

NOTES: UNLESS OTHERWISE SPECIFIED

1.
- WORKMANSHIP STANDARDS AND ACCEPTABILITY REQUIREMENTS SHALL MEET IPC-A-610 (LATEST VERSION).
2.
- THIS DOCUMENT AND RELATED ARTWORK ARE COMPUTER GENERATED. CHANGES ARE TO BE PERFORMED ON THE ORIGINAL DATABASE IN SECTION 383.



SOLDER COMPONENTS USING LEADED SOLDER, ITEM 3.

4.
- CLEAN SOLDER FLUX FROM BOARD SO THAT THERE IS NO DISCERNABLE RESIDUE.



MARK IN LOCATION SHOWN WITH 1.0 mm MINIMUM HIGH CHARACTERS THE DASH NUMBER, THE REV LETTER, AND THE SERIAL NUMBER "NXXXXX" (WHERE N IS A VENDOR DESIGNATION LETTER ASSIGNED BY JPL AND XXXXX IS A UNIQUE 5 DIGIT SERIAL NUMBER FOR EACH PART. THE VENDOR DESIGNATION AND THE STARTING SERIAL NUMBER SHALL BE IN ACCORDANCE WITH THE VALUES PROVIDED IN THE PURCHASE ORDER).

6.
- FOR SCHEMATIC DIAGRAM SEE JPL DRAWING 10398569.

7.
- THIS PRINTED WIRING ASSEMBLY CONSISTS OF SURFACE MOUNT AND THOUGH-HOLE TECHNOLOGY.

REVISION HISTORY

| REV | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAT | DWN       | ENGR       | SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------------|------------------------------------------------------------------|
| A   | ----- INITIAL RELEASE -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | II  | -         | -          |                                                                  |
| B   | CHANGED WHEB CONNECTOR, P6 TO 50 PINS. ADC_CS AND SG_SWAP ARE NOW ADC_CS1 AND ADC_CS2. SG_ENA IS NOW SPARE3. FL_METER_ENA AND THERMISTOR ENABLE CHANGED TO nADC_DRDY1 AND nADC_DRDY2 RETURN SIGNALS FROM THE WHEB ADCs. CFG0 THRU CFG2 NOW ARE INPUTS FROM THE WHEB. ADDED FLASH DEVICE, U11. ADDED SPI ADDRESS DECODER, U5. ADDED 1-WIRE INTERFACE, U13. ADDED SPI PROGRAMMING SIGNALS FOR WING BOARD FPGAs. ADDED ON-BOARD 3.0V REFERENCE DEVICE, U14, AND BUFFERS, U15, AND ISOLATION TEST CIRCUITS. | II  | D. PALMER | C. SHELTON |                                                                  |

(SEE SEPARATE PARTS LIST)

|          |    |         |        |     |                           |                                              |               |                  |
|----------|----|---------|--------|-----|---------------------------|----------------------------------------------|---------------|------------------|
|          |    |         |        |     |                           |                                              |               |                  |
|          |    |         |        |     |                           |                                              |               |                  |
|          |    |         |        |     |                           |                                              |               |                  |
|          |    |         |        |     |                           |                                              |               |                  |
|          | AR | 3       |        |     | Sn63/Pb37                 | SOLDER, LEADED                               | J-STD-005A    |                  |
|          | AR | 2       |        |     | ETHONE 50-100R CATALYST 9 | INK, WHITE EPOXY                             | IPC-4781      |                  |
|          | 1  | 1       |        |     | 10398570-1                | PRINTED WIRING BOARD, EDGE SENSOR CONTROLLER |               | REV A            |
|          | -1 | ITEM NO | REFDES | DAI | PART OR IDENTIFYING NO    | NOMENCLATURE OR DESCRIPTION                  | SPECIFICATION | MATERIAL OR NOTE |
| QTY REQD |    |         |        |     |                           |                                              |               |                  |

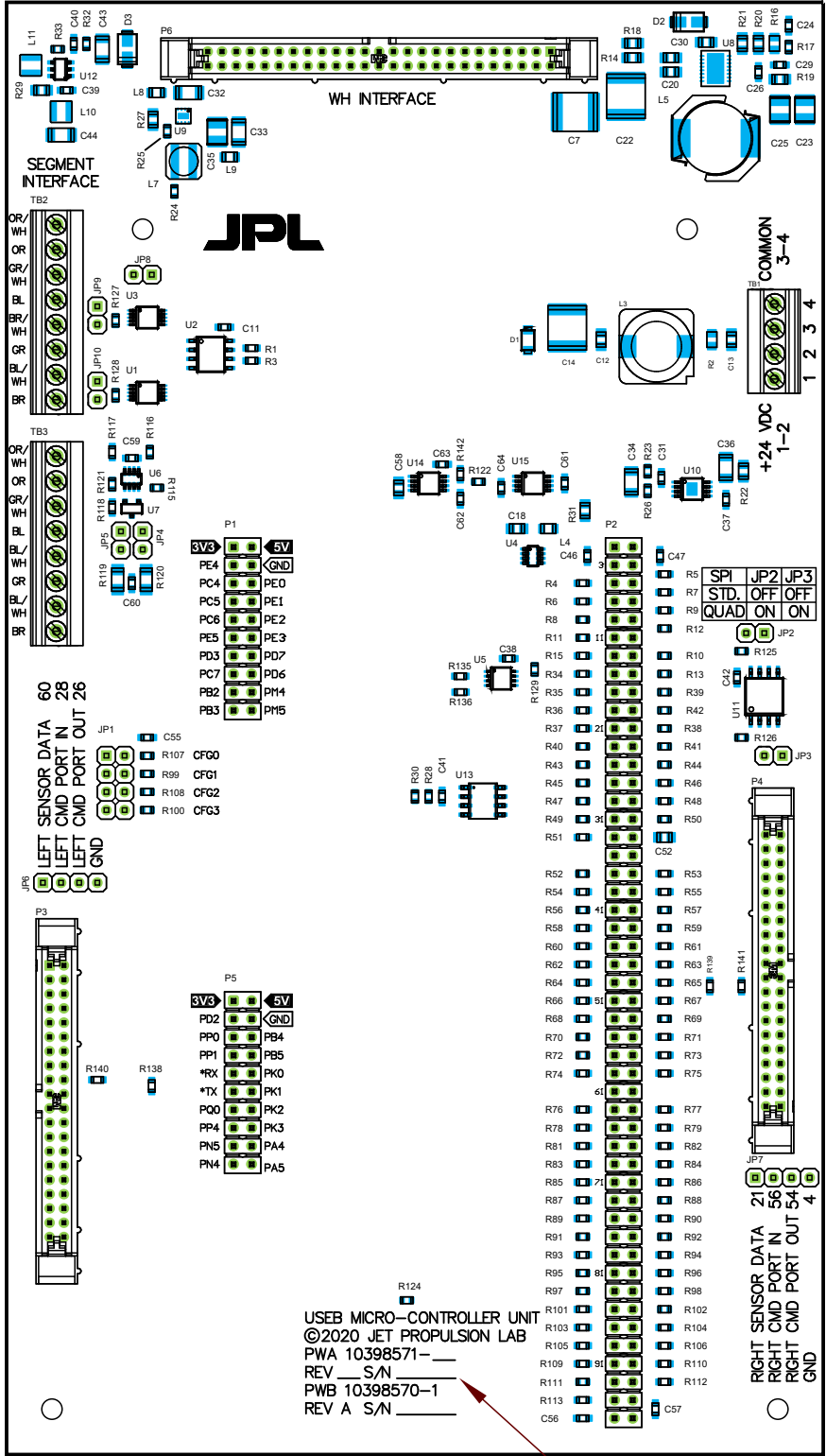
PARTS LIST

|               |         |                                                                        |            |                                                                                           |       |              |              |
|---------------|---------|------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|-------|--------------|--------------|
|               |         | CONTRACT NO _____                                                      |            | JET PROPULSION LABORATORY<br><br>CALIFORNIA INSTITUTE OF TECHNOLOGY<br>PASADENA, CA 91109 |       |              |              |
|               |         | DWN                                                                    | D. PALMER  |                                                                                           |       |              |              |
|               |         | ENGR                                                                   | C. SHELTON | TITLE<br><br>PRINTED WIRING ASSEMBLY,<br>USEB MICRO-CONTROLLER UNIT                       |       |              |              |
|               |         | SEE JPL DATA MANAGEMENT<br>SYSTEM FOR APPROVAL<br>SIGNATURES AND DATES |            |                                                                                           |       |              |              |
|               |         |                                                                        |            |                                                                                           |       |              |              |
|               |         |                                                                        |            |                                                                                           |       |              |              |
|               |         |                                                                        |            | SIZE                                                                                      | DAI   | DWG NO       | REV          |
|               |         |                                                                        |            | B                                                                                         | 23835 | 10398571     | B            |
|               | TMT     |                                                                        |            |                                                                                           |       |              |              |
| NEXT ASSEMBLY | USED ON |                                                                        |            |                                                                                           |       |              |              |
| APPLICATION   |         |                                                                        |            | SCALE: 1/1                                                                                |       | UNCLASSIFIED | SHEET 1 OF 2 |

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DO NOT SCALE DRAWING  
INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5 2009  
INTERPRET DWG PER ASME Y14.100

TOP ASSEMBLY (Scale 1:1)



BOTTOM ASSEMBLY (Scale 1:1)

