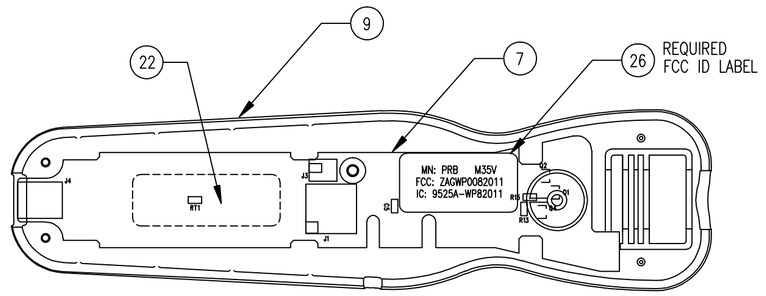
02-201512-00 UTA PROBE

FR NUMBER	DESCRIPTION	QTY	ITEM
201477-00	ASSY UHH PROBE RADIO BOARD	1	7
410849-00	UHH PROBE BOTTOM	1	8
410849-10	UHH PROBE COVER WITH BUTTON	1	9
310711-23	2-28 X 1/2 SCR PLASTITE TORX	2	10
310711-24	2-28 X 5/8 SCR PLASTITE TORX	2	11
201437-00	UTA PROBE ASSEMBLY	1	12
443876-00	UHH CATALOG I.D. & MODEL NO. LABEL	1	13
443879-00	CE LABEL W/ FCC INFO	1	14
443857-02	LABEL DWYER LOGO DOMED	1	15
340018-02	PLYET BAG 5 X 24 X .004 THK	1	16
440745-06	LABEL DWYER CARTON W/CE	1	17
352122-00	BATTERY, LITHIUM RECHG 3.75V, 600MAH	1	18
421337-10	HANDSTRAP CLIP UHH	1	19
350629-00	HANDSTRAP	1	20
410898-00	USB PORT ENCLOSURE UHH PROBE	1	21
440028-00	SERIAL NUMBER LABEL	1	22
340014-00	POLY BAG 2 X 3-3/4 X .004	1	23
310711-13	SCR 4-20 X 1/2 PLST PNH TORX	1	25
443971-00	UHH PROBE PCB LABEL	1	26

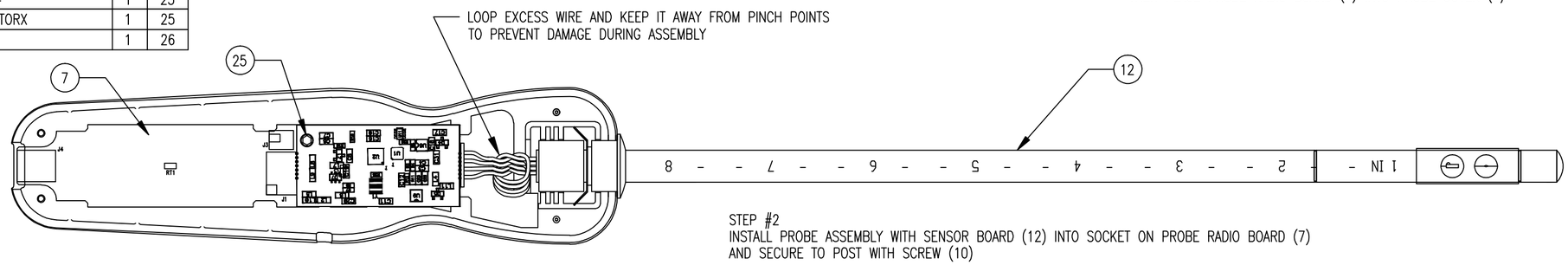
DESCRIPTION:
THE PRB RADIO PROBE BOARD IS SEEKING FCC LIMITED MODULAR APPROVAL. THE CIRCUIT BOARD IS A SUB-ASSEMBLY THAT IS ADDED TO A DATA MEASUREMENT PROBE TO GIVE IT WIRELESS FUNCTIONALITY. THE DATA MEASUREMENT PROBE CONSISTS OF A SENSOR ASSEMBLY, A SENSOR MAIN BOARD AND A CABLE USED TO PLUG INTO THE DATA COLLECTION DEVICE.

WHEN THE PRB IS ADDED TO THE DATA MEASUREMENT PROBE IT REPLACES THE CABLE AND BECOMES THE INTERFACE TO THE DATA COLLECTION DEVICE. THE SENSOR MAIN BOARD PLUGS DIRECTLY INTO THE PRB AND PASSES THE DATA MEASURED TO THE PRB WHICH THEN TRANSMITS THE DATA TO THE DATA COLLECTION DEVICE. THE PRB CAN ONLY BE USED WITH DWYER DEVELOPED DATA MEASUREMENT PROBES SUCH AS THE AP2, THERMO ANEMOMETER AIR VELOCITY AND TEMPERATURE PROBE OR THE RP2, THERMO HYGROMETER HUMIDITY AND TEMPERATURE PROBE.

THE INTERFACE BETWEEN THE SENSOR MAIN BOARD AND THE PRB IS A SIMPLE SERIAL AND POWER CONNECTION THAT IS CONSISTENT FOR ALL SENSOR ASSEMBLIES THAT ACCEPT THE PRB. THE UNIQUE FORM FACTOR OF THE PRB IS ONLY COMPATIBLE WITH DWYER DESIGNED AND MANUFACTURED DATA MEASUREMENT PROBES AND THEREFORE CANNOT BE UTILIZED IN PRODUCTS NOT MANUFACTURED BY DWYER INSTRUMENTS. ONLY THE DWYER INSTRUMENTS DATA COLLECTION DEVICE (UHH) CAN COMMUNICATE WITH THE FIRMWARE ON BOARD THE PRB TO GATHER THE DATA CAPTURED BY THE DATA MEASUREMENT PROBE.

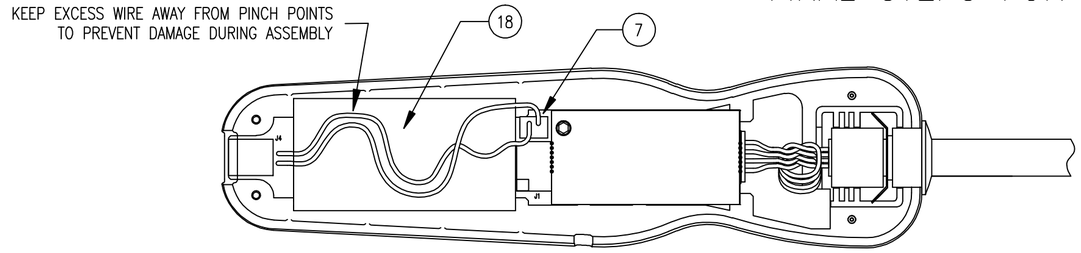


STEP #1
PLACE SERIAL NUMBER LABEL (22) INSIDE PROBE COVER (9) AS SHOWN, THEN PLACE PROBE RADIO BOARD (7) INTO PROBE COVER (9).

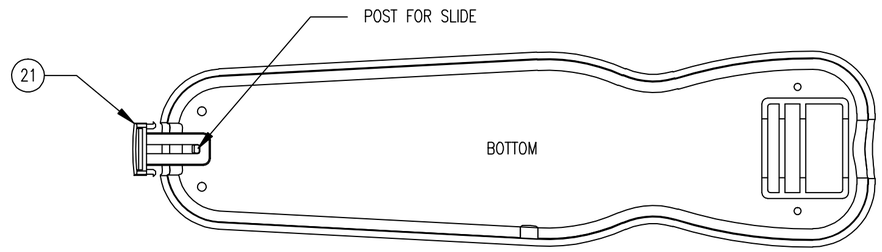


STEP #2
INSTALL PROBE ASSEMBLY WITH SENSOR BOARD (12) INTO SOCKET ON PROBE RADIO BOARD (7) AND SECURE TO POST WITH SCREW (10)

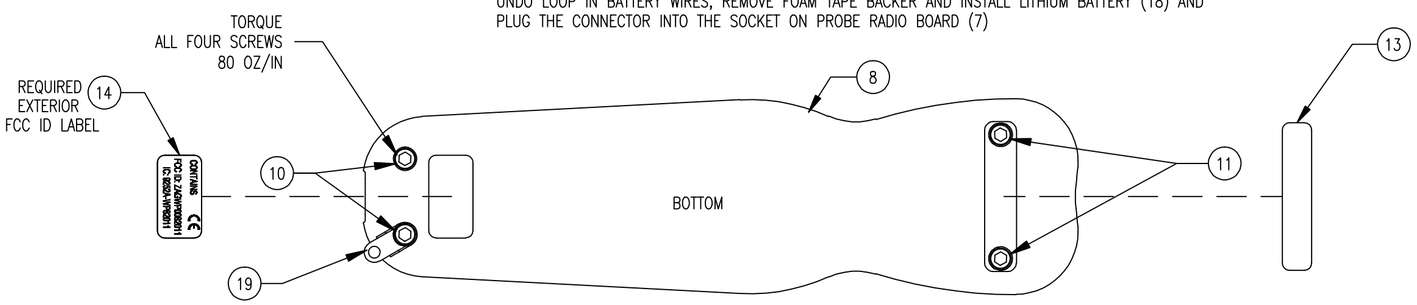
FINAL STEPS FOR 201512-00 & -10



STEP #3 (201512-00) & STEP #8 (201512-10)
UNDO LOOP IN BATTERY WIRES, REMOVE FOAM TAPE BACKER AND INSTALL LITHIUM BATTERY (18) AND PLUG THE CONNECTOR INTO THE SOCKET ON PROBE RADIO BOARD (7)



STEP #4 (201512-00) & STEP #9 (201512-10)
INSTALL USB PORT ENCLOSURE (21) OVER POST ON BOTTOM HALF OF HOUSING



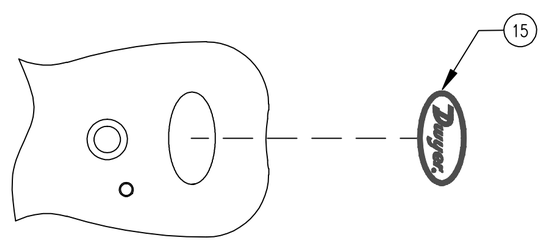
WIRELESS GUIDELINES IN ACCORDANCE WITH FCC:
CHANGES NOT EXPRESSLY APPROVED BY DWYER INSTRUMENTS, INC. COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS PRODUCT COMPLIES WITH FCC OET BULLETIN 65 RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT.

PURSUANT TO FCC 15.21 OF THE FCC RULES, CHANGES NOT EXPRESSLY APPROVED BY DWYER INSTRUMENTS, INC. MIGHT CAUSE HARMFUL INTERFERENCE AND VOID THE FCC AUTHORIZATION TO OPERATE THIS PRODUCT.

CANADIAN GOVERNMENT GUIDELINES:
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

STEP #5 (201512-00) & STEP #10 (201512-10)
INSTALL PROBE BOTTOM (8) ONTO PROBE COVER USING SCREWS (10) AND (11). SCREW HANDSTRAP CLIP (19) TO PROBE BOTTOM. PLACE LABELS (13), (14) & (15) IN RECESSED AREAS AS SHOWN. PLACE ASSEMBLED PROBE IN POLYBAG (16) AND AND PUT LABEL (17) ON BAG. PLACE HANDSTRAP (20) IN POLYBAG (23).



CD = CRITICAL DIMENSION
STANDARD TOLERANCES UNLESS NOTED:
ALL DECIMAL DIMENSIONS ± .005
ALL ANGLES ± 1°

SCALE 1:1

NO.	CHANGES	BY/DATE

DATE 10-18-11
DWN BY KC
CHKD
APPD

NAME
UHH WIRELESS
PRB ASSEMBLY DETAIL
FCC AGENCY APPROVAL DRAWING

SHEET 1 OF 2

ACAD2002

MATERIAL

FINISH

DWYER INSTRUMENTS, INC.
MICHIGAN CITY, INDIANA 46360 U.S.A.

FR. NO. 02-001644-00

02-001644-00

02-001644-00

02-201512-10 RH/TEMP PROBE

FR NUMBER	DESCRIPTION	QTY	ITEM
410812-10	FILTER CAP 1/4 NPSM	1	1
201406-01	PCB DUCT SENS 2%	1	2
201479-00	UHH RH/TEMP PROBE PCB ASSY	1	3
201478-00	UHH RH/TEMP SENSOR INTERFACE ASSY	1	4
443819-00	PROBE PCB GASKET	2	5
201437-20	UHH PROBE SENSOR CABLE	1	6
201477-00	ASSY UHH PROBE RADIO BOARD	1	7
410849-00	UHH PROBE BOTTOM	1	8
410849-10	UHH PROBE COVER WITH BUTTON	1	9
310711-23	2-28 X 1/2 SCR PLASTITE TORX	2	10
310711-24	2-28 X 5/8 SCR PLASTITE TORX	2	11
201505-00	UHH RH/TEMP PROBE TUBE ASSY	1	12
443876-00	UHH CATALOG I.D. & MODEL NO. LABEL	1	13
443879-00	CE LABEL W/ FCC INFO	1	14
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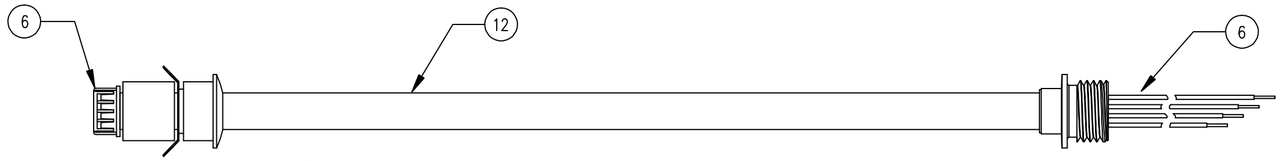
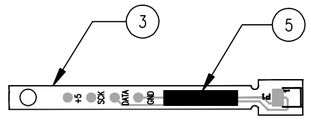


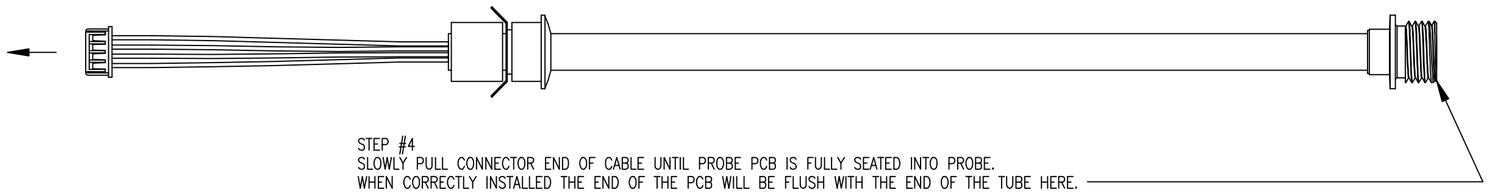
STEP #1
INSERT UHH PROBE SENSOR CABLE (6) INTO PROBE TUBE ASSEMBLY (12) ALL THE WAY UNTIL THE CONNECTOR IS UP AGAINST THE END OF THE PROBE TUBE.



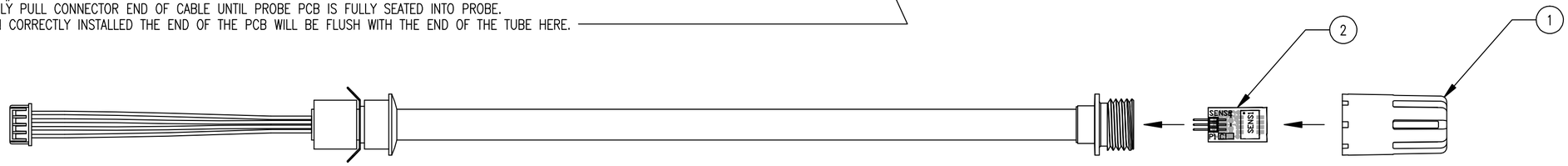
STEP #2
INSTALL GASKETS (5) ONTO THE TOP AND THE BOTTOM OF PROBE PCB ASSY (3) AT LOCATION SHOWN.

STEP #3
INSERT WIRES THROUGH HOLE IN PROBE PCB ASSY AND SOLDER WIRES AT LOCATIONS SHOWN.

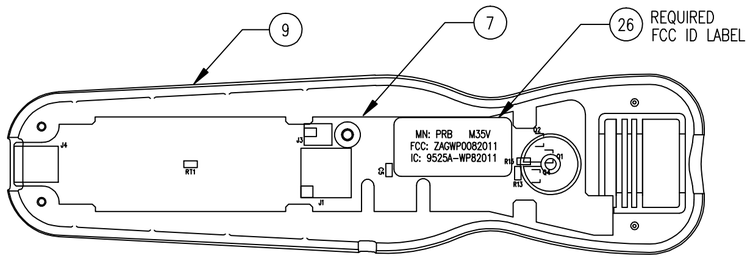
201512-10



STEP #4
SLOWLY PULL CONNECTOR END OF CABLE UNTIL PROBE PCB IS FULLY SEATED INTO PROBE.
WHEN CORRECTLY INSTALLED THE END OF THE PCB WILL BE FLUSH WITH THE END OF THE TUBE HERE.

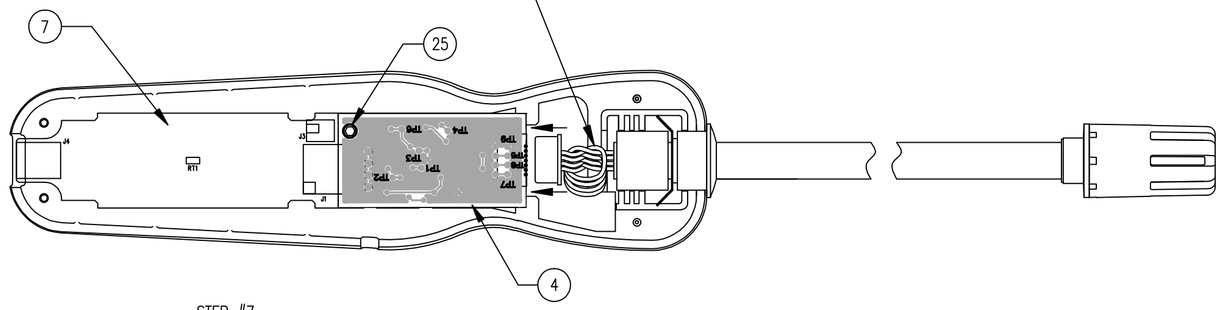


STEP #5
INSTALL SENSOR PCB ASSY (2) INTO 6 PIN SOCKET IN TUBE ASSEMBLY, THEN SCREW FILTER CAP (1) ONTO PROBE TUBE.



STEP #6
PLACE PROBE RADIO BOARD (7) INTO PROBE COVER WITH BUTTON (9).

PRIOR TO STEP #7 CREATE A LOOP WITH EXCESS WIRE TO KEEP IT AWAY FROM PINCH POINTS TO PREVENT DAMAGE DURING ASSEMBLY



STEP #7
INSTALL SENSOR PCB ASSY (4) INTO SOCKET ON PROBE RADIO BOARD (7) AND SECURE TO POST WITH SCREW (10).
THEN INSTALL COMPLETED PROBE ASSY FROM STEP #5 INTO COVER AND PLUG THE CONNECTOR INTO SOCKET ON SENSOR PCB (4) AS SHOWN

CD = CRITICAL DIMENSION

STANDARD TOLERANCES UNLESS NOTED:
ALL DECIMAL DIMENSIONS ± .005
ALL ANGLES ± 1°

SCALE 1:1

DATE 10-18-11	NAME UHH WIRELESS PRB ASSEMBLY DETAIL FCC AGENCY APPROVAL DRAWING	MATERIAL
DWN BY KC		FINISH
CHKD	SHEET 2 OF 2	DWYER INSTRUMENTS, INC. MICHIGAN CITY, INDIANA 46360 U.S.A.
APPD	ACAD2002	FR. NO. 02-001644-00