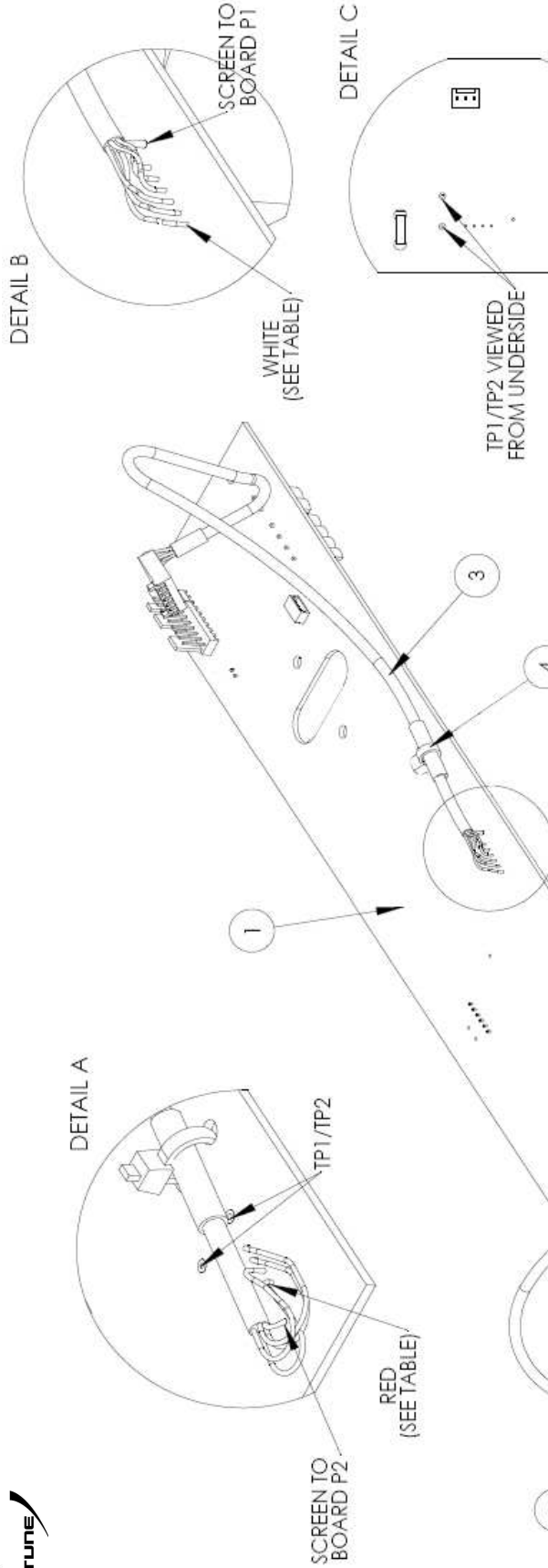




Spares Information for the DX.260-1 Smokehead

TES1623/A
March 2009

CABLED SMOKEHEAD DX 260-1



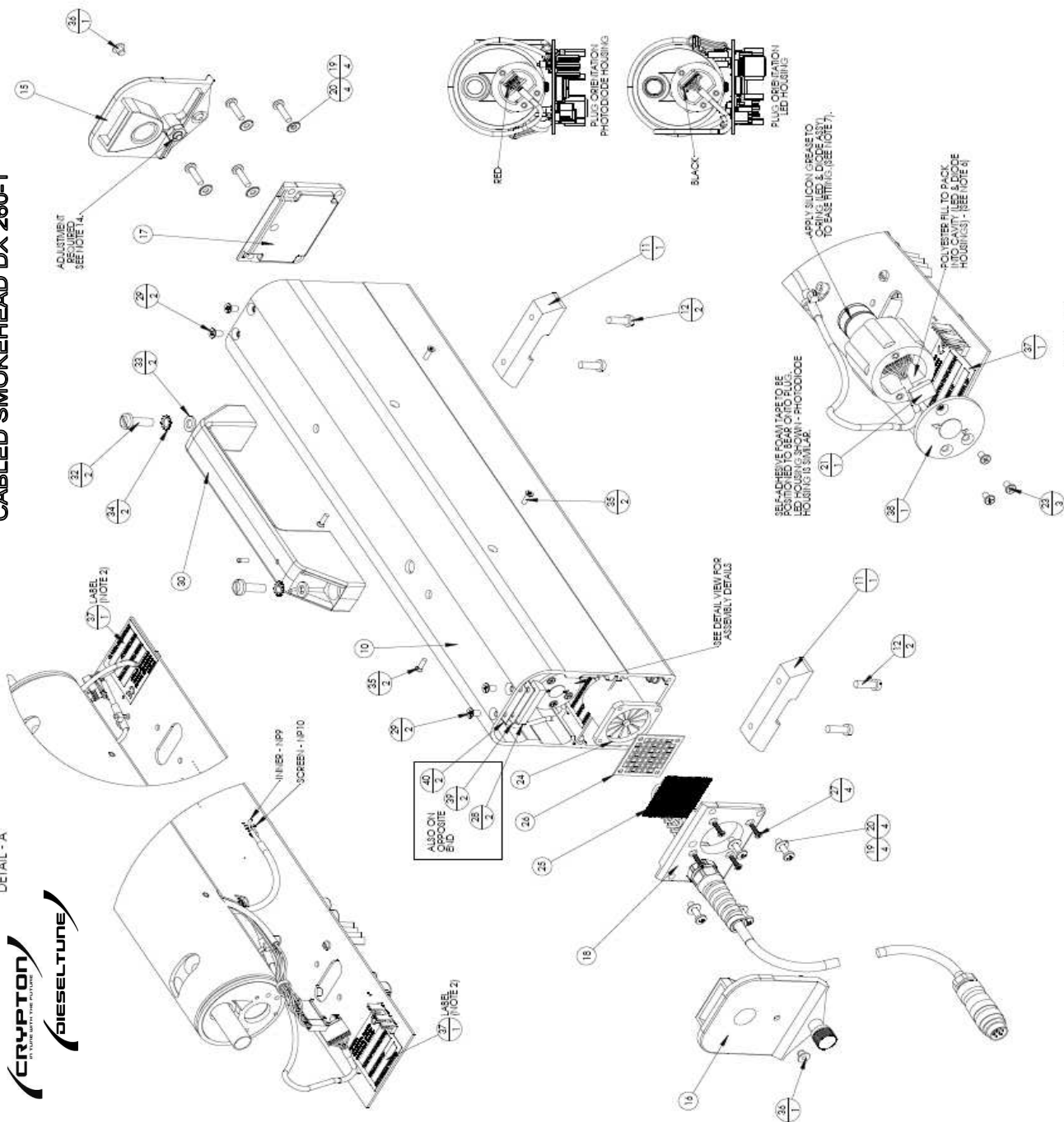
NOTES :

- CABLE CLIP (4) TO BE SECURED UNDER M3 SCREW AND NUT HOLDING HEATSINK AND V-REGULATOR. REPLACE M3 SCREW WITH M3 x 16 LONG IF REQUIRED.
- CABLE CLIP (5) SECURED THROUGH TWO PCB HOLES.
- BOTH CABLE CLIPS SHOULD SECURE CABLE OVER SLEEVING.
- CONFORMAL COAT ASSEMBLED BOARD, MASKING TP1, TP2, CABLE PLUGS AND ALL HEADER PINS.

POSN	COLOUR	CABLE
1	GREEN	DA300441 DIODE CABLE
2	YELLOW	DA300441 DIODE CABLE
3	BLUE	DA300441 DIODE CABLE
4	RED	DA300441 DIODE CABLE
BOARD P2	SCREEN	DA300441 DIODE CABLE
1	WHITE	DA300442 LED CABLE
2	BLUE	DA300442 LED CABLE
3	YELLOW	DA300442 LED CABLE
4	GREEN	DA300442 LED CABLE
5	RED	DA300442 LED CABLE
6	BLACK	DA300442 LED CABLE
BOARD P1	SCREEN	DA300442 LED CABLE

DESCRIPTION	PART NUMBER	QUANTITY
1 PROGRAMMED BOARD ASSY	SEE SECTION AT END OF DOC.	1
2 P/DIOD CABLE ASSY	DAS00441	1
3 LED CABLE ASSY	DAS00442	1
4 CABLE TIE	CBLX0071	1
5 CABLE TIE	CBLX0054	1

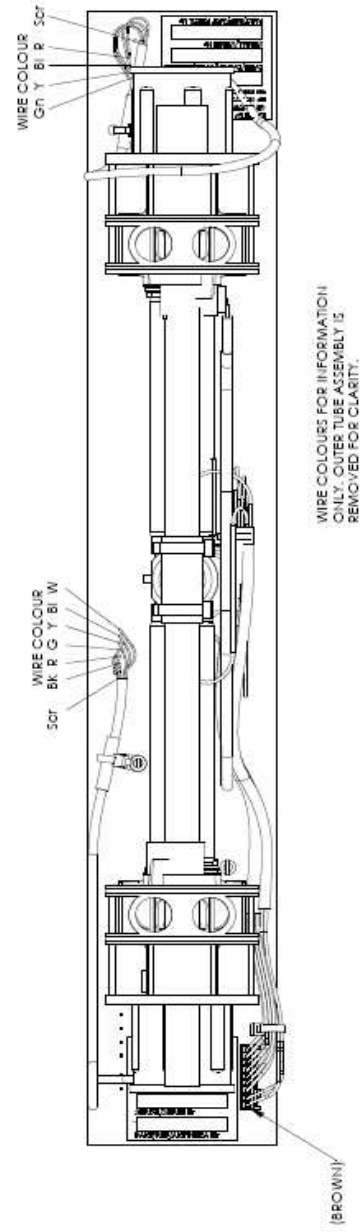
CABLED SMOKEHEAD DX 260-1



DETAIL - 8

- [illegible]

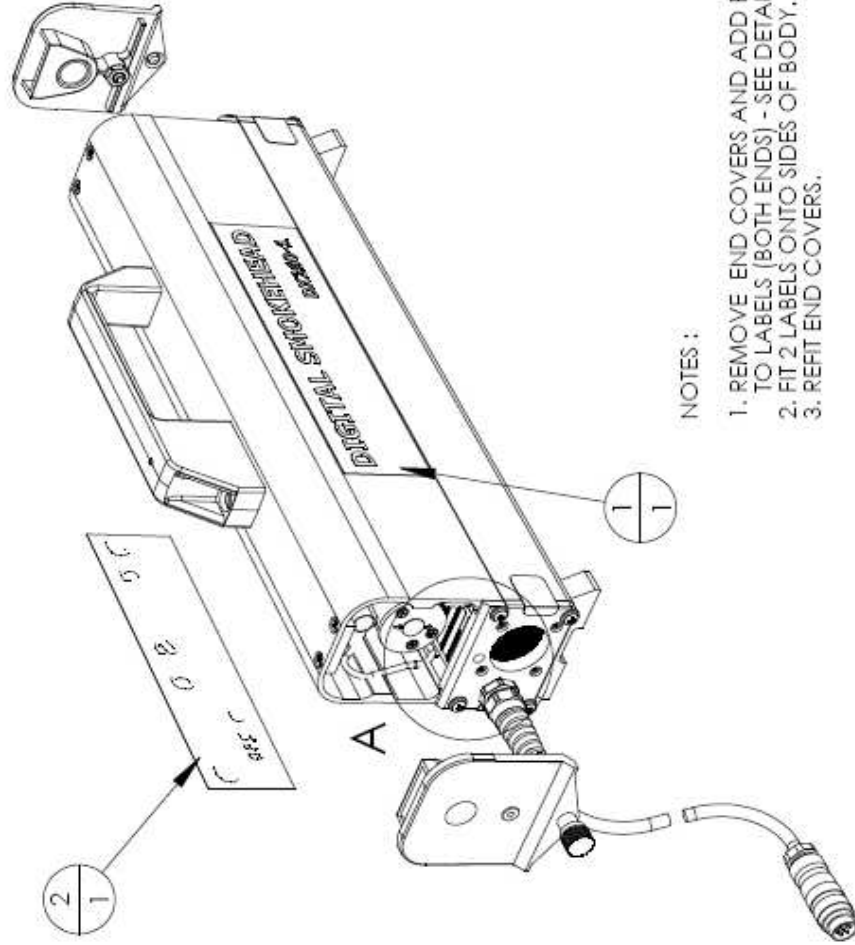
ITEM NO.	PART NUMBER	DESCRIPTION	Defoult/Qty.
1	DAS00483	MEASURING UNIT ASSEMBLY	1
2	DAS00488	WIRED BOARD ASSEMBLY	1
3	DX230-100_95	CRADLE	2
4	SCRW7022	M3 x 12 PHX HD POZI	2
5	SCRW7023	M3 x 16 PHX HD POZI	2
6	WSHR1021	M3 SINGLE COIL WASHER	4
7	WSHR1010	M3 PLAIN WASHER	4
8	DAS00443	PHOTODIODE HOUSING ASSY	1
9	DAS00444	LED HOUSING ASSY	1
10	DDL00386	HEAD EXTRUSION	1
11	DX-210-1_23	FOOT	2
12	SCRW1055	M5x16 CH HD SCREW	4
13	WSHR1023	M5 FLAT WASHER	4
14	NUS1019	M5 INT LOC	4
15	DAS00485	REMOVABLE INLET ASSY	1
16	DX-230-130_06	REMOVABLE OUTLET ASSY	1
17	DX-230-130_06_06	FLUID INLET BLD CHX	1
18	DAS00487	FLUID INLET/OUTLET ASSEMBLY	1
19	DMC-404016	M4 x 16 PHX POZI	8
20	WSHR1016	M4 FORM C WASHER	8
21	TAPE1007	FOAM TAPE	A/R
22	DDL00096	POLYESTER RILL	2
23	SCRW7019	M3 x 8 CSK POZI SCREW	6
24	DX-230-130_16	FAN ASSEMBLY	2
25	DDL00214	FAN FILTER	1
26	DX-230-130_11	FAN GRILLE	1
27	CSBP04012	#4 x 12 CSK STAP POZI	4
28	DX-230-130_04	LATCH BLOCK	4
29	CMC-404008	M4 x 8 CSK POZI	4
30	DDL00270	HANDLE	1
31	OPTL0080	LIGHT PIPE	1
32	DMC-40620	M6 x 20 PH SLOTTED	2
33	WSHR1030	M6 FLAT WASHER	2
34	WSHR1033	M6 SHAKEPROOF	2
35	SCRW7020	M3 x 10 CSK POZI	4
36	PLUG0042	BLANKING PLUG	3
37	DDL00500	SERIAL LABEL	2
38	DX-210-1_42A	HOUSING CAP	2
39	DX-230-130_05	LATCH SHIM 0.5	2
40	DX-230-130_06	LATCH SHIM 0.25	2





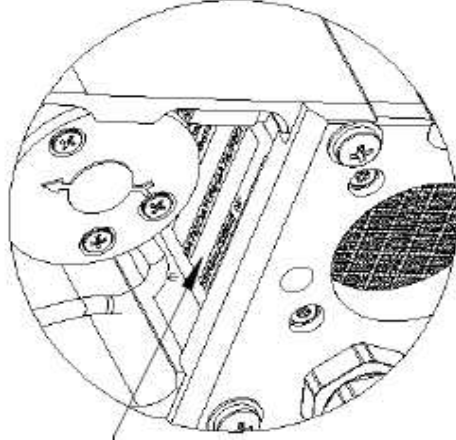
CABLED SMOKEHEAD DX 260-1

ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	DOL00510	DX260-1 LABEL	2
2	CAL VOID LABEL	CAL VOID LABEL	4
3	DAS00509	SMOKEHEAD COMMON ASSY	1



SMOKEHEAD TO BE PROGRAMMED WITH PRODUCT ID BADGING SOFTWARE AS SUPPLIED BY ENGINEERING.

PART NUMBER TO BE MARKED ON LABEL (BOTH ENDS). SEE VARIANT LIST ABOVE



DETAIL A

NOTES :

1. REMOVE END COVERS AND ADD PART NUMBER TO LABELS (BOTH ENDS) - SEE DETAIL VIEW 'A'.
2. FIT 2 LABELS ONTO SIDES OF BODY.
3. REFIT END COVERS.



1. FIT FEET AND CHARGING LEAD TO EXTRUSION USING M4 SCREWS, M4 WASHERS, M4 SHAKEPROT WASERS, AND INSULATING BUSHES. NOTE THE BUILD FOR EACH CORNER AS SHOWN IN DETAIL VIEWS. ENSURE SCREWS ARE NOT OVERTIGHTENED WHICH RESULTS IN CHARGING CONTACTS BEING PULLED TOO FAR INTO THE FEET.
2. FIT PART WITH M4 CAP SCREWS AND NUTS. LOCATE NUTS, NOTE RAIL OFFSET IN DETAIL VIEW. SLIDE BATTERY PACK INTO POSITION WITH 2-CONNECTOR LEAD AT THE SAME END AS THE 4-CONNECTOR CHARGING LEAD.
3. FINISH THE 4-CONNECTOR BOARD IN POSITIONS SHOWN. LABELS SHOULD BE FIT SERIAL LABELS TO PC BOARD IN POSITIONS AND SERIAL NO ONLY. PART NO. IS ADDED AT TOP LEVEL ASSEMBLY STAGE.
4. SOLDER MICROPHONE CABLE WIRES TO BOARD AS SHOWN IN DETAIL VIEW A'. THE SCREEN CONNECTION LINE IS BLACK WIRE.
5. FIT MEASURING UNIT ASSEMBLY TO PCB BOARDS USING 2-MIX X 13 SCREWS. SERVO MOTOR CAN BE USED TO HOLD THE MEASURING UNIT IN PLACE.
6. NOTE THAT THE M3, 16 SCREWS ARE THE OUTER PAIR THAT SCREW INTO THE VENTILATION ASSEMBLY INSERTS.
7. PLUG 7-WAY AND 7-WAY CABLES INTO BOARD CONNECTORS.
PLUG IN ALWAY CABLE INTO PHOTO DIODE ASSEMBLY, AND 6-WAY CABLE INTO SERVO MOTOR. SERVO MOTOR SHOULD BE HELD IN PLACE BY THE POWER SUPPLY ASSEMBLY. THE HOUSING POSITION FOR PART NO. F01895ER
FILL AS PER DETAIL VIEW B' SELF-ADHESIVE TAPE STRIPS TO HOUSING CAPS
8. PACK POLYESTER FILLED WITH ROUND CONNECTOR. THEN FIT HOUSING CAPS TO PACK POSITIONED WITHIN CAVITY OVER THE CONNECTOR.
9. APPLY THERMOFORMED ORLEON COUPLING TUBES TO HOUSING CAPS. SERVO MOTOR HOUSING ASSEMBLIES INTO MEASURING UNIT.

ITEM NO.	PART NUMBER	DESCRIPTION	Epico/QTY.
1	DA300488	MEASURING UNIT ASSEMBLY	A/R
2	TAPE1007	FOAM TAPE	2
3	DLO03056	POLYESTER FIL	6
4	SCRW7019	M3 x 6 CSK POZI SCREW	2
5	DX-210-1_62A	HOUSING CAP	2
6	DA300443	PHOTODIODE HOUSING ASSY	1
7	DA300444	LED HOUSING ASSY	1
8	WSHR1010	M3 PLAIN WASHER	4
9	WSHR1011	M3 SINGLE COIL WASHER	4
10	SCRW7022	M3 x 12 PAN HD POZI	2
11	SCRW7023	M3 x 16 PAN HD POZI	4
12	SCRW7020	M3 x 10 CSK POZI	4
13	DX-230-100_95	CRADLE	1
14	DX-230-130_16	FAN ASSEMBLY	2
15	CSBR04012_6	#4 x 12 CSK STAP POZI	4
16	DLO02014	FAN FILTER	1
17	DX-230-130_11	FAN GRILLE	1
18	DA300483	WIRED BOARD ASSEMBLY	1
19	DLO03088	HEAD EXTRUSION	1
20	DA300486	REMOVABLE OUTLET ASSY	1
21	DA300513	FIXED OUTLET ASSY [BLUETOOTH]	1
22	PLUG0042	BLANKING PLUG	22
23	WSHR1016	M4 FORM C WASHER	2
24	DMC404016	M4 x 16 PH POZI	6
25	DA300485	REMOVABLE INLET ASSY	1
26	DX-230-140_06	FIXED INLET END CAP	1
27	DLO05000	SERIAL LABEL	2
28	DA300294	BLUETOOTH CONNECTION LEAD	1
29	DLO03000	GASKET	1
30	OPT00600	LIGHT PIPE	1
31	DMC406020	M6 x 20 PH SLOTTED	2
32	WSHR1030	M6 FLAT WASHER	2
33	WSHR1033	M6 SHAFERPOOF	2
34	DLO02070	HANDLE	1
35	DLO02093	CHARGING CONTACT	4
36	DX-210-1_23	FOOT	2
37	CPTV0049	INSULATING RUSH 4.1mm	2
38	SCRW0051	M4 x 20 HEX HEAD	2
39	SCRW3002	M4 x 16 HEX HEAD	2
40	WSHR1020	M4 SHAFERPOOF	2
41	DX-230-130_04	LATCH BLOCK	4
42	CNC404008	M4 x 8 CSK POZI	4
43	NUTS 014	M4 NUTLOC	2
44	CNC404010	M4 x 10 CSK POZI	1
45	DLO02091	DIN RAIL	1
46	DX-250-181_01	BATTERY PACK	1
47	DA300289	CHARGING LEAD	1
48	WSHR1019	M4 EXTERNAL WASHER	2
49	DX-210_139-04	SPACER	2
50	MBTC00081	3mm LG SPACER (42mm BORE)	1
51	BLT00076	3.2mm SPIRAL WRAP	0.2m
52	AS09459	BLUETOOTH CARRIER BD	1
53	PSA80509	DIAGNOSTIC TOOL (UNWIRMAN)	1
54	SP2019A	M4 x 1mm SPACER	3
55	SC3412A	BLUETOOTH ANTENNA	1
56	DX230-130_06	LATCH SHIM 0.25	2
57	DX230-130_05	LATCH SHIM 0.5	2

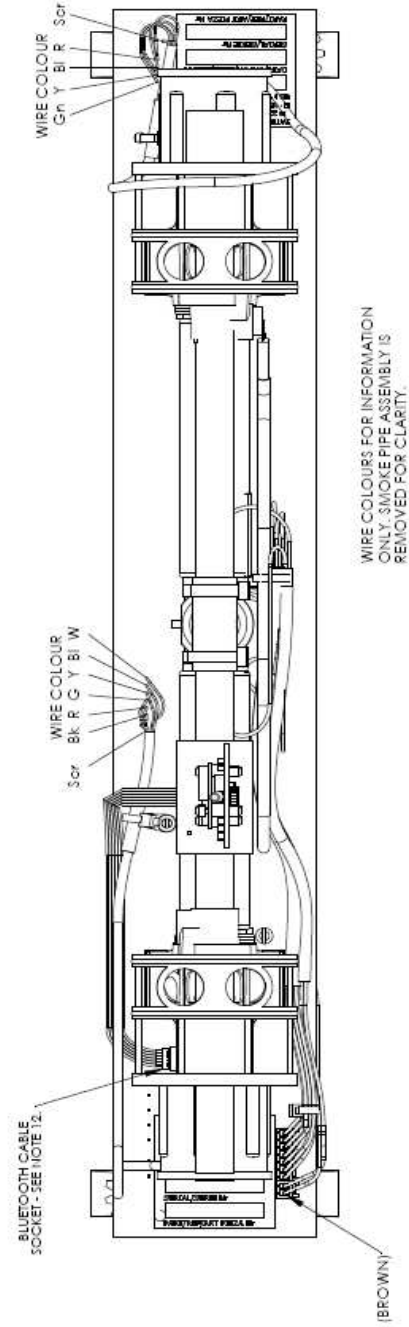
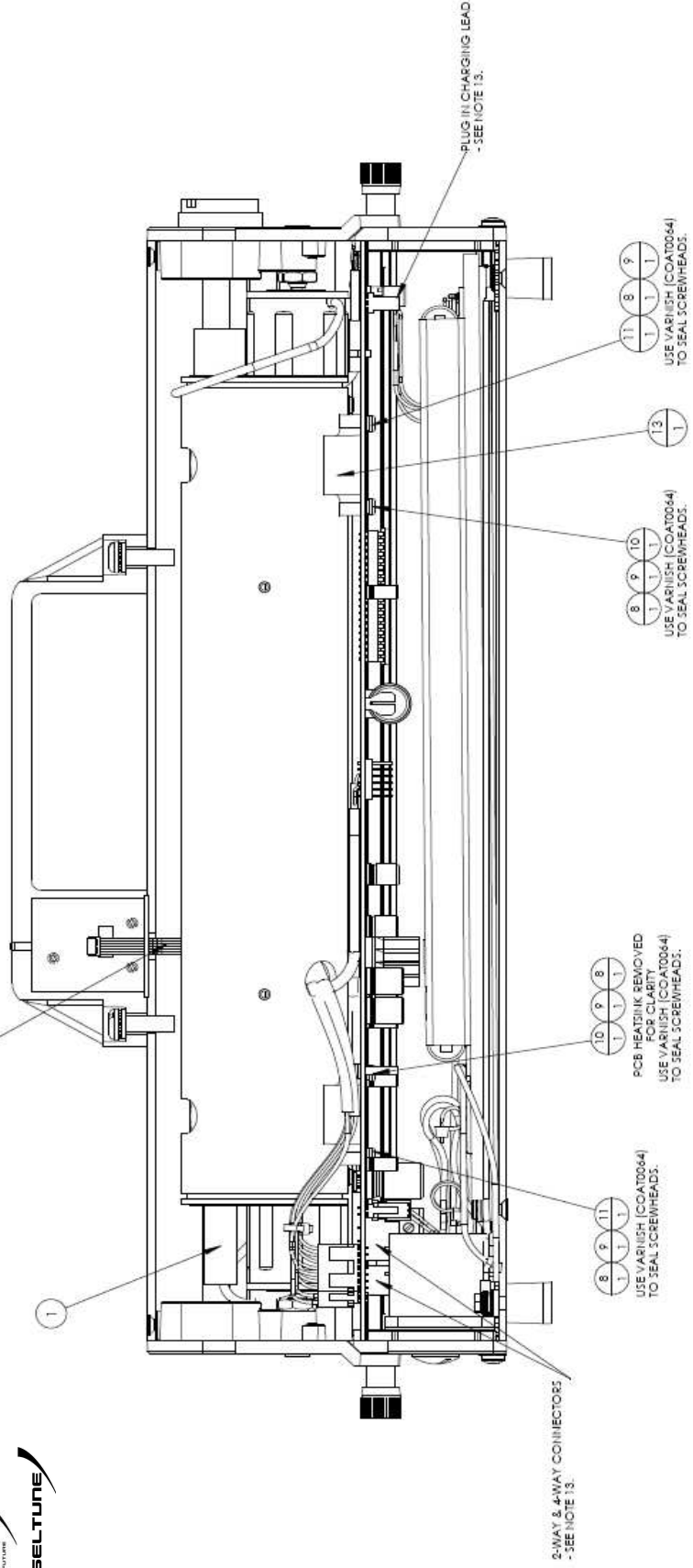
PLUG ORIENTATION
PHOTODIODE HOUSING

DETAIL - B

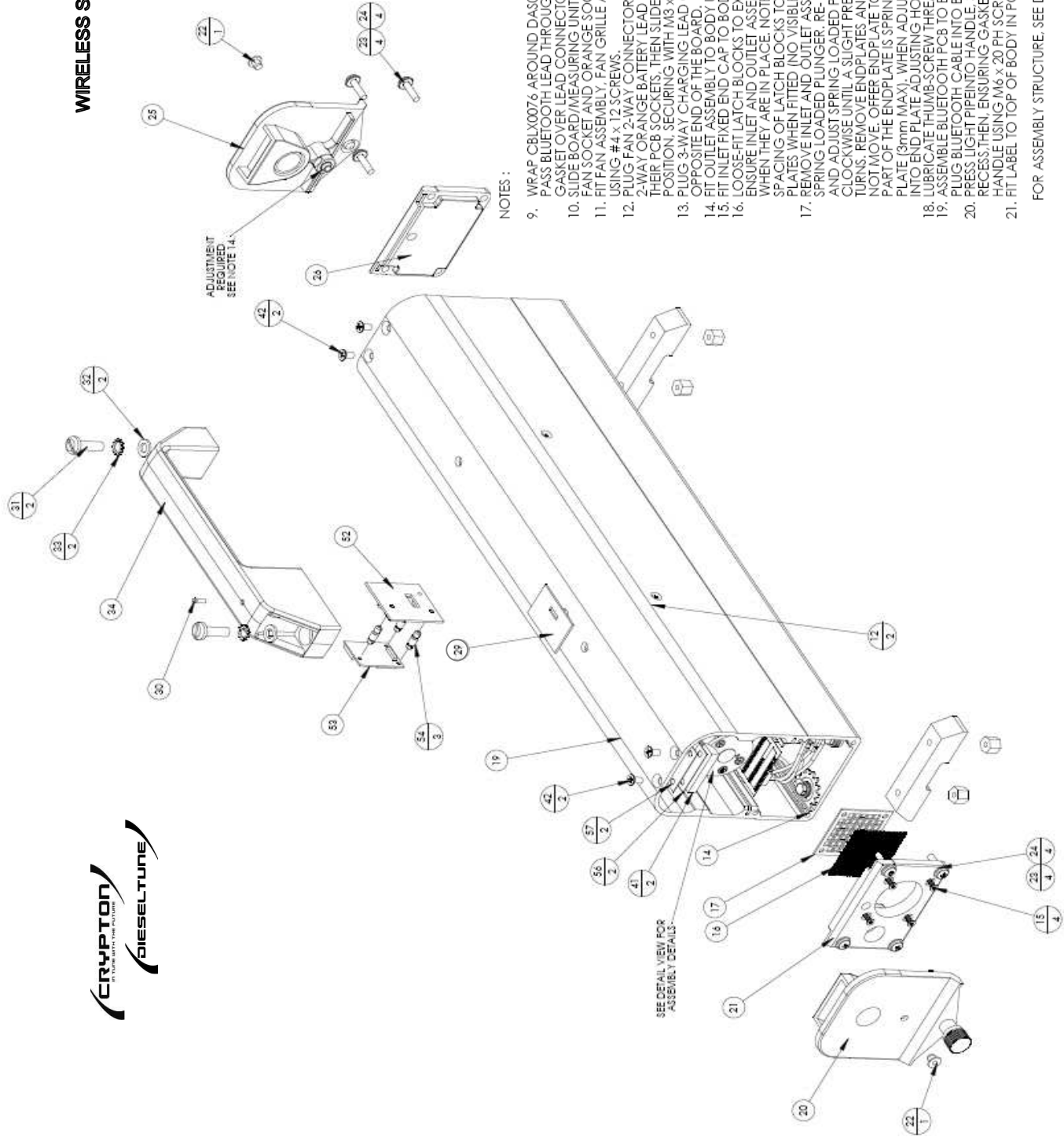
IDENTIFY ARROW TIPS ON BOTH HOUSING CARS WITH WHITE PEN

WIRELESS SMOKEHEAD DX 260-1BT

WRAP CBL00075 (SPIRAL WRAP) AROUND DX5000294
(WRAP TO BE STRETCHED BETWEEN CONNECTORS)



WIRELESS SMOKEHEAD DX 260-1BT

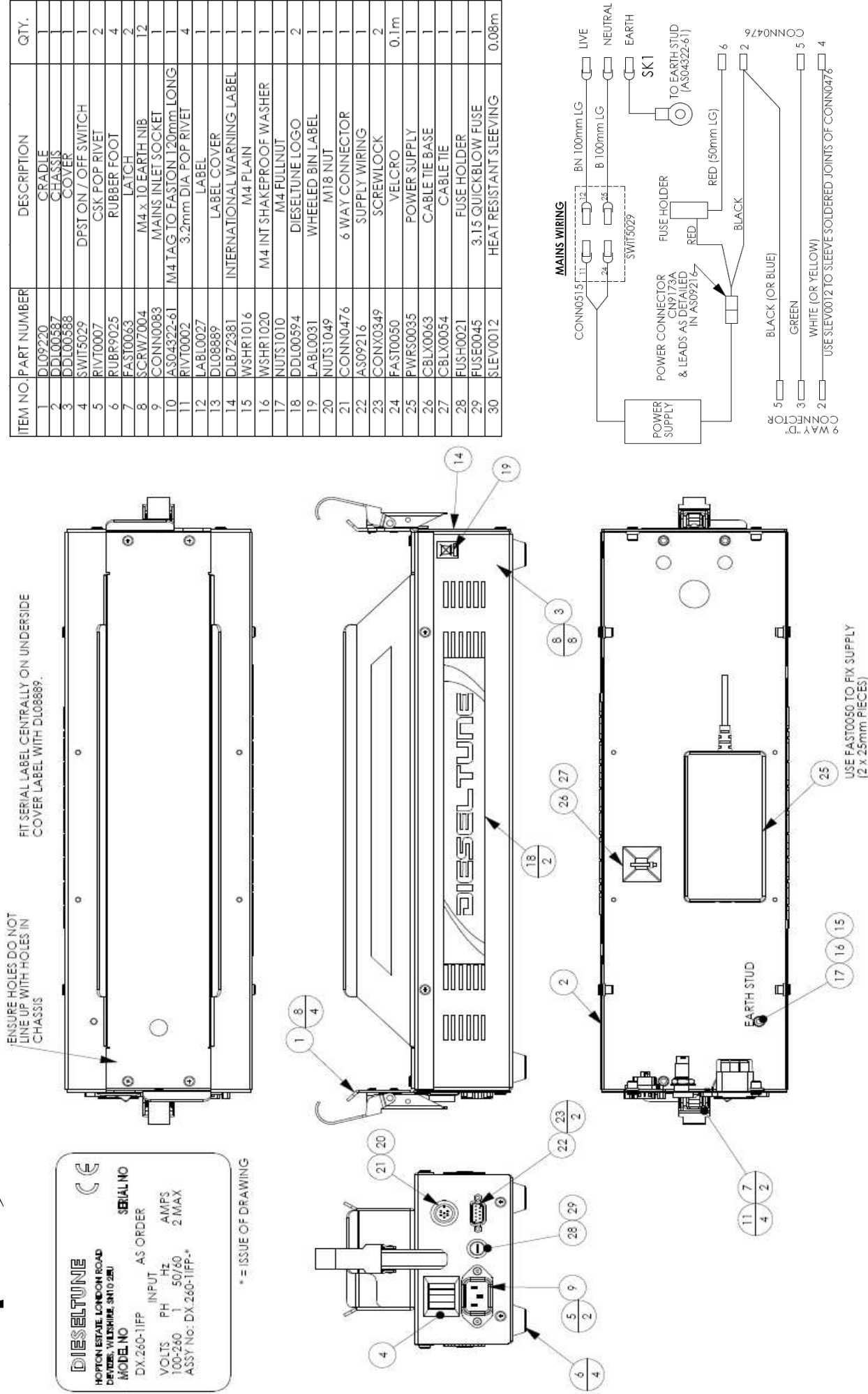


NOTES :

9. WRAP CBLX0076 AROUND DAS0094 (SLIGHTLY STRETCHED BETWEEN CONNECTORS, PASS BLUETOOTH LEAD THROUGH HOLE IN TOP OF EXTRUSION, AND SLIDE GASKET OVER LEAD CONNECTOR ABOVE EXTRUSION.
10. SLIDE BOARD/MEASURING UNIT PART WAY INTO EXTRUSION, LEAVING 2-WAY FAN SOCKET AND ORANGE SOCKETS AND BLUETOOTH SOCKET EXPOSED.
11. FIT FAN ASSEMBLY, FAN GRILLE AND FAN FILTER TO FIXED OUTLET ASSEMBLY USING #4 x 12 SCREWS.
12. PLUG FAN 2-WAY CONNECTOR HEAD, CABLE ORANGE 4-WAY CONNECTOR, 2-WAY ORANGE BATTERY LEAD CONNECTOR, AND BLUETOOTH LEAD INTO THEIR PCB SOCKETS, THEN SLIDE BOARD AND MEASURING UNIT ASSEMBLY INTO POSITION, SECURING WITH M3 x 10 CSK SCREWS.
13. PLUG 3-WAY CHARGING LEAD CONNECTOR INTO BOARD SOCKET AT THE OPPOSITE END OF THE BOARD.
14. FIT OUTLET ASSEMBLY TO BODY USING M4 x 16 POZI SCREWS AND M4 WASHERS.
15. FIT INLET FIXED END CAP TO BODY USING M4 x 16 SCREWS AND M4 WASHERS.
16. LOOSE-FIT LATCH BLOCKS TO EXTRUSION WITH M4 x 8 CSK SCREWS. ENSURE INLET AND OUTLET ASSEMBLIES CAN BE FITTED TIGHTENING SCREWS WHEN THEY ARE IN PLACE. NOTE - SHIMS TO BE SELECTED ON FINAL ASSEMBLY FOR CORRECT SPACING OF LATCH BLOCKS TO ENSURE GOOD SEALING OF REMOVEABLE INLET/OUTLET PLATES WHEN FITTED (NO VISIBLE AIR GAP OR SLOP) AND TO ALLOW UNHINDERED REMOVAL.
17. REMOVE INLET AND OUTLET ASSEMBLIES AND SLACKEN THE LOCKNUT ON THE SPRING LOADED PLUNGER. RE-FIT INLET AND OUTLET ASSEMBLIES TO EXTRUSION, AND ADJUST SPRING LOADED PLUNGER THROUGH END CAP HOLE BY TURNING CLOCKWISE UNTIL A SLIGHT PRESSURE IS FELT, THEN TURNING A FURTHER TWO TURNS. REMOVE ENDPLATES AND TIGHTEN LOCKNUT ENSURING PLUNGER DOES NOT MOVE. OFFER ENDPLATE TO EXTRUSION AND CHECK THAT THE LOWEST PART OF THE ENDPLATE IS SPRING-LOADED 2-3mm AWAY FROM THE LOWER PLATE (3mm MAX). WHEN ADJUSTMENT IS COMPLETE, FIT BLANKING PLUGS(8) INTO END PLATE ADJUSTING HOLE.
18. LUBRICATE THUMB-SCREW THREADS WITH SILICONE GREASE, AND FIT PLATES.
19. ASSEMBLE BLUETOOTH PCB TO EXTENSION BOARD WITH BOARD SPACERS, AND PLUG BLUETOOTH CABLE INTO BOARD ASSEMBLY.
20. PRESS LIGHT PIPE INTO HANDLE SLIDE BLUETOOTH BOARD ASSEMBLY INTO HANDLE RECESS THEN, ENSURING GASKET IS SEATED INTO ITS RECESS IN HANDLE BASE, FIT HANDLE USING M6 x 20 PH SCREWS, M6 WASHERS AND M6 SHAKEPROOF WASHERS.
21. FIT LABEL TO TOP OF BODY IN POSITION SHOWN, COVERING WITH LABEL COVER.

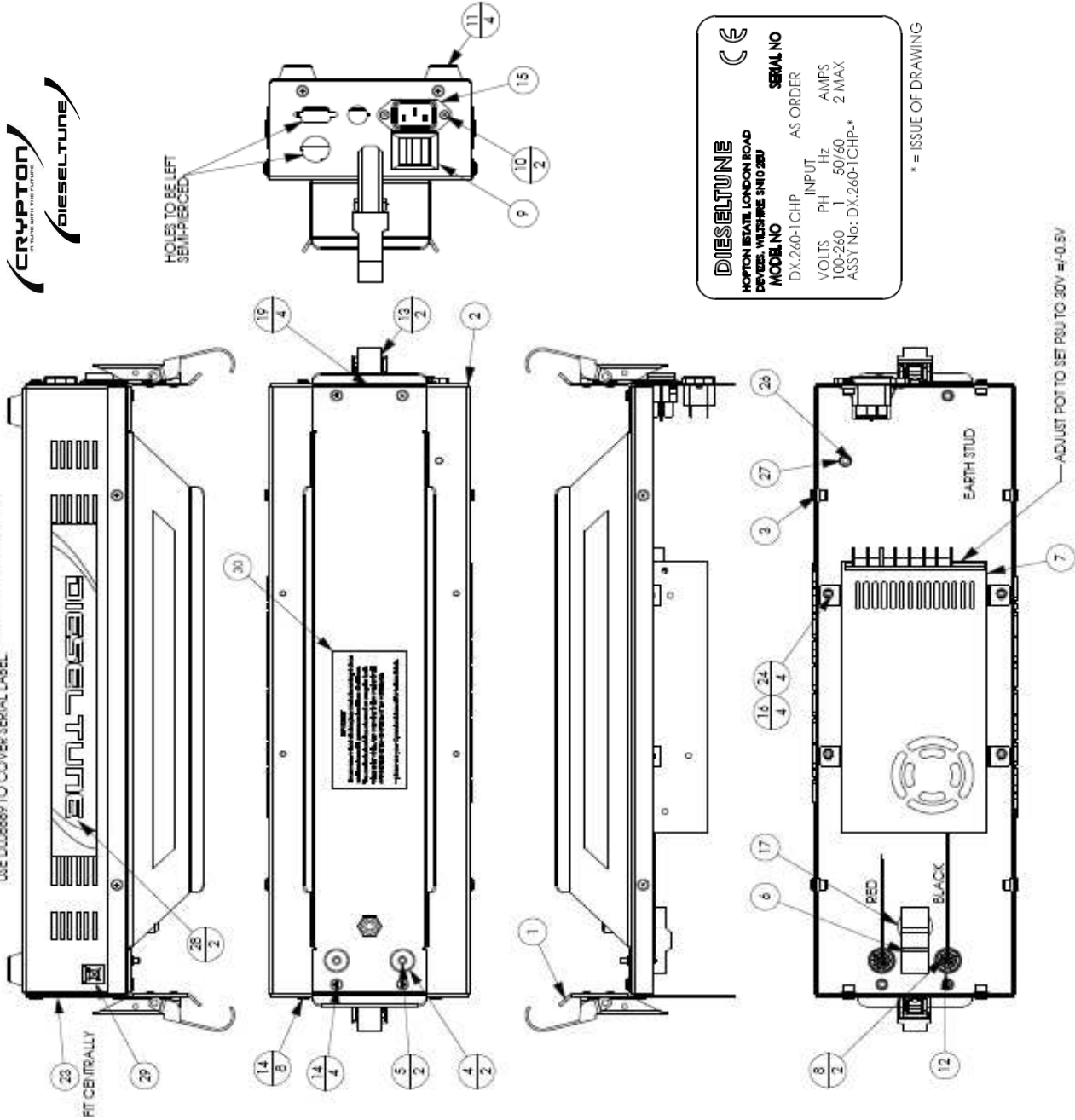
FOR ASSEMBLY STRUCTURE, SEE DNF00512 FAMILY TREE.

CABLED SMOKEHEAD INTERFACE BOX DX 260-11FP

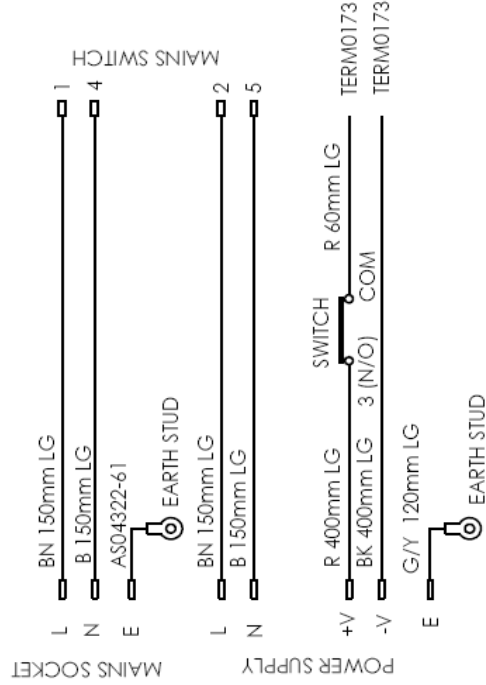


WIRELESS SMOKEHEAD CHARGING BASE DX 260-1CHP

SERIAL NUMBER FITTED ON CENTRALLY ON UNDERSIDE OF UNIT.
USE DL08889 TO COVER SERIAL LABEL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DDL00589	GRADLE	1
2	DDL00587	CHASSIS	1
3	DDL00588	COVER	1
4	DDL00590	CONTACT BLOCK	2
5	TERM0173	4mm DOMED CONTACT	2
6	SWIT5055	SPDT SWITCH	1
7	PWR50031	POWER SUPPLY	1
8	WSHR1082	5mm PUSH ON FIXING	2
9	SWIT5029	DPST ON / OFF SWITCH	1
10	RVT0007	CSK POP RIVET	2
11	RUBR9025	RUBBER FOOT	4
12	WSHR1087	10mm PUSH ON FIXING	2
13	FAST0063	LATCH	2
14	SCRW7004	M4 x 10 EARTH NIB	12
15	CONN0083	MAINS INLET SOCKET	1
16	WSHR1010	M3 PLAIN WASHER	4
17	WSHR1086	M12 FLAT WASHER FORM B	1
18	AS04322-61	M4 TAG TO FASTON 120mm LONG	1
19	RVT0002	3.2mm DIA POP RIVET	4
20	DAS00593	SUPPLY WIRING	1
21	LABL0027	LABEL	1
22	DL08889	LABEL COVER	1
23	DLB72381	INTERNATIONAL WARNING LABEL	1
24	NUTS1006	M3 NYLOC	4
25	WSHR1016	M4 PLAIN	1
26	WSHR1020		1
27	NUTS1010	M4 FULLNUT	1
28	DDL00594	DIESEL TUNE LOGO	2
29	LABL0031	WHEELED BIN LABEL	1
30	DL09338	CONTACTS WARNING LABEL	1



DIESEL TUNE
HOPTON ESTATE LONDON ROAD
DEVON, WILSHIRE SN10 2BU

MODEL NO
DX.260-1CHP

SERIAL NO
AS ORDER

INPUT
VOLTS 100-260
PH 50/60
Hz 2 MAX

AMPS
2 MAX

ASSY No: DX.260-1CHP-*

* = ISSUE OF DRAWING

ORDERING OF DX.260-1 SMOKEHEAD PROCESSOR BOARD AS A SPARE PART

To replace the processor board in the field the board needs to be configured for the market it is intended for. Please use the following numbers to order the variant you require:

PSA80522	Crypton (UK)
PSA80523	Holland
PSA80524	Belgium (TAE)
PSA80525	Denmark
PSA80527	Export Hartridge
PSA80528	Hong Kong
PSA80529	South Africa
PSA80530	India
PSA80536	Germany



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Tel: +44 (0)1278 436226