

53-156540-01

SH

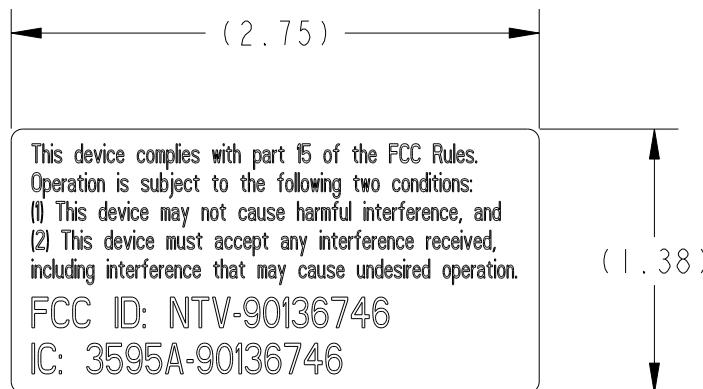
1

1

REV

A

| REV | DESCRIPTION | ECO | DATE | ENG | APVD |
|-----|-------------|-----|------|-----|------|
|     |             |     |      |     |      |



1. MATERIAL: AS SPECIFIED ON BILL OF MATERIAL.
2. TEXT TO BE LOCATED APPROXIMATELY AS SHOWN.
3. FONT DEFINITION: ALL TEXT TO BE SMOOTH FONT. FCC ID AND IC NUMBERS TO BE 16 PT. ALL OTHER TEXT TO BE 10 PT.

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DO NOT SCALE PRINT

REFERENCES:

ASME Y14.5M-1994

DWN M. TUCHSCHERER 04/22/05  
 DRW CHK K. WAGNER 04/25/05  
 ENGR M. TUCHSCHERER 04/22/05  
 ENG CHK M. HAJICEK 04/28/05  
 APVD J. T. JACOBSON 04/28/05



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 FARGO, NORTH DAKOTA

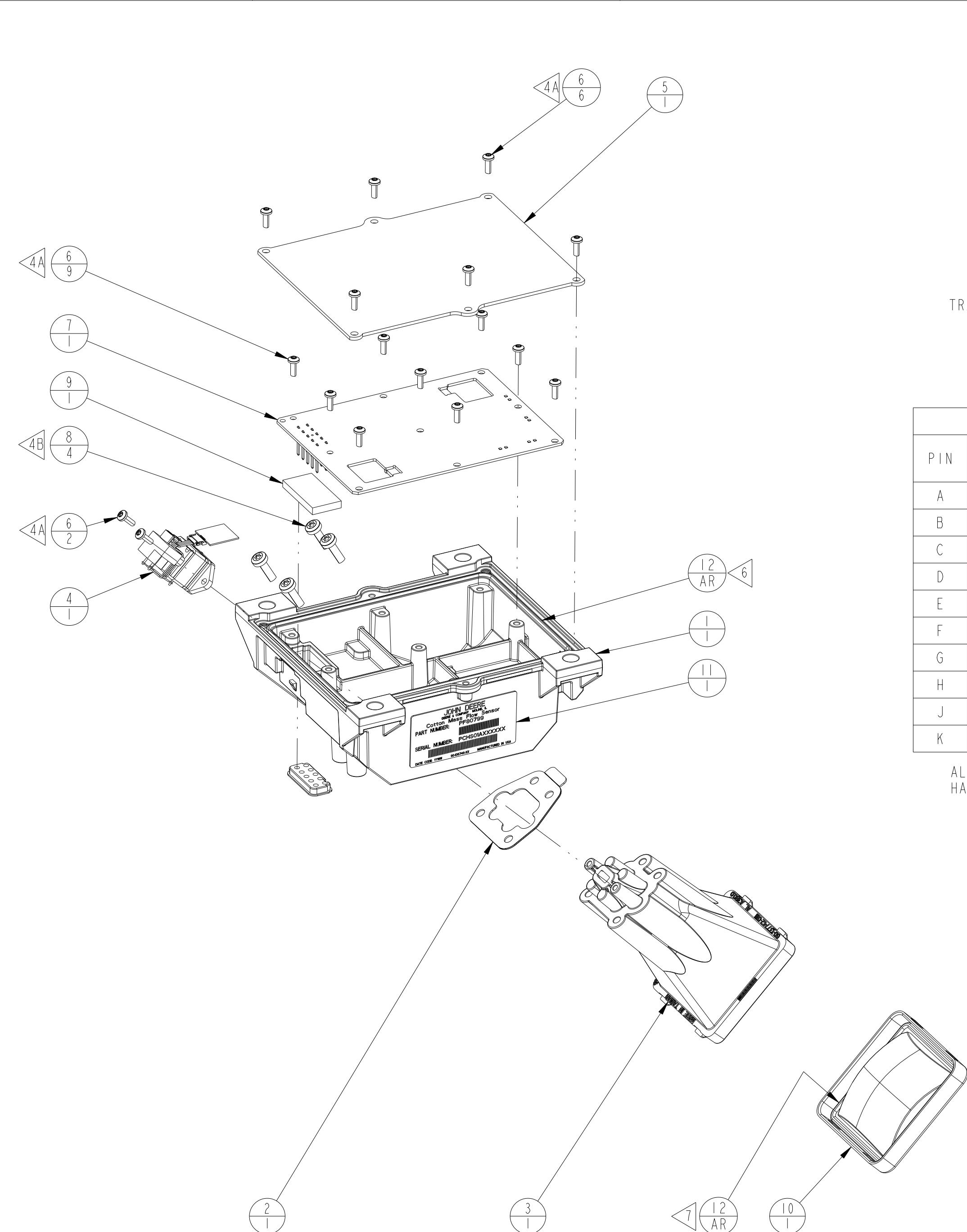
DECAL  
 FCC - IC COMPLIANCE  
 CMFS

|             |              |              |        |     |
|-------------|--------------|--------------|--------|-----|
| SIZE        | PROJ DRW VER | 53-156540-01 |        | REV |
| A           | 2            |              |        | A   |
| RELEASE NO. | DATE         | SCALE        | UNITS  |     |
| 32201       | 04/25/05     | 1 : 1        | INCHES |     |
|             |              | VOL =        |        |     |
|             |              |              | 1 OF 1 |     |

Pro/ENGINEER

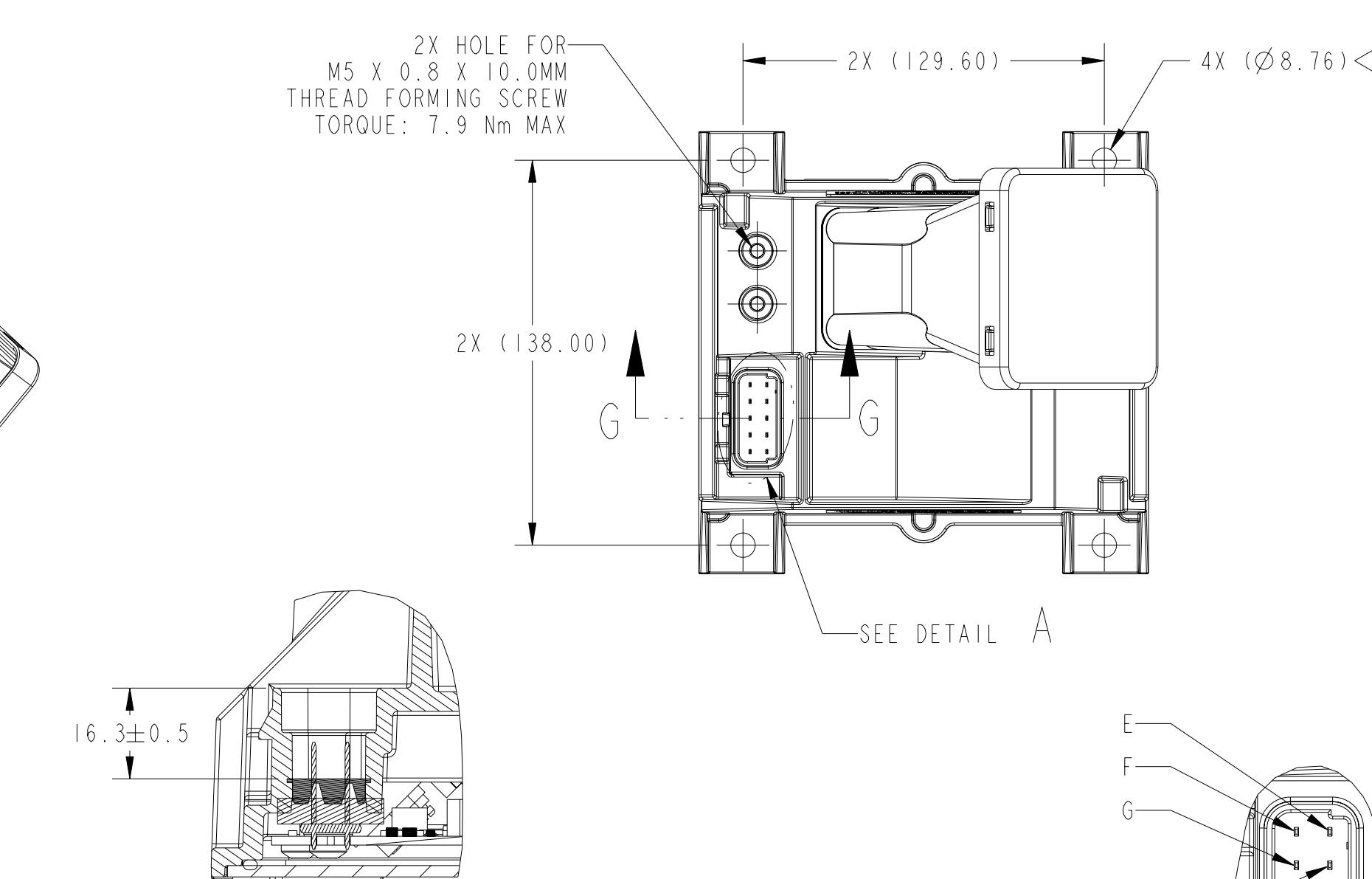
ALL SHEETS ARE SAME REVISION STATUS

| 99-138014-04 |        | REV F                              | DATE 04/25/05 | ENG JTJ  |
|--------------|--------|------------------------------------|---------------|----------|
| ZONE A8      | REV F1 | DESCRIPTION REVISED NOTE 5         | ECO           |          |
| B3           | F2     | ADDED VIEW                         | DATE          |          |
| B2           | F3     | PART LIST, ADDED FCC DECAL ITEM 14 | 32201         | 04/25/05 |

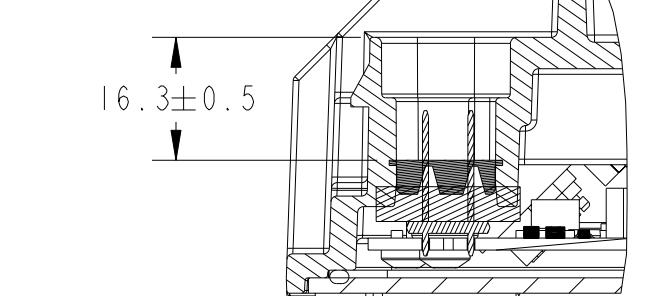


| CONNECTOR PIN-OUT |                                  |
|-------------------|----------------------------------|
| PIN               | SIGNAL                           |
| A                 | ADDRESS 0                        |
| B                 | "RESERVED" FOR /BOOTSTRAP ENABLE |
| C                 | "RESERVED"                       |
| D                 | CAN_H                            |
| E                 | GROUND                           |
| F                 | SWITCHED BATTERY                 |
| G                 | CAN_L                            |
| H                 | "RESERVED" FOR SERIAL Rx         |
| J                 | "RESERVED" FOR SERIAL Tx         |
| K                 | ADDRESS 1                        |

ALL "RESERVED" PIN-OUTS MUST HAVE A CAVITY PLUG INSTALLED IN MATING CONNECTOR



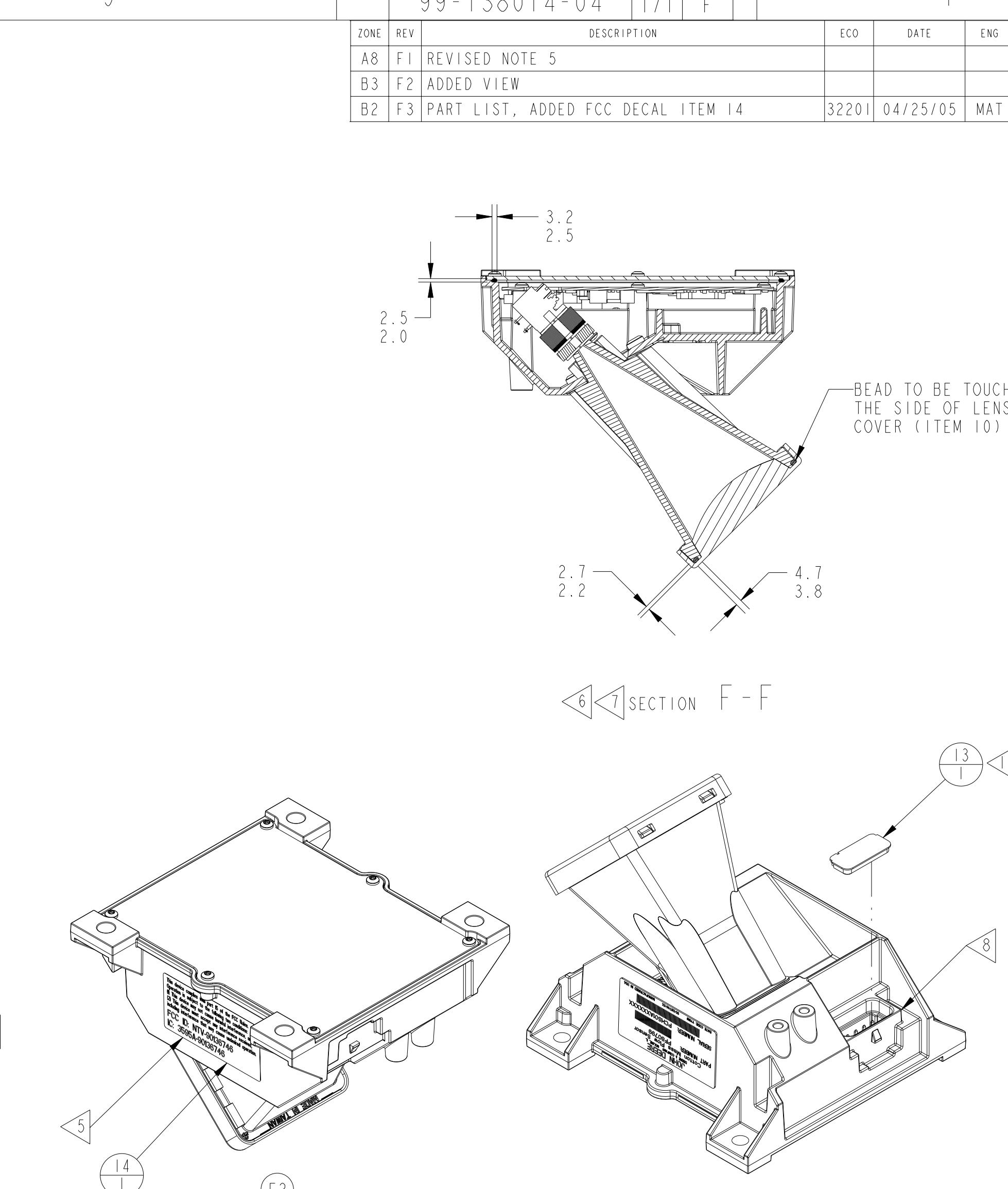
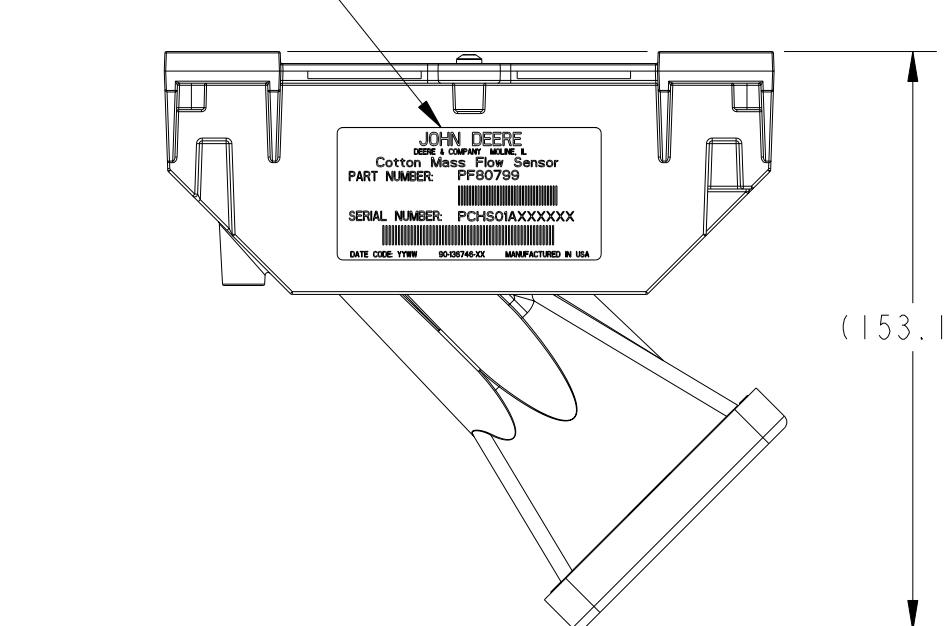
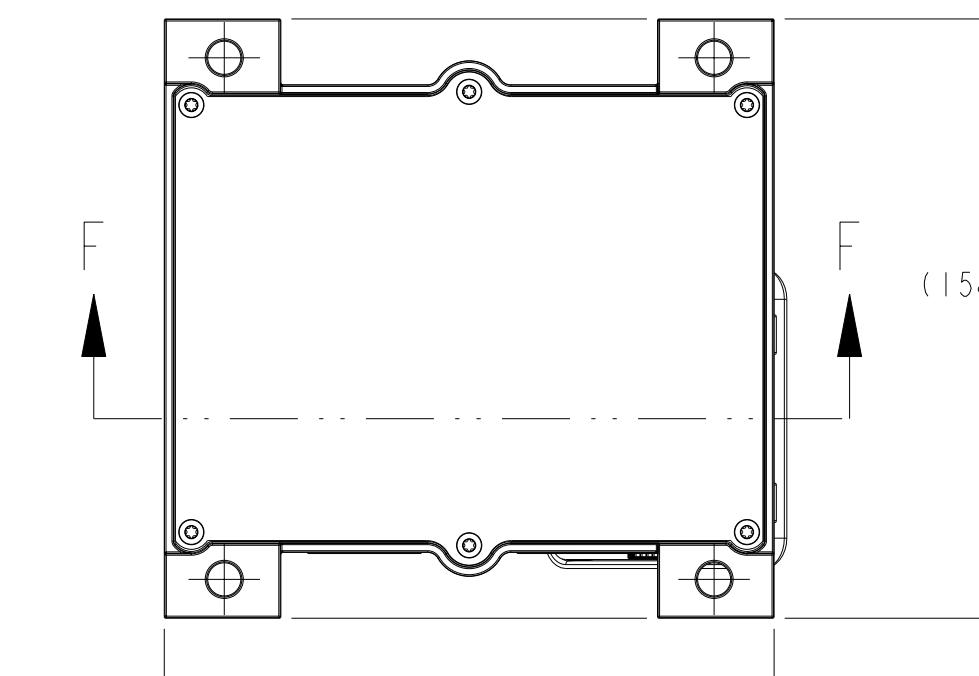
SECTION G-G  
SCALE 1:1



SECTION G-G  
SCALE 1:1

1. THIS DRAWING DESCRIBES THE ENGINEERING REQUIREMENTS TO ASSEMBLE PHOENIX INTERNATIONAL'S ASSEMBLY NUMBER 90-136746-03.
2. THE AUTHORITY FOR ASSEMBLY CONTENT IS THE RELEASED BILL OF MATERIAL (BOM). REFER TO THE BOM FOR ASSEMBLY CONTENT AND DETAIL PART NUMBER REVISION LEVEL.
3. THE AUTHORITY FOR EACH DETAIL PART IS THE DETAIL PART DRAWING. REFER TO THE DETAIL PART DRAWING AND DATASET (AS APPLICABLE) FOR COMPLETE DETAIL PART DEFINITION.
4. SCREW TORQUE VALUES:
  - A. (ITEM 6)  $1.8 \pm 0.1$  Nm ( $16.0 \pm 1.2$  LBS-IN)
  - B. (ITEM 8)  $9.0 \pm 0.7$  Nm ( $80.0 \pm 6.0$  LBS-IN)
5. DECALS (ITEM 11 AND 13) TO BE ORIENTED AND LOCATED APPROXIMATELY AS SHOWN.
6. APPLY WET BEAD OF LOCTITE 5910 (ITEM 12) TO ENCLOSURE (ITEM 1) AS SHOWN.
7. ASSEMBLE COVER (ITEM 5) AND SECURE WITH SCREWS (ITEM 6).
8. APPLY WET BEAD OF LOCTITE 5910 (ITEM 12) TO COVER (ITEM 10) AS SHOWN. THEN INSTALL COVER (ITEM 10) ONTO HORN (ITEM 3) WITH ARBOR PRESS PRIOR TO THE ASSEMBLY OF THE HORN TO THE ENCLOSURE.
9. REMOVE THE GROUNDING CONNECTOR FROM THE TRANSCEIVER ASSEMBLY (ITEM 4) AFTER THE INSTALLATION ONTO THE HORN (ITEM 3) AND SECURE WITH SCREWS (ITEM 6).
10. COMPONENTS OF THIS ASSEMBLY ARE HIGHLY STATIC SENSITIVE. ALL WORK RELATING TO THE TRANSCEIVER ASSEMBLY (ITEM 4) AND THE PCB ASSEMBLY (ITEM 7) MUST BE CONDUCTED AT A CONTROLLED WORK STATION THAT EMPLOYS STATIC CONTROLS. (FOR EXAMPLE: IONIZED AIR DISTRIBUTION).

11. AN ALIGNMENT FIXTURE MUST BE USED WHEN INSTALLING THE PCB ASSEMBLY (ITEM 7) TO THE ENCLOSURE (ITEM 1) TO ASSURE PROPER REGISTRATION OF THE CONNECTOR HEADER.
12. PLACE THE GASKET (ITEM 9) ONTO THE CONNECTOR HEADER LOCATED ON THE PCB ASSEMBLY (ITEM 7) PRIOR TO INSTALLATION OF THE PCB ASSEMBLY INTO THE ENCLOSURE (ITEM 1).
13. ALL ASSEMBLY STEPS MUST BE COMPLETED PRIOR TO INSTALLING THE SILICON SEAL (ITEM 13). INSTALL THIS PART FROM THE OUTSIDE OF THE ASSEMBLY WITH HOLES DOWN. INSERT TO THE DEPTH DEPICTED IN SECTION G-G.
14. SOFTWARE PART NUMBER 91-152446-01 (JOHN DEERE PN: PF371205).
15. RECOMMENDED ATTACHMENT FASTENERS: 8MM CAPSCREWS (4X) START ALL MOUNTING SCREWS PRIOR TO APPLYING A FINAL TORQUE OF 19-28 Nm EACH.



| ITEM | QTY. | PART NO.       | DESCRIPTION                           | NOTE |
|------|------|----------------|---------------------------------------|------|
| F3   | 14   | I 53-156540-01 | DECAL, FCC - IC COMPLIANCE            |      |
|      | 13   | I 60-125595    | SEAL, CONNECTOR                       |      |
|      | 12   | AR 70-126719   | ADHESIVE, LOCTITE 5910                |      |
|      | 11   | I 53-136793-04 | DECAL, P/N - S/N                      |      |
|      | 10   | I 60-153975-01 | COVER, LENS                           |      |
|      | 9    | I 60-136965-02 | GASKET, 10 PIN METRI-PACK             |      |
|      | 8    | 4 81-152460-01 | SCREW, TORX PAN HEAD TAPPISE TRI-LOBE |      |
|      | 7    | I 95-136747-02 | ASSEMBLY, PCB                         |      |
|      | 6    | I 81-117970    | SCREW, TORX PAN HEAD TAPPISE          |      |
|      | 5    | I 60-137739-01 | COVER, RADAR                          |      |
|      | 4    | I 94-138311-04 | ASSEMBLY, TRANSCEIVER                 |      |
|      | 3    | I 60-137742-04 | HORN, RADAR                           |      |
|      | 2    | I 60-137839-04 | GASKET, HORN                          |      |
|      | 1    | I 61-137998-03 | ENCLOSURE, CMFS RADAR                 |      |

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|--|---------------------------------|
| DRW CHK  | K. WAGNER 01/03/05              |
| ENGR   | M. TUCHSCHERER 12/30/04         |
| ENG CHK  | M. SCHMALTZ 01/03/05            |
| REFERENCES:  | J. T. JACOBSON 01/03/05         |
| APVD   | ASME Y14.5M-1994                |
| ALL SHEETS ARE SAME REVISION STATUS  | RELEASE NO. 29166 DATE 12/17/04 |
|  | SCALE 1:2                       |
|  | SIZE D UNITS METRIC:mm          |
|  | PROT DRW VER 1                  |
|  | REV F                           |
|  | UNITS METRIC:mm                 |
|  | SHEET 1 OF 1                    |

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FARGO, NORTH DAKOTA  
ASSEMBLY  
COTTON MASS FLOW SENSOR