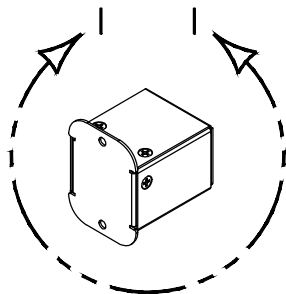
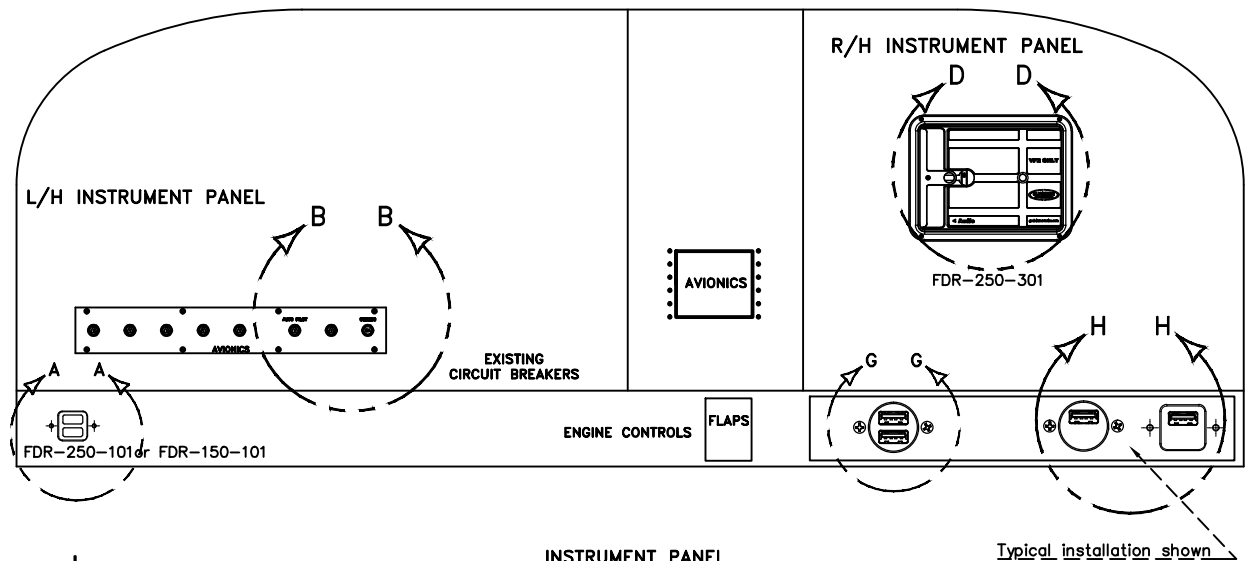


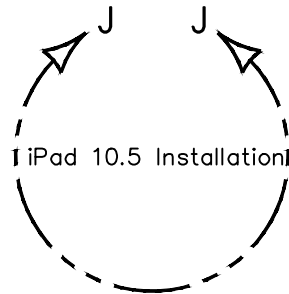
# NOTES:

- EXISTING EQUIPMENT.
- PERMISSIBLE TO TRIM PARTS CREATED BY THIS DRAWING ON INSTALLATION AS REQUIRED.
- TOUCH UP ALL BARE ALUMINUM SURFACES WITH ALODINE PER MIL-C-5541 CLASS 3.
- PARENTHETICAL ENTITIES, ( ), ARE FOR REFERENCE ONLY.
- LOCATE CIRCUIT BREAKER IN THE SAME GENERAL AREA WITH EXISTING CIRCUIT BREAKERS. LABEL AS SHOWN USING STANDARD ENGRAVING, SILKSCREEN, OR OTHER TECHNIQUES. LETTERING TO BE SAME HEIGHT AS EXISTING C/B LETTERING.
- ALL GROUNDS GO TO NEAREST GROUND POINT ON AIRCRAFT.
- TIE INTO EXISTING BUS BAR NEAR LOCATION OF NEW CIRCUIT BREAKER. IF A JUMPER WIRE IS REQUIRED, USE 20 GAUGE MIL-W-22759/XX TYPE.
- BEST COMMERCIAL EQUIVALENT MAY BE SUBSTITUTED FOR THIS PART.
- THE INSTALLATION OF WIRING TO BE PERFORMED IN ACCORDANCE WITH AC 43.13-1B, 2A, ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES - AIRCRAFT ALTERATIONS, CHAPTER 11. ALL WIRE TO BE MIL-W-22759/16 OR EQUIVALENT.

REVISIONS			
REV	DESCRIPTION	DATE	APVD
A	Initial release	06/2/2016	
B	circuit breakers changed to 2Amp	08/18/2016	
C	add round replacement page 3,5	12/17/2016	
D	add page 6 and updated H-H	03/25/2017	
E	add cooling fan options to page 4 and 7	01/06/2018	



Remote USB Power Supply

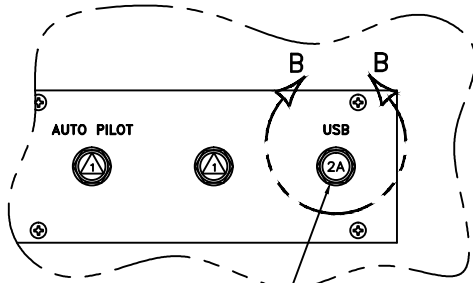


iPad 10.5 Installation

INSTRUMENT PANEL  
VIEW LOOKING FWD

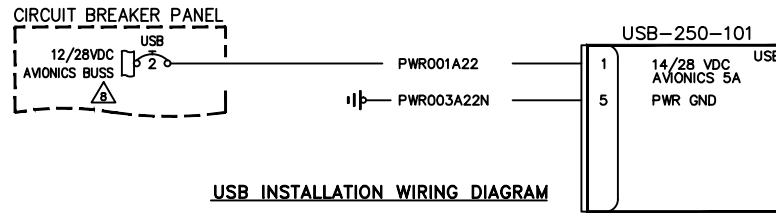
FILENAME: USBInst.dwg

① 1		USB-200-101	USB Port	GUARDIAN AVIONICS																												
ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR																												
<b>PROPRIETARY NOTICE</b>		<table border="1"> <thead> <tr> <th colspan="2">APPROVALS</th> <th>DATE</th> <th>UNLESS OTHERWISE NOTED ALL DIM ARE IN INCHES</th> </tr> </thead> <tbody> <tr> <td>DESIGN</td> <td>Ahmed Hassan</td> <td>07/7/2016</td> <td>TOLERANCES XXX ±.010 ANGLES XX ±.03 ±1/2° X ±.1</td> </tr> <tr> <td>DRAWN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECK</td> <td></td> <td></td> <td></td> </tr> <tr> <td>INSP.</td> <td></td> <td></td> <td>FINISH NONE</td> </tr> <tr> <td>PROL.</td> <td></td> <td></td> <td>SCALE NONE</td> </tr> <tr> <td>DASH</td> <td>NEXT ASSY</td> <td>REL.</td> <td>ASH VIJ 08/18/2016</td> </tr> </tbody> </table>			APPROVALS		DATE	UNLESS OTHERWISE NOTED ALL DIM ARE IN INCHES	DESIGN	Ahmed Hassan	07/7/2016	TOLERANCES XXX ±.010 ANGLES XX ±.03 ±1/2° X ±.1	DRAWN				CHECK				INSP.			FINISH NONE	PROL.			SCALE NONE	DASH	NEXT ASSY	REL.	ASH VIJ 08/18/2016
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PROL.			SCALE NONE																													
DASH	NEXT ASSY	REL.	ASH VIJ 08/18/2016																													
<small>           This drawing contains specifications and/or data, technical material, proprietary designs and information that are the sole property of C. D. Guardian, LLC, and treated by its recipient as a confidential trade, and is not to be shown or disclosed to any unauthorized organization or person.         </small>		<table border="1"> <thead> <tr> <th colspan="2">TITLE</th> </tr> </thead> <tbody> <tr> <td colspan="2">USB INSTALLATION</td> </tr> <tr> <td>DRAWING NO.</td> <td>SH 1 REV</td> </tr> <tr> <td>USB-250</td> <td>OF 7 E</td> </tr> </tbody> </table>			TITLE		USB INSTALLATION		DRAWING NO.	SH 1 REV	USB-250	OF 7 E																				
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DRAWING NO.	SH 1 REV																															
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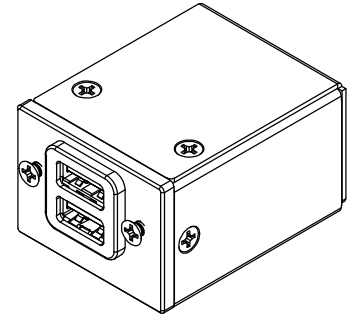
△ (P/N 7277-2-5) CIRCUIT BREAKER

**SECTION B-B**



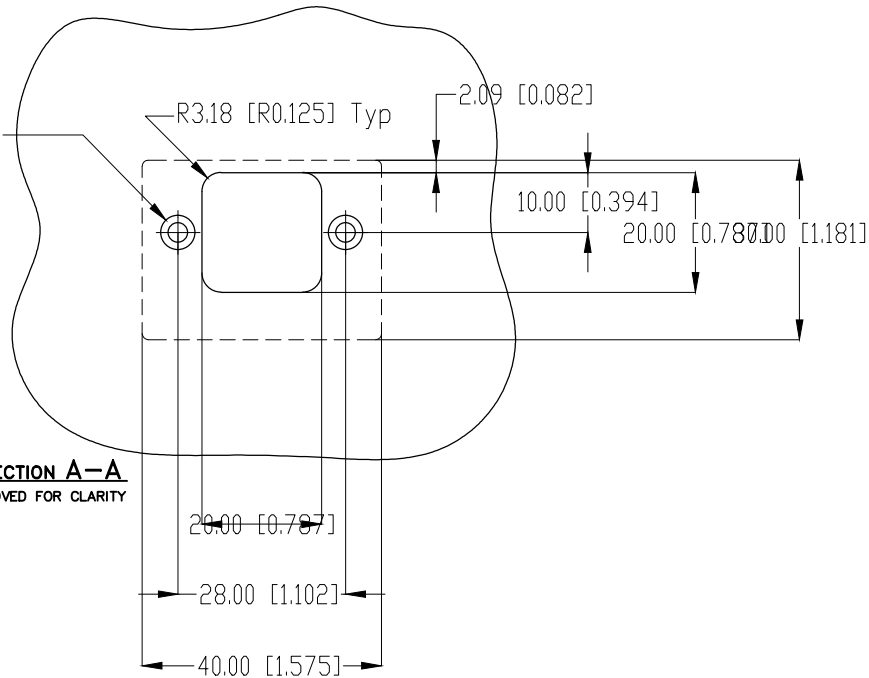
**USB INSTALLATION WIRING DIAGRAM**

USB-250-101 or USB-150-101



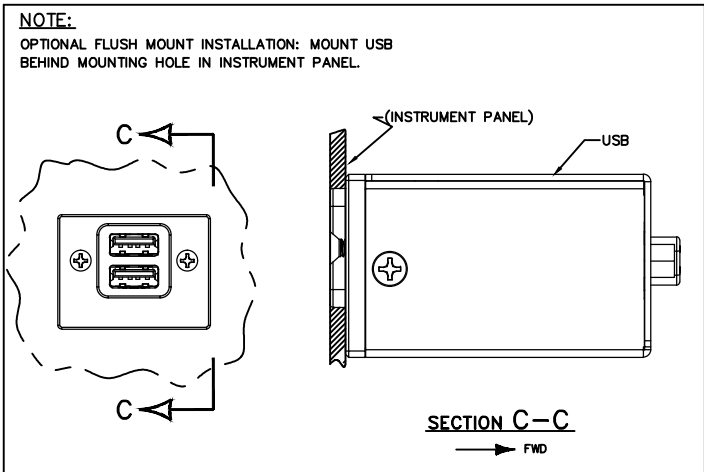
USB-250-101 shown

[#4 Countersink)  
k2X Ø5.72 THRU ALL  
∠Ø 5.72 X 82°



**SECTION A-A**  
USB REMOVED FOR CLARITY

square faceplate panel cutout installation

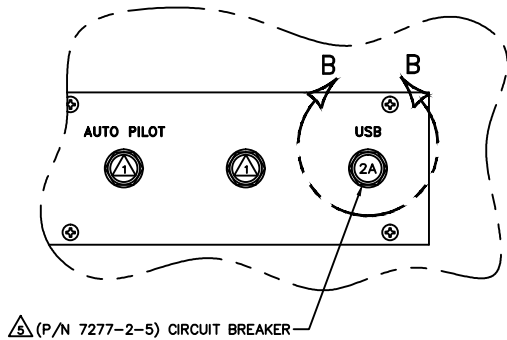


**SECTION C-C**

→ FWD

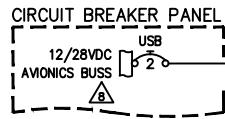
<b>GUARDIAN AVIONICS</b> <small>Your partner in the sky</small>		
TITLE <b>USB INSTL.</b>		
DRAWING NO. <b>USB-250</b>	SH 2 OF 7	REV E

FILENAME: USBInst.dwg



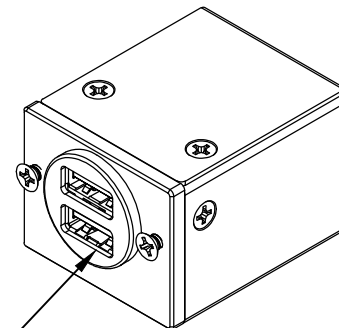
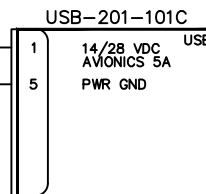
(P/N 7277-2-5) CIRCUIT BREAKER

**SECTION A-A**



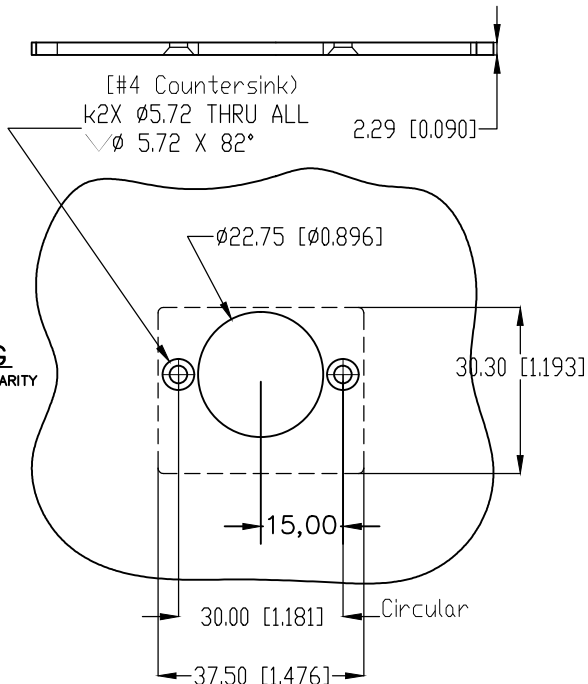
**USB INSTALLATION WIRING DIAGRAM**

USB-201-101C

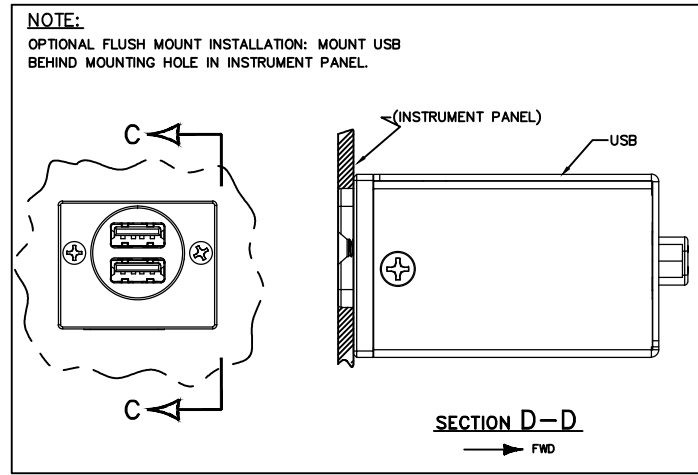


USB-201-101C shown

Cigarettes lighter round replacement (single or dual )



**SECTION G-G**  
USB REMOVED FOR CLARITY

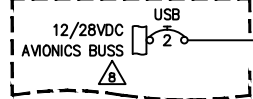


round faceplate (cigarette lighter) replacement installation

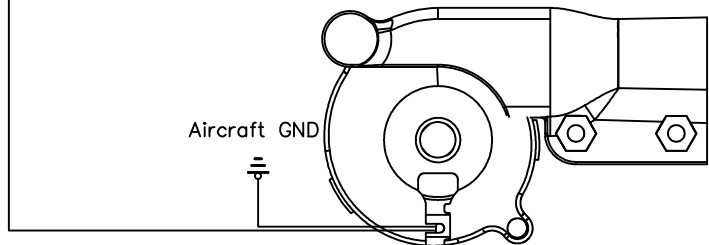
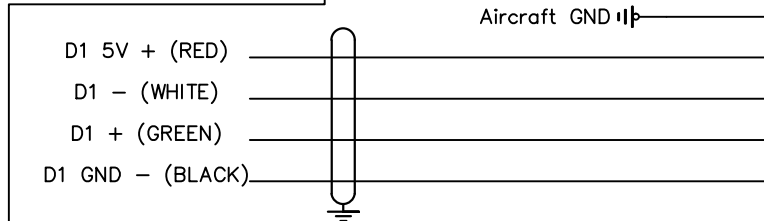
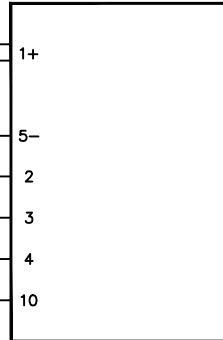
<b>GUARDIAN AVIONICS</b> <small>Your partner in the sky</small>		
TITLE <b>USB INSTL.</b>		
DRAWING NO. <b>USB-250</b>	SH OF <b>3 7</b>	REV <b>E</b>

FILENAME: USBInst.dwg

CIRCUIT BREAKER PANEL



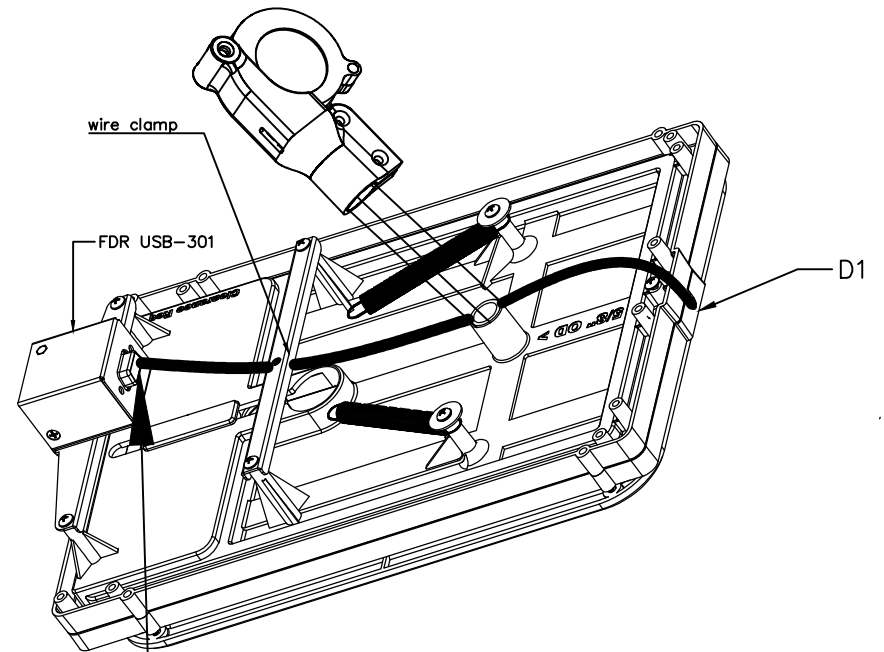
FDR-250-201 & 301



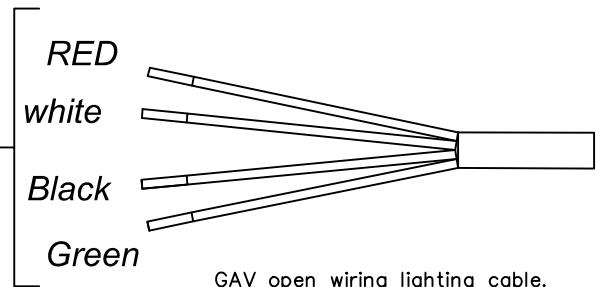
Typical optional cooling fan installation

USB INSTALLATION WIRING DIAGRAM ( REMOTE BOX )

USB150-301 INSTL



SECTION D-D

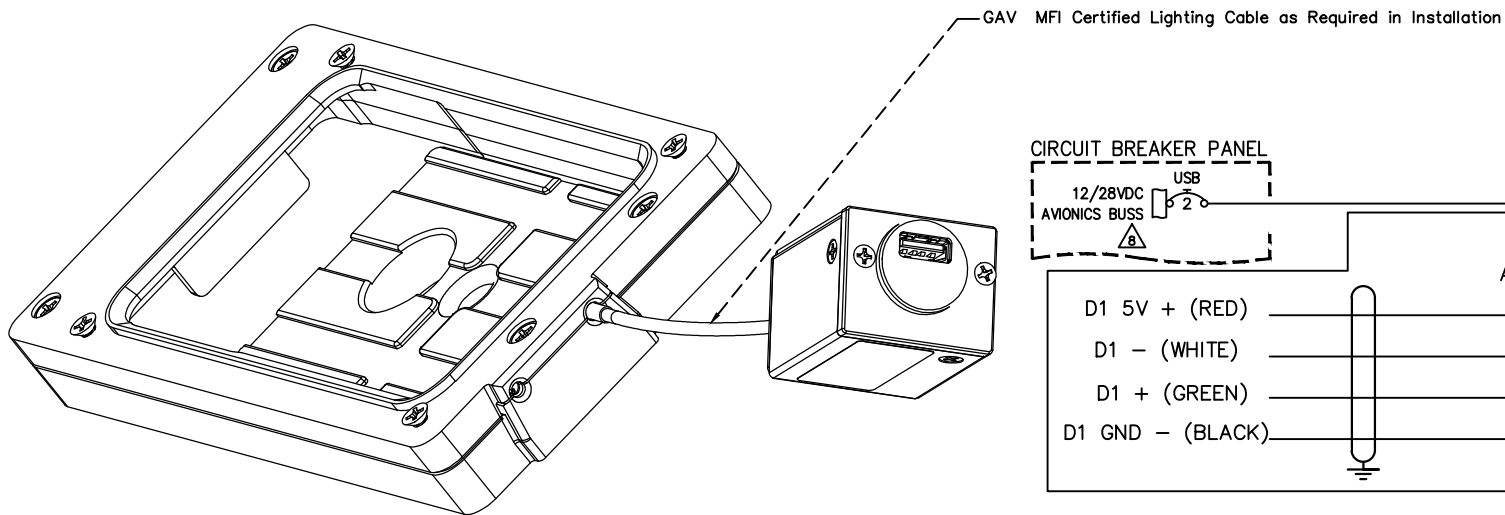


GAV open wiring lighting cable.

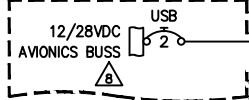
REMOTE USB POWER INSTALLATION

TITLE USB INSTL		
DRAWING NO. USB-250	SH 4 OF 7	REV E

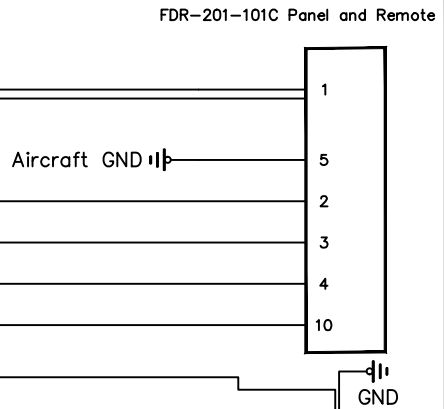
FILENAME: USB Inst.dwg



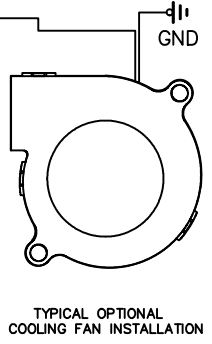
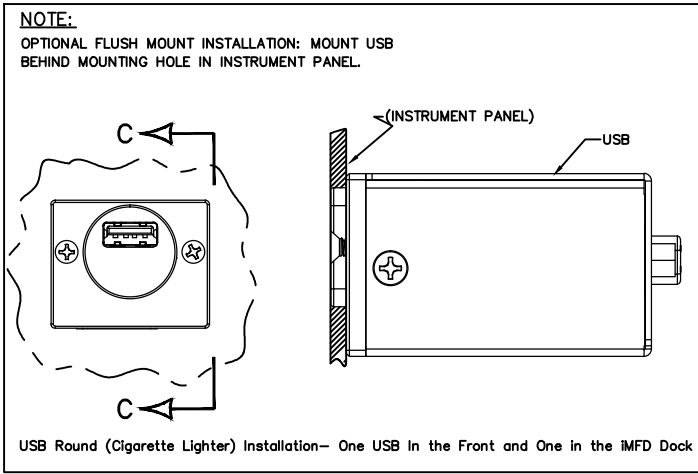
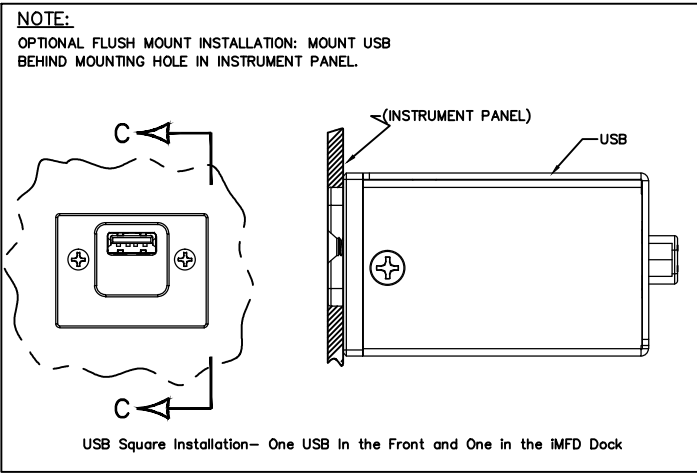
**CIRCUIT BREAKER PANEL**



- D1 5V + (RED)
- D1 - (WHITE)
- D1 + (GREEN)
- D1 GND - (BLACK)

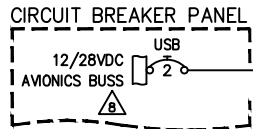


**SECTION D-D**

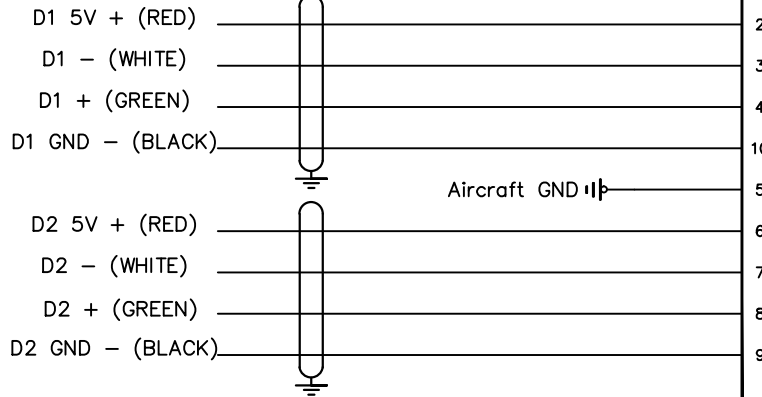


**H-H Dual Power USB Single faceplate (Square & Round)**

<b>GUARDIAN AVIONICS</b> <i>Your partner in the sky</i>		
TITLE <b>USB INSTL</b>		
DRAWING NO. <b>USB-250</b>	SH 5 OF 7	REV E

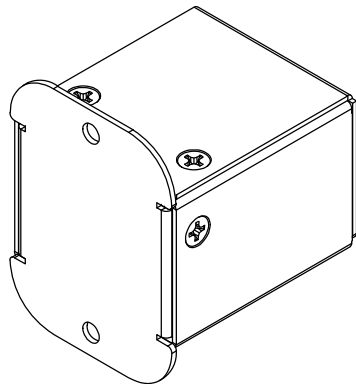


FDR-250-201 & 301



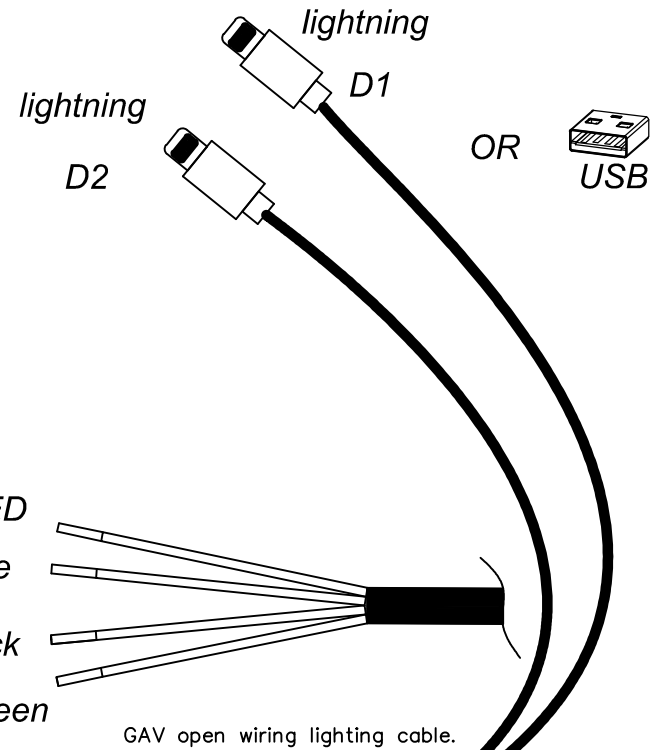
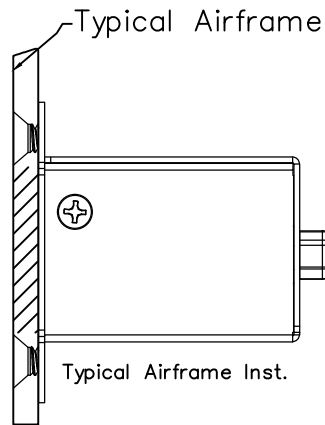
USB INSTALLATION WIRING DIAGRAM ( REMOTE BOX )

USB-250-201 & 301 INSTL



USB-250-201

SECTION 1-1



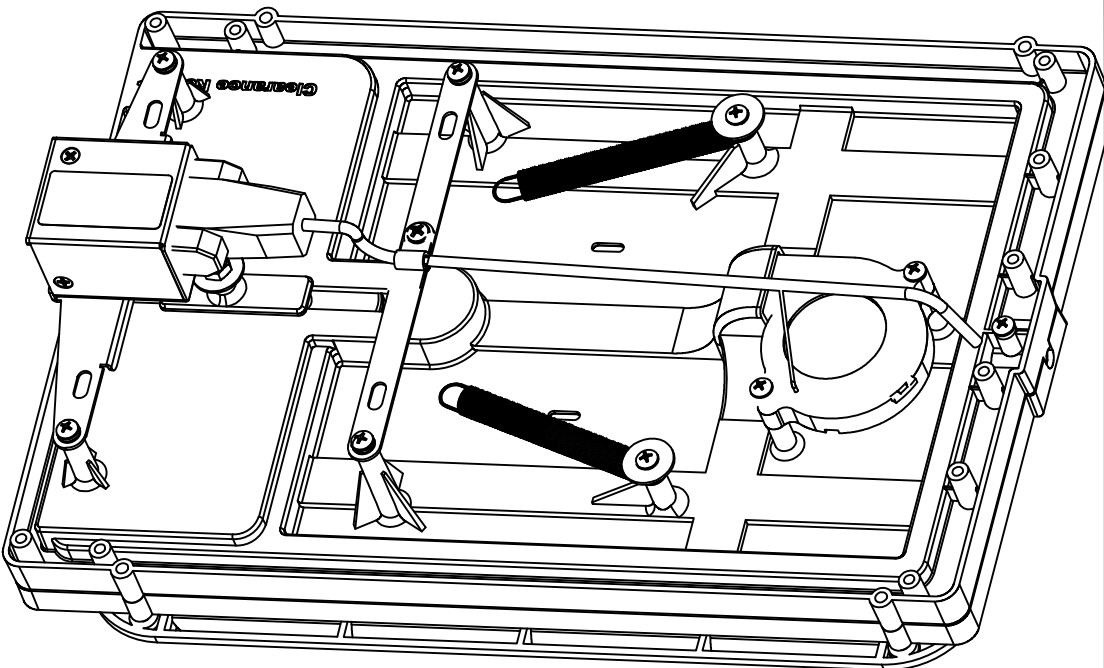
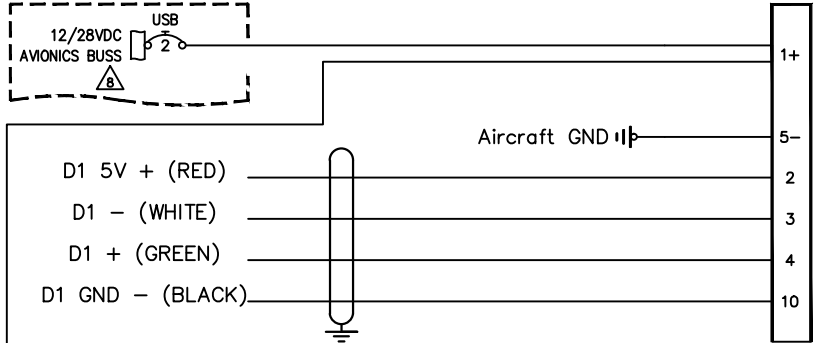
# REMOTE USB POWER INSTALLATION

FILENAME: USB Inst.dwg

<b>GUARDIAN AVIONICS</b> <small>Your partner in the sky</small>		
TITLE USB INSTL		
DRAWING NO. USB-250	SH 6 OF 7	REV E

FDR-250-201 & 301

CIRCUIT BREAKER PANEL



# SECTION J-J

typical cooling fan installation 10.5 inch iPad

USB INSTALLATION WIRING DIAGRAM ( REMOTE BOX )

USB150-301 INSTL

 "Your partner in the sky"			
TITLE USB INSTL			
DRAWING NO.	SH	REV	
USB-250	7	7	E

FILENAME: USB Inst.dwg