



BLICK TELEFUSION COMMUNICATIONS LTD.

PARTS LOCATION SCHEDULE.

ITEM	PART No.	Qty.	DESCRIPTION OF PART	CIRCUIT/DRG REFERENCE
1	011048AR	1	PCB	
2	010494	1	PCB ASSEMBLY. 3 BUTTON SWITCH BOARD	
3	010221	1	ASSEMBLY OF LCD TO HEATSEAL	
4			431013 LCD	
5			010073 HEATSEAL	
6				
7	010503	3	CHARGING CONTACT SPRINGS	
8				
9				
10	750018	1	RESONATOR 400kHz	XTL1
11	010671	1	CRYSTAL. HC49/4H 4.0 MHz	XTL3
12	710005	1	MICA INSULATOR	FOR XTL3
13	121070	1	SOCKET. 6 WAY 0.1" PITCH	SKT1
14	121082	1	SOCKET. 5 WAY 0.1" PITCH	SKT5
15	122056	1	SOCKET. ZIF 4 WAY 1mm PITCH	PL3
16	433025	1	LED. RED LOW CURRENT	LED
17	870001	1	POLYPENCO. CUT TO 1.5mm ± 0.5	FOR LED
18				
19	560017	1	SOUNDER. STAR 1.5V	BP1
20				
21	010996	1	BARCODE LABEL	SEE MQD FOR CONTENT
22				
23				
24				
25				
26			SEE SHEETS 2 & 3 FOR SURFACE MOUNT PARTS	
27				
28				
29				
30			*** OPTIONAL PARTS ***	
31	517006	1	TILT SWITCH (UHF VERSIONS ONLY)	SW5
32				
33	011005	1	VIBRATOR SUB-BOARD (UHF VERSIONS ONLY)	
34	191039	1	FOAM PAD FOR VIBRATOR OPTION	
35				
36				
37				
38				
39				
40				

COMMENTS:

DRAWING RELEASE LEVEL:-
PRE-PRODUCTION

Iss.	Change	Drn.	Date	Iss.	Change	Drn.	Date	Drn. By	Signed	Dated
A	PROTO PCB ISS.A	P.H.S	16.1.97	1	DRL107/1 ISS.1 PCB	P.H.S	30.9.97	D.O Ckd	P. Sabin	10.5.98
B	PUI-P2048-A-B.ISS.B	P.H.S	5.6.97	2	EDC1705 ISS.2 PCB	P.H.S	10.3.98	R&D Ckd	11/3/98	
C	PUI-P2048-B-C.ISS.C	P.H.S	2.7.97					Q.A Ckd	11.3.98	
D	PUI-P2048-C-D.ISS.D	P.H.S	21.7.97					Used on	GPM	
Drg. Title : GUARDIAN PROCESSOR BOARD								Drg. No. 011048/PS		
PART LOCATION SCHEDULE								Sht. 1 of 3		



BLICK TELEFUSION COMMUNICATIONS LTD.

PARTS LOCATION SCHEDULE.

ITEM	PART No.	Qty.	DESCRIPTION OF PART	CIRCUIT/DRG REFERENCE
41	SM011048		SURFACE MOUNT SET CONSISTING OF:-	
42	537000	3	INDUCTOR. 22uH. 1210	L2,4,7
43	537013	1	INDUCTOR. 100nH. 1008	L11
44	538002	4	INDUCTOR. BLM21A10. 0805	L3,8,9,10
45				
46				
47	417010	6	DIODE. BAS16WT1. SOT323	D1,2,3,6,8,9
48	417009	2	DIODE. BAT54WT1. SOT323	D7,10
49	419001	1	DIODE. ZENER. BZX84-C5V1. SOT23	ZD1
50	447029	5	TRANSISTOR. BC858AW. SOT323	Q4,6,7,8,13
51	447030	8	TRANSISTOR. BC848BW. SOT323	Q1,5,14,15,17,20,22,23
52	447028	3	TRANSISTOR. BC808-40W. SOT323	Q16,19,21
53	468005	1	IC. HD407L4818 (PROG). FP80B	IC1
54	468052	1*	IC. NE630D. SO8	IC11
55	469033-005	1	IC. PIC16C84. (PROG). SO18L	IC6
56	461031	1	IC. RN5RL27A. SOT23-5	IC10
57	461043	1	IC. RN5VL30A. SOT23-5	IC2
58	461034	1	IC. S-80727SN. SOT23-5	IC8
59	461028	1	IC. S-81332HG. SOT89	IC3
60	461033	1	IC. S-81230SG. SOT23-5	IC4
61	468005	1	IC. XLS93CS46. SO8	IC7
62				
63				
64				
65	272015	4	CAPACITOR. CER. 15p. 0603	C26,27,33,34
66	272021	1	CAPACITOR. CER. 47p. 0603	C55
67	272028	1	CAPACITOR. CER. 180p. 0603	C31
68	272034	1	CAPACITOR. CER. 560p. 0603	C32
69	272037	8	CAPACITOR. CER. 1n0. 0603	C2,3,4,5,43,46,47,49
70	272049	5	CAPACITOR. CER. 10n. 0603	C29,50,51,52,53
71	271061-001	1	CAPACITOR. CER. 100n. 0805	C25
72	273015	2	CAPACITOR. TANT. 1u0. 16V. CASE 'A'	C28,48
73	273020	3	CAPACITOR. TANT. 6u8. 6V3. CASE 'B2'	C6,30,54
74	274026-001	1	CAPACITOR. ALUMINIUM.ELEC.47u. 6V3	C1
75				
76				
77	386086	8	RESISTOR. 0R0. 0603	LK6,7,R57,65,82#,90,91,92
78	385086	2	RESISTOR. 0R0. 0805	LK4,R17
79	386013	1	RESISTOR. 10R. 0603	R51
80	385016	1	RESISTOR. 18R. 0805	R77

COMMENTS: * REMOVE IC11 IF USED IN GPM23 # FIT R82 AFTER PIC PROGRAM

DRAWING RELEASE LEVEL:-
PRE-PRODUCTION

Iss.	Change	Drn.	Date	Iss.	Change	Drn.	Date	Drn. By	Signed	Dated
A	PROTO PCB ISS A	P.H.S	16.1.97	1	DRL107/1 ISS 1 PCB	P.H.S	30.9.97	D.O Ckd	<i>P. S. G. in</i>	16.1.97
B	PUI-PZ048-A-B ISS B	P.H.S	5.6.97	2	BDC1705 ISS 2 PCB	P.H.S	10.3.98	R&D Ckd	<i>R. S. G. in</i>	11.3.98
C	PUI-PZ048-B-C ISS C	P.H.S	2.7.97					Q.A Ckd	<i>R. S. G. in</i>	11.3.98
D	PUI-PZ048-C-D ISS D	P.H.S	21.7.97					Used on	GPM	

Drg. Title : GUARDIAN PROCESSOR BOARD
PART LOCATION SCHEDULE

Drg. No. 011048/PS

Sht. 2 of 3



BLICK TELEFUSION COMMUNICATIONS LTD. PARTS LOCATION SCHEDULE.

ITEM	PART No.	Qty.	DESCRIPTION OF PART	CIRCUIT/DRG REFERENCE
81			**SURFACE MOUNT PARTS CONTINUED**	
82	386021	1	RESISTOR. 47R. 0603	R76
83	385023	1	RESISTOR. 68R. 0805	R53
84	385025	1	RESISTOR. 100R. 0805	R54
85	386030	1	RESISTOR. 270R. 0603	R19
86	386033	1	RESISTOR. 470R. 0603	R50
87	386037	2	RESISTOR. 1k0. 0603	R70,87
88	386039	1	RESISTOR. 1k5. 0603	R49
89	386045	7	RESISTOR. 4k7. 0603	R18,48,52,59,75,84,85
90	386049	6	RESISTOR. 10k. 0603	R44,45,56,80,81,86
91	386053	1	RESISTOR. 22k. 0603	R42
92	386055	2	RESISTOR. 33k. 0603	R68, 88
93	386057	5	RESISTOR. 47k. 0603	R46,47,66,67,83
94	386061	12	RESISTOR. 100k. 0603	R2,3,4,8,15,16,20,21,74,78,79,89
95	386067	1	RESISTOR. 330k. 0603	R12
96	386069	1	RESISTOR. 470k. 0603	R22
97	386073	6	RESISTOR. 1M0. 0603	R5,6,7,11,55,58
98				
99	383002	1	PRESET. 50k. SIZE RVG4	RV2
100				
101				
102	597101	2	BACKLIGHT LAMP. SM	LP1,2
103	710003	1	CRYSTAL. SM. 32kHz.ASX	XTL2
104				
105			FREQUENCY DEPENDANT COMPONENTS:-	
106				
107		*	BAND 1 (VHF)	
108	385086	2	RESISTOR. 0R0. 0805	L12,13
109				
110		*	BAND 3 (UHF)	
111	386086	1	RESISTOR. 0R0. 0603	LK5
112	272012	1	CAPACITOR. CER. 8p2. 0603	C56
113	272014	1	CAPACITOR. CER. 12p. 0603	C57
114	272015	1	CAPACITOR. CER. 15p. 0603	C58
115	537044	2	INDUCTOR. 12nH. 0805	L12,13
116				
117				
118				
119				
120				

COMMENTS: * FIT LK5 FOR UHF VERSIONS ONLY

DRAWING RELEASE LEVEL:-
PRE-PRODUCTION

Iss.	Change	Drn.	Date	Iss.	Change	Drn.	Date	Drn. By	Signed	Dated
A	PROTO.PCB ISS.A	P.H.S	16.1.97	1	DRL107/1. ISS.1 PCB	P.H.S	30.9.97	D.O Ckd	P. Selin	16.1.97
B	PUI-PZ048-A-B.ISS.B	P.H.S	5.6.97	2	EDC1705 ISS 2 PCB	P.H.S	10.3.98	R&D Ckd	M. P. Selin	10.3.98
C	PUI-PZ048-B-C.ISS.C	P.H.S	2.7.97					Q.A Ckd	K.S.D.S	11/3/98
D	PUI-PZ048-C-D.ISS.D	P.H.S	21.7.97					Used on	GPM	11.3.98

Drg. Title : GUARDIAN PROCESSOR BOARD
PART LOCATION SCHEDULE

Drg. No. 011048/PS

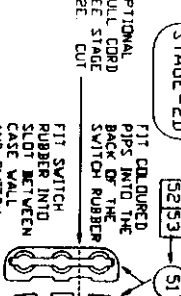
Sht. 3 of 3

THIS MUST BE FITTED IN THE CASE BEFORE FITTING THE PCB ASSEMBLY

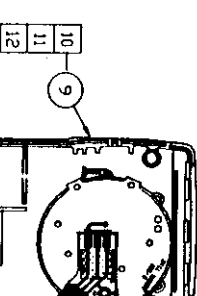


F17 COLOURED

PUT COLOURED PIPS INTO THE BACK OF THE SWITCH RUBBER



AND SWITCH PCB.



FLEX-CIRCUIT

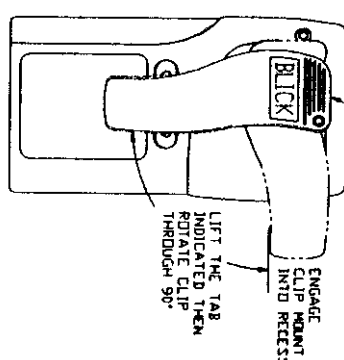
OPEN

CLOSE

PLUG FLEX-CIRCUIT INTO SOCKET AND

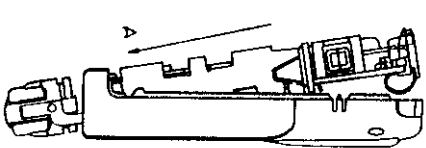
DRAWING RELEASE-PRE-PERIOD

55
56 57 58 59



NOTE-- NO NOT FIT CLIP IF ONBOARD PIC PROGRAMMING IS REQUIRED

WARNING: OBSERVE ELECTROSTATIC PRECAUTIONS. SEE QP.18.



UHF AERIAL (OPTIONAL)
SOLDER TO PCB SEE DRG 001914
LEG IN THE CORNER OF THE CAST
CAST PARTLY SECTIONED
PATIAL AERIAL MOUNTING BLOCK
LOCATE CHASSIS
FIT THE ASSEMBLED PERS INTO THE CASE BACK

0000000
0000000

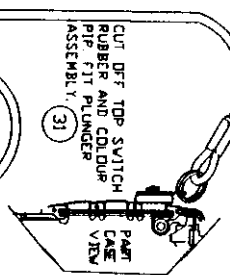
IF A UHF AERIAL IS FITTED, ENSURE THAT THE LEG IS POSITIONED AS SHOWN & WILL NOT BE PINCHED OR TRAPPED BY THE ID FRAME.
NEXT SLIDE THE BOTTOM END OF THE UHF AERIAL INTO THE CASE THROUGH THE OPENING IN THE CAST. BACK NEXT LENGTH THE UHF END OF THE CAST ENSURING THAT THE CHASSIS LOCATES INTO THE GUIDES IN THE CAST BACK.

IF A UHF AERIAL IS FITTED, SOLDER THE LEG TO THE CONTACT PAD ON THE UPPER PCB SEE DRG 001914.

ENSURE THAT SOLDER DUCT HAS NOT BEEN SHOWN IN CASE.

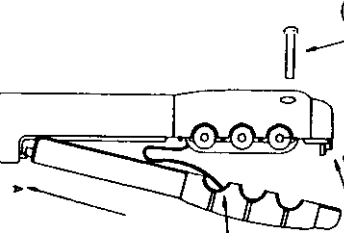
STAGE-2E

PULL CORD
DP 710N



STAGE-2

LOCATE AND
TIGHTEN THE
TWO CASE SCREWS



AFTER ASSEMBLY, CHECK THAT THERE ARE NO CASE GAPS - THESE INDICATE AN ASSEMBLY PROBLEM.

STAGE-20

MARKS VIS
LENGTH DA
SURFACES.

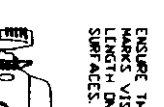


Diagram illustrating a cable with a label and a connector. The label is marked with the text: "FIT TYPE/SERIAL LABEL INFO RECESS FIT COVER AA". The connector is marked with the text: "FIT LITENET EXEMPT LABEL INFO RECESS". The cable is labeled "72 75".

Autocall

STAGE-2A

IF A UHF AERIAL IS REQUIRED THIS MUST BE FITTED IN THE CASE BEFORE FITTING THE PCB ASSEMBLY.

STAGE-2B

NOTE: THIS ENTIRE STAGE MAY BE LEFT AND ACTIONED AT THE SAME TIME AS STAGE 2F.

STAGE-2C

WARNING: OBSERVE ELECTROSTATIC PRECAUTIONS. SEE GP18.

STAGE-2D

STAGE-2E

STAGE-2F

STAGE-2G

74 FIRST FIT SCREWER

BEFORE FITTING THE PCB ASSEMBLY INTO THE CASE, ENSURE THAT ALL SEVEN CHASSIS TO PCB LATCHES ARE PROPERLY ENGAGED OVER THE PCB EDGES.

ALSO ENSURE THAT THE RAT-TAIL AERIAL MOUNTING BLOCK IS IN THE CORRECT POSITION AT THE BOTTOM END ON THE PCB CHASSIS (SEE DRG 00094/00094 SHIT 1)

TO FIT THE ASSEMBLED PCB INTO THE CASE BACK:-

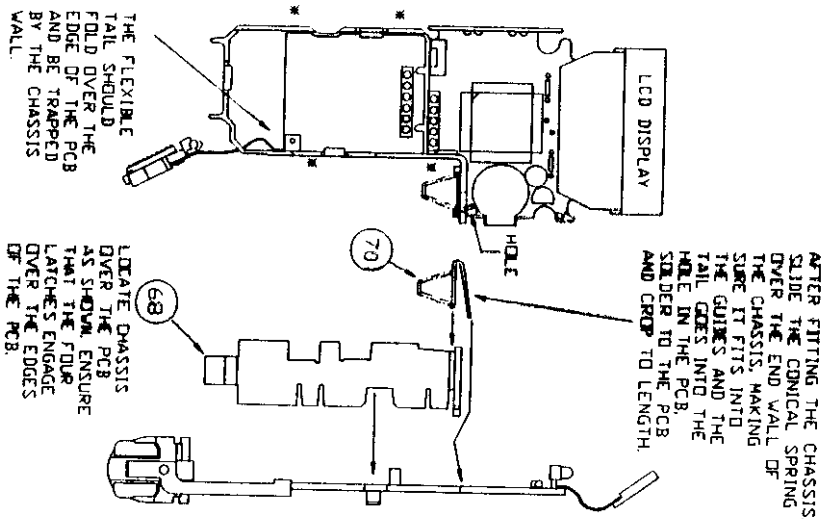
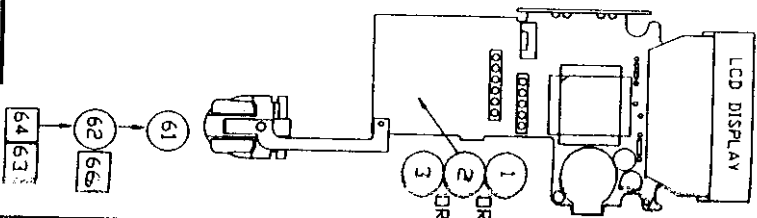
IF A UHF AERIAL IS FITTED, ENSURE THAT THE LEG IS POSITIONED AS SHOWN & WILL NOT BE PINCHED OR TRAPPED BY PCB OR FRAME.

NEXT SLIDE THE BOTTOM END 'A' UNDER THE LIP AND INTO THE CASE LETTING THE BATTERY DOOR GO BACK NEXT LINGER THE TOP END 'B' INTO THE CASE ENSURING THAT THE CHASSIS LOCATES INTO THE GUIDES IN THE CASE BACK.

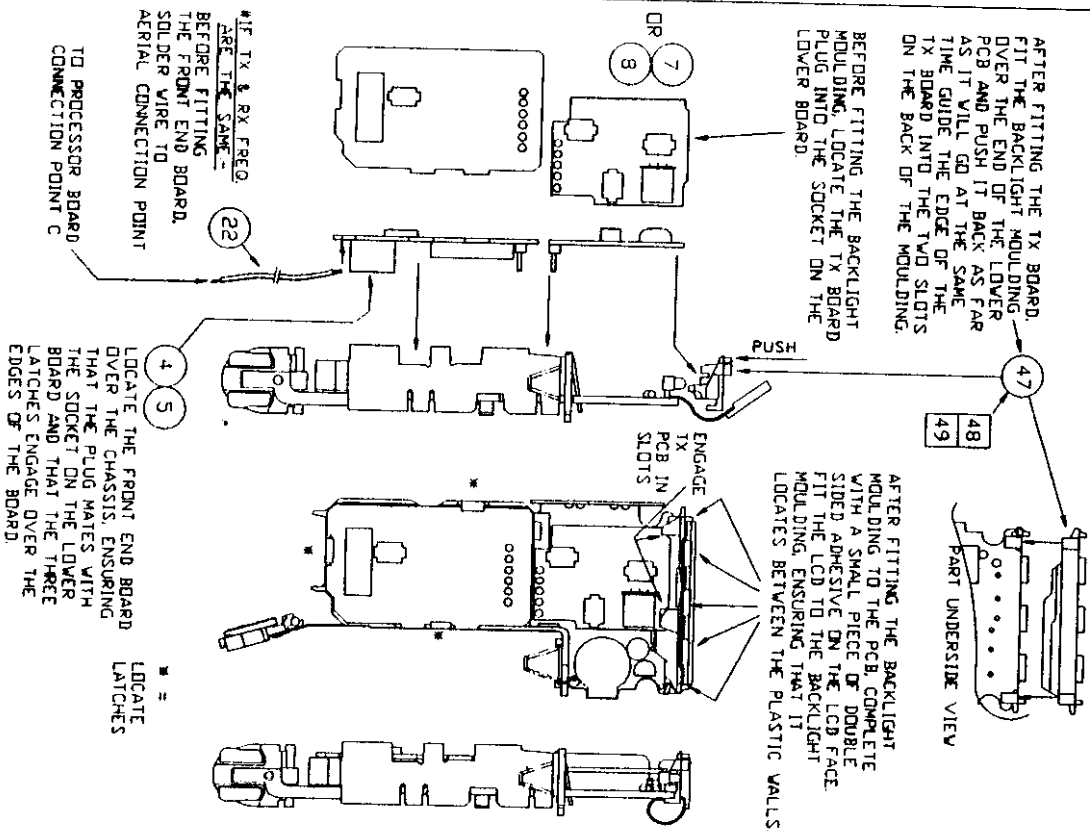
IF A UHF AERIAL IS FITTED, SLIDER THE LEG TO THE CORRECT PAD ON THE UPPER PCB SEE DRG 00094.

ENSURE THAT SCREWER DO NOT BEING DAMAGED ON CASE.

STAGE-1B



STAGE-1C



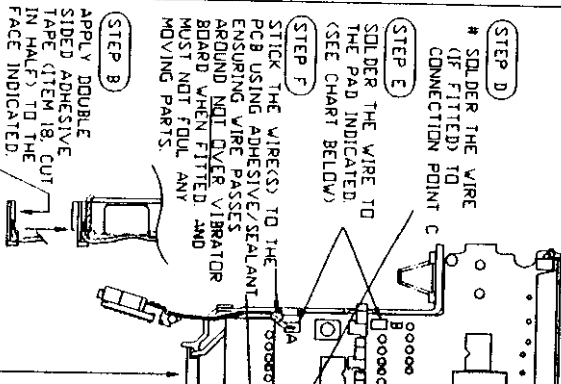
WARNING: OBSERVE ELECTROSTATIC PRECAUTIONS. SEE OP.18

(xx) = ASSEMBLED PARTS

XX = PREASSEMBLED ITEMS

STAGE-1D
CASE ASSE
CONTINUED
DRG GPM2/3/MA

VIEW ON CARD



POSITION
AERIAL M
THE END
CHASSIS
THE CHAS
ON THE L
THE MOUNT

(18)

(16)

(17) (19)

DR

STEP A

SOLDER ONE END OF
THE WIRE TO AERIAL
MOUNT IN THE POSITION
INDICATED.

END ON VIEW

AERIAL CONNECTION POINTS A,B &
FOR RX & TX ON SAME FREQUENCY
CONNECT WIRE FROM FRONT END TO POINT
CONNECT RAIL AERIAL TO POINT A
USING WIRE ITEM 19
PLATE AERIAL IS NOT REQUIRED

FOR ALL OTHER MODES
CONNECT PLATE AERIAL DIRECTLY TO FRO
CONNECT RAIL AERIAL TO POINT 8
USING WIRE ITEM 17

EX2 80W T/F:01392-204106 Fax:01392

Drug No.

[illegible]

No. 10101	Drn PHS
Finish	Date 6.6.97
Projection	DD Crd
	Date 11.3.98
	RSB
	Doc't
	QA Crd
	<i>[Signature]</i>

15 Cotton Rd. Exeter, EX2 8QW. T/01392-204100. FAX/01392-204100.	15 Cotton Rd. Exeter, EX2 8QW. T/01392-204100. FAX/01392-204100.
Used on: GAM SERIES	Used on: GAM SERIES
Title:	DrgNo.
MAIN ASSEMBLY	



BLICK COMMUNICATIONS LTD.

PARTS LOCATION SCHEDULE.

ITEM	PART No.	Qty.	DESCRIPTION OF PART	CIRCUIT/DRG REFERENCE
1	011048 *	1	PCB ASSEMBLY. PROCESSOR BOARD. STANDARD	
2	011048-T *	1	PCB ASSEMBLY. PROCESSOR BOARD + TILT	UHF ONLY
3	011048-V *	1	PCB ASSEMBLY. PROCESSOR BOARD + VIBRATOR	UHF ONLY
4	010660 *	1	PCB ASSEMBLY. VHF F. END BOARD DATA ONLY	
5	010914 *	1	PCB ASSEMBLY. UHF F. END BOARD DATA ONLY	
6	010554 *	1	UHF AERIAL	
7	010557 *	1	PCB ASSEMBLY. VHF TRANSMITTER BOARD	
8	010815 *	1	PCB ASSEMBLY. UHF TRANSMITTER BOARD	
9	010970-G	1	CASE FRONT ASSEMBLY. MINDER	
10			010811 1 CASE FRONT MOULDING	
11			010810 1 BUTTON	
12			010812 1 PCB ASSEMBLY	
13				
14			-----	
15	010407	1	DISPLAY LENS. CLEAR	
16	010562	1	AERIAL MOUNT FOR RAT TAIL	
17	007122-108	1	WIRE. 24/0.07 BLACK 60mm LONG	FIT IF TX/RX FRQ DIFFERENT
18	191045	0.5	TAPE. DOUBLE SIDED ADHESIVE. 6 x 9mm	CUT TAPE TO 6 x 4.5mm
19	007122-106	1	WIRE. 24/0.07 BLACK 40mm LONG	FIT IF TX/RX ARE THE SAME
20	010552- *	1	ASSEMBLY. RAT-TAIL TX AERIAL	
21			(CUT TO CORRECT LENGTH)	
22	007122-106	1	WIRE. 24/0.07 BLACK 40mm LONG	FIT IF TX/RX ARE THE SAME
23	151001 *	1	BATTERY. 3.6V 100mA RECHARGEABLE	
24				
25				
26				
27				
28				
29				
30	010873-A *	1	LANYARD ASSEMBLY-MINDER	
31	010858 *	1	PULL CORD ASSEMBLY & PLUNGER	
32				
33				
34				
35				
36				
37				
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39				
40				

COMMENTS:

DRAWING RELEASE LEVEL:-
PRE-PRODUCTION

Iss.	Change	Drn.	Date	Iss.	Change	Drn.	Date	Drn. By	Signed	Dated
A	PROTOTYPE	P.H.S	9.6.97	3	EDC1705	P.H.S	10.3.98	D.O Ckd	P. S. S. S.	9.6.97
B	OPTIONS+LABELS	P.H.S	7.8.97					R&D Ckd	P. S. S. S.	10.3.98
1	DRL107/1	P.H.S	1.10.97					Q.A Ckd	P. S. S. S.	11/3/98
2	EDC1670 CASE	P.H.S	24.10.97					Used on	GPM SERIES	
Drg. Title : GEMINI GUARDIAN TRANSCEIVER PART LOCATION SCHEDULE								Drg. No. GPM2/3/PS Sht. 1 of 2		



BLICK COMMUNICATIONS LTD. PARTS LOCATION SCHEDULE.

ITEM	PART No.	Qty.	DESCRIPTION OF PART	CIRCUIT/DRG REFERENCE
41				
42	011055	1	CASE BACK. (CLIP SIDE)	
43			010484 3 CHARGING CONTACTS	
44				
45				
46			-----	
47	010411-A	1	ASSEMBLY. BACKLIGHT & ADHESIVE	
48			010411 1 BACKLIGHT ADHESIVE	
49			191031 1 DOUBLE SIDED S/ADH TAPE	
50			-----	
51	010497-A	1	ASSEMBLY. TX SWITCH RUBBER & COLOUR PIP	
52			010497 1 SWITCH RUBBER TX VER	
53			010496 1 SWITCH COLOUR PIPS	
54			-----	
55	010568	1	ASSEMBLY. CASE CLIP & MOUNT	
56			010403 1 CASE CLIP	
57			010404 1 CLIP MOUNT	
58			143015 1 SPIROL PIN	
59			010486 1 CLIP SPRING	
60			-----	
61	010670	1	ASSEMBLY. BATTERY DOOR & CONTACT	
62			010409-A 1 ASSEMBLY BATTERY DOOR	
63			010409 1 DOOR LOCK	
64			010408 1 DOOR HINGE	
65				
66			010655 1 FLEXI BATTERY TAIL	
67			-----	
68	010410	1	PCB CHASSIS FRAME	
69	010412	1	LED LENS	
70	010481	1	CONICAL SPRING	
71	631006	2	SCREW. M2 x 12mm. PAN. POZI	
72	010488 #	1	LABEL. CASE BOTTOM	
73	011177	1	LABEL. LICENCE EXEMPT	
74	011041	1	SOUNDER DUCT MOULDING	
75	010930	1	LABEL COVERLAY	
76	011178	1	CODING LABEL	
77				
78				
79				
80				

COMMENTS: # = TEXT ACCORDING TO AGENCY AND ORDER

DRAWING RELEASE LEVEL:-
PRE-PRODUCTION

Iss.	Change	Drn.	Date	Iss.	Change	Drn.	Date	Drn. By	Signed	Dated
A	PROTOTYPE	P.H.S	9.6.97					D.O Ckd	P. Sabin	10.3.98
B	OPTIONS & LABELS	P.H.S	7.8.97					R&D Ckd	W. H. H.	11/3/98
1	DRL107/1	P.H.S	1.10.97					Q.A Ckd	K.S.D	11.3.98
2	EDC1705	P.H.S	24.10.97					Used on	GPM SERIES	

Drg. Title : GEMINI GUARDIAN TRANSCEIVER
PART LOCATION SCHEDULE

Drg. No. GPM2/3/PS

Sht. 2 of 2