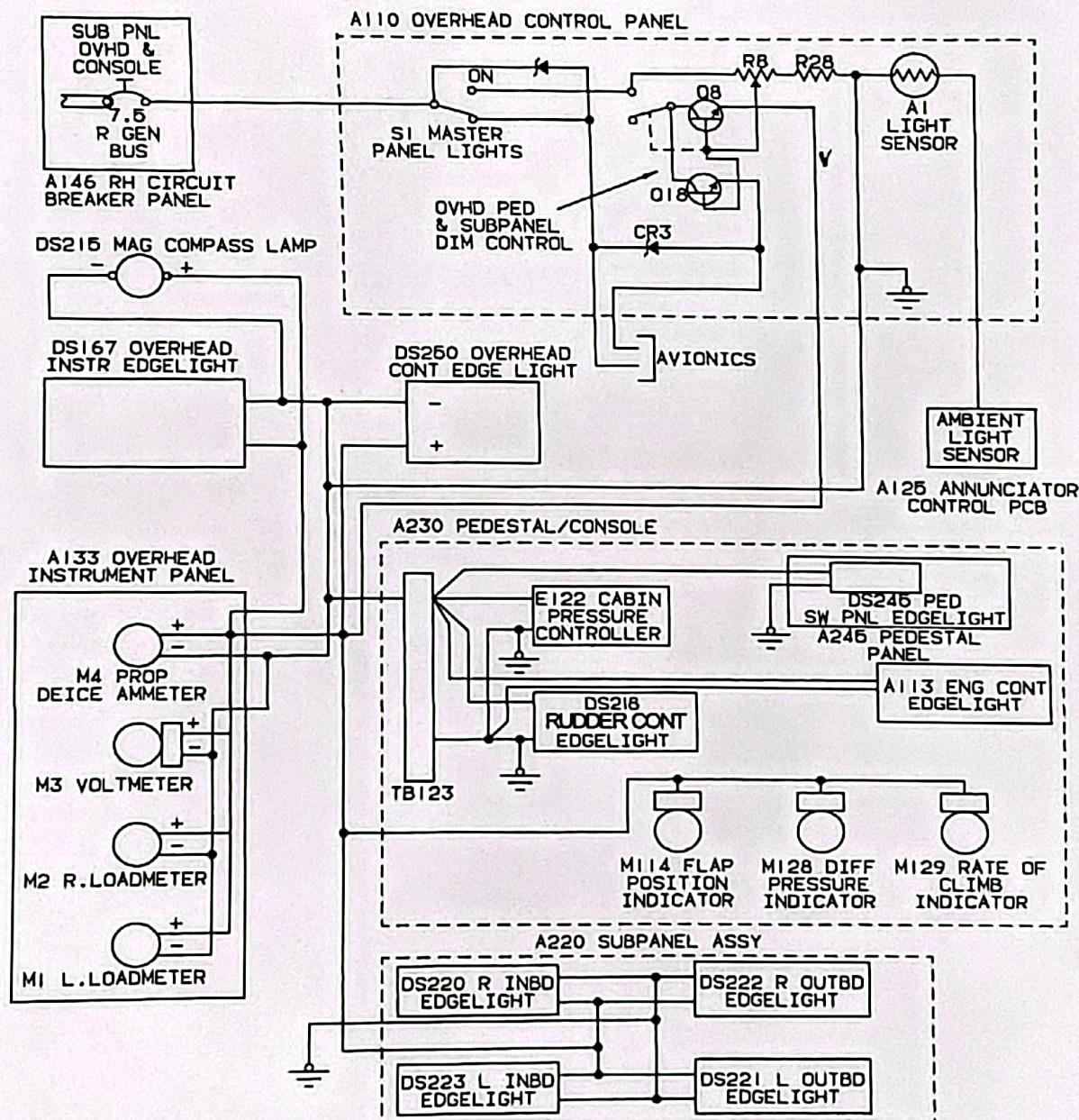
3163



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Figure 3 : Sheet 1 : Overhead, Subpanel and Console Lights Schematic

E/3164



FL13B  
143218AA.PDF

## 1. 5 vdc Power Supply (LT-55(C)) - REMOVAL/INSTALLATION

The three 5 vdc power supplies (LT-55(C)) are located in the right nose avionics bay (Ref. Figure 401).

### A. Removal

- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (3) Remove the right avionics compartment door.
- (4) Perform the GLOBAL POSITIONING SYSTEM RECEIVER (GPS-4000A/S) REMOVAL procedure (Ref. 34-52-01, 401).
- (5) Identify, tag and disconnect the electrical connector from the rear of appropriate power supply. Install protective caps on all connectors.
- (6) Remove the two screws, lockwashers and washers securing the power supply to the shelf.
- (7) Remove the two washers under the power supply from the shelf.

### B. Installation

- (1) Place the two washers over the airplane's shelf holes.
- (2) Align the power supply's mounting holes with airplane's shelf holes.
- (3) Secure the power supply to airplane shelf with two screws, lockwashers and washers.
- (4) Remove the protective caps from the connectors. Connect the electrical connector to the rear of appropriate power supply. Remove the tags.
- (5) Perform the GLOBAL POSITIONING SYSTEM RECEIVER (GPS-4000A/S) INSTALLATION procedure (Ref. 34-52-01, 401).
- (6) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201) and remove the caution tags.
- (7) Check that the power supply lights the cockpit 5 vdc panel lights for its respective cockpit display or control.
- (8) Install the left avionics compartment door.

## High-Current Complementary Silicon Transistors

... for use as output devices in complementary general purpose amplifier applications.

- High DC Current Gain —  $h_{FE} = 1000$  (Min) @  $I_C = 20$  Adc
- Monolithic Construction with Built-in Base Emitter Shunt Resistor
- Junction Temperature to  $+200^\circ\text{C}$

PNP  
**MJ11013**

**MJ11015**

NPN

**MJ11012**

**(MJ11014)**

**MJ11016\***

11012

\*Motorola Preferred Device

30 AMPERE  
DARLINGTON  
POWER TRANSISTORS  
COMPLEMENTARY  
SILICON  
60-120 VOLTS  
200 WATTS



CASE 1-07  
TO-204AA  
(TO-3)

### MAXIMUM RATINGS

Rating	Symbol	MJ11012	MJ11013 MJ11014	MJ11015 MJ11016	Unit
Collector-Emitter Voltage	$V_{CEO}$	60	90	120	Vdc
Collector-Base Voltage	$V_{CB}$	60	90	120	Vdc
Emitter-Base Voltage	$V_{EB}$		5		Vdc
Collector Current	$I_C$		30		Adc
Base Current	$I_B$		1		Adc
Total Device Dissipation @ $T_C = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$ @ $T_C = 100^\circ\text{C}$	$P_D$		200 1.15		Watts W/C
Operating Storage Junction Temperature Range	$T_J, T_{slg}$		-55 to +200		°C

### THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	0.87	°C/W
Maximum Lead Temperature for Soldering Purposes for $\leq 10$ Seconds.	$T_L$	275	°C

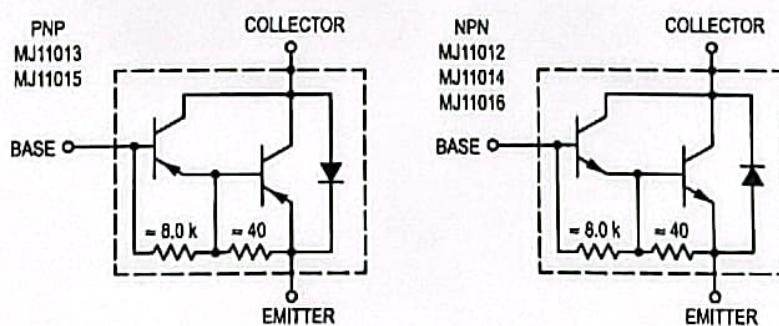


Figure 1. Darlington Circuit Schematic

Preferred devices are Motorola recommended choices for future use and best overall value.

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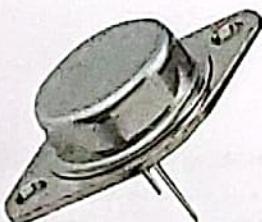
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**MOTOROLA**

# Transistor NPN, TO-3

**multicomp**



## Features:

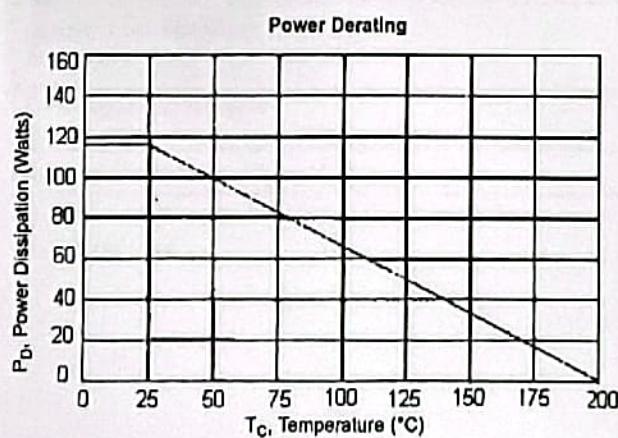
- Power dissipation -  $P_D = 115W$  at  $T_c = 25^\circ C$
- DC current gain  $h_{FE} = 20 \sim 70$  at  $I_C = 4A$
- $V_{CE(Sat)} = 1.1V$  (max.) at  $I_C = 4A$ ,  $I_B = 400mA$
- Designed for use in general-purpose amplifier and switching applications

## Maximum Ratings

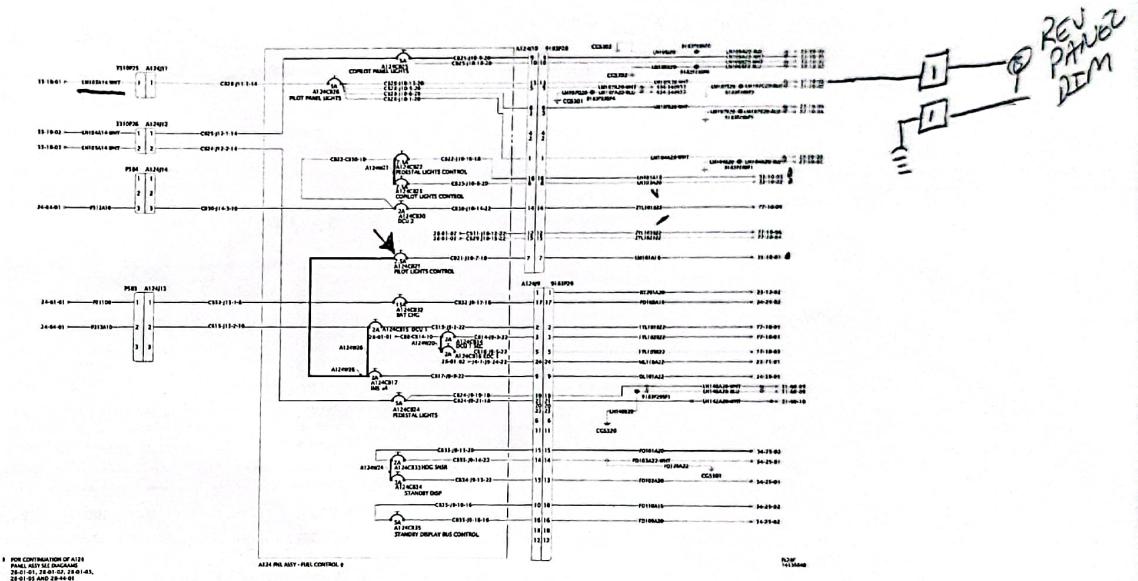
Rating	Symbol	Value	Unit
Collector-Emitter Voltage	$V_{CEO}$	60	V
Collector-Emitter Voltage	$V_{CEX}$	70	
Collector-Base Voltage	$V_{CBO}$	100	
Emitter-Base Voltage	$V_{EBO}$	7	
Collector Current-Continuous	$I_C$	15	A
Base Current	$I_B$	7	
Total Device Dissipation at $T_C = 25^\circ C$ Derate above $25^\circ C$	$P_D$	115 0.657	W W/ $^\circ C$
Operating and Storage Junction Temperature Range	$T_J, T_{Sto}$	-65 to +150	$^\circ C$

## Thermal Characteristics

Characteristics	Symbol	Max.	Unit
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	1.52	$^\circ C/W$



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SUPER KING AIR MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



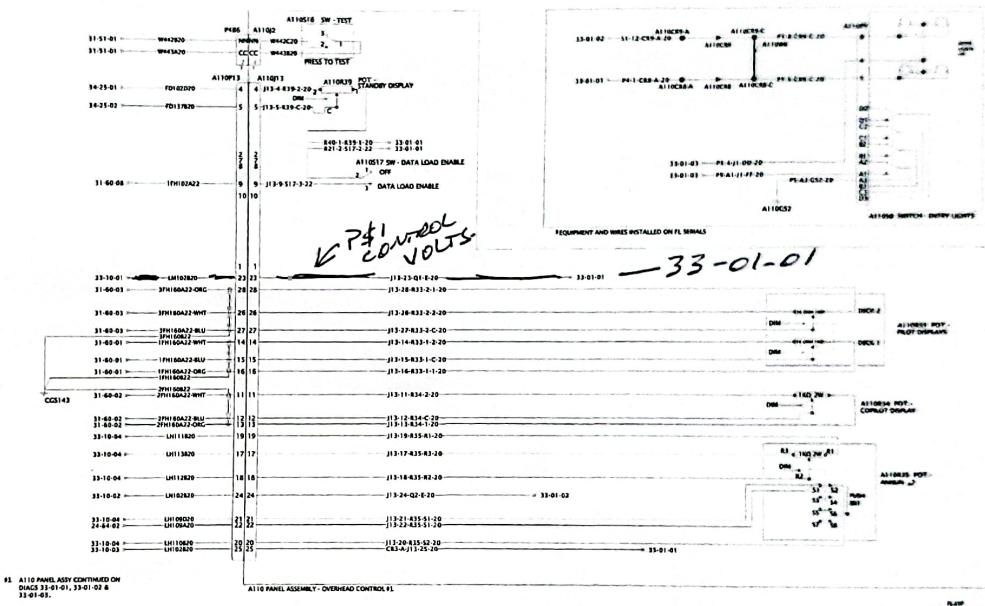
## PANEL ASSEMBLY - FUEL CONTROL

B300/B300C

28-01-04-00E  
PAGE 1  
APR 01/18

SV P\$  
POWER.

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SUPER KING AIR MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



PANEL ASSEMBLY - OVERHEAD CONTROL

B300/B300C

**33-01-04-00E**  
PAGE 1  
APR 01/18

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"ELECTRICAL WIRE DIAG."  
FL 383 TO FL 537.

## FUEL CONTROL PANEL ASSY

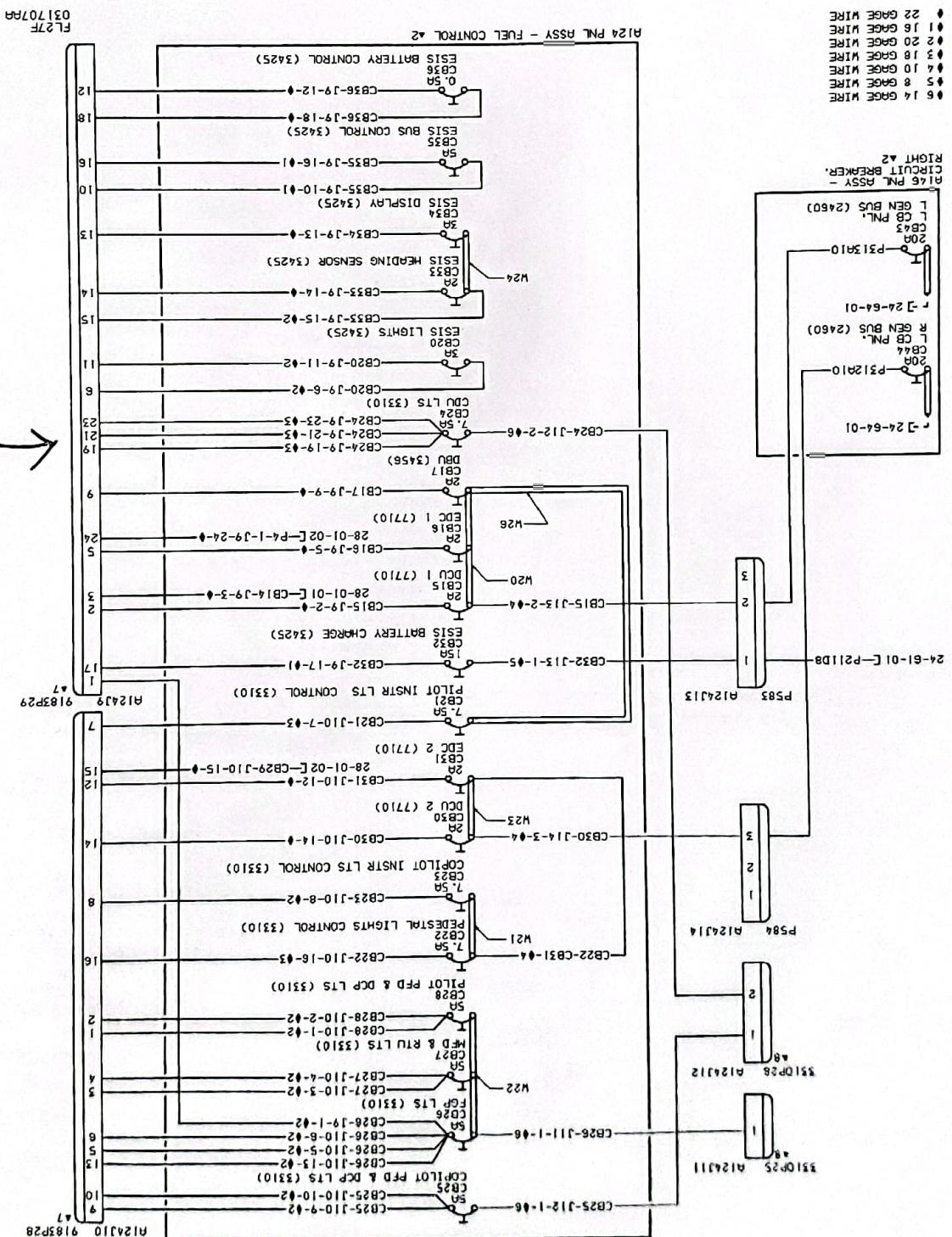


Figure 00 : Sheet 1 : LIGHTING SYSTEM

