



MOTOROLA

AARD4050 - 56A-D, G

NRD4050 - 56C/D/G

Advisor

VHF RECEIVER SUPPLEMENT

HISTORY CHART

The chart below shows previous kit information:

REFERENCE SYMBOL	AARD4050A - AARD4056A (ISSUE "O")		AARD4050B - AARD4056B (ISSUE "O")	
	MOTOROLA PART NUMBER	DESCRIPTION	MOTOROLA PART NUMBER	DESCRIPTION
C351	2113740A25	$7.5 \pm 0.25\text{pF}$ (F)	2113740A25	$7.5 \pm 0.25\text{pF}$ (F)
C364	2113740A46	47 pF	2113740A37	22 pF
L351	-----	Not Used	-----	Not Used
U351	5105099Z03	455 kHz I-F/Demodulator	5105099Z03	455 kHz I-F/Demodulator
NONREFERENCED ITEMS				
	8402817X01	CIRCUIT BOARD, Receiver	8402817Z01	CIRCUIT BOARD, Receiver

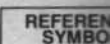
HISTORY CHART

The chart below shows previous kit information:

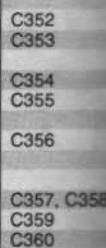
REFERENCE SYMBOL	AARD4050C - AARD4056C (ISSUE "A")		AARD4050D - AARD4056D (ISSUE "A")	
	MOTOROLA PART NUMBER	DESCRIPTION	MOTOROLA PART NUMBER	DESCRIPTION
C351	2113740A24	$6.8 \pm 0.25\text{pF}$ (F, G)	2113740A24	$6.8 \pm 0.25\text{pF}$ (F, G)
C355	2105632D03	$50\text{ pF} \pm 2\%$ (C, D, E, F, G)	2105632D03	$50\text{ pF} \pm 2\%$ (C, D, E, F, G)
C369	2160520S05	$15 \pm 0.25\text{pF}$ (D)	2160520S05	$15 \pm 0.25\text{pF}$ (D)
C371	2113740A28	$9.1 \pm 0.25\text{pF}$	2113740A28	$9.1 \pm 0.25\text{pF}$
C384	2111049A42	$3.3\text{ }\mu\text{F} \pm 10\%$, 6V	2111049A42	$3.3\text{ }\mu\text{F} \pm 10\%$, 6V
C385-C389	2160521D37	$0.1\text{ }\mu\text{H} \pm 10\%$	2160521D37	$0.1\text{ }\mu\text{H} \pm 10\%$
E351	0105982D45	Antenna Assembly (F)	0105982D45	Antenna Assembly (F)
Q351	4805218N03	NPN	4805218N03	NPN
R352	0660076A43	560 Ω	0660076A43	560 Ω
U351	5105099Z22	455 kHz I-F/Demodulator	5105099Z22	455 kHz I-F/Demodulator
NONREFERENCED ITEMS				
	0705196a11	BOOT, (FL351)	0705196a11	BOOT, (FL351)
	1405160A02	INSULATOR, Crystal (Y351)	1405160A02	INSULATOR, Crystal (Y351)

NOTE: Kits AARD4050A-AARD4056A became AARD4050C-AARD4056C in Issue "A".
 Kits AARD4050B-AARD4056B became AARD4050D-AARD4056D in Issue "A".
 Kits AARD4050G-AARD4056G were added in Issue "A".
 Kits NRD4050-NRD4056C/D/G were added in Issue "C".

RECEIVED
AARD/NR
AARD/NR
AARD/NR
AARD/NR
AARD/NR
AARD/NR
AARD/NR



C351



C361

C362
C363

C364
C365
C366
C367
C368
C369

C370

C371
C372
C373
C374
C375 - C37
C380, C38
C382
C383
C384
C385 - C38

CR351

E351

FL351
FL352
FL353

J351

L351
L352, L353
L354
L355

RECEIVER ELECTRICAL PARTS LIST

AARD/NRD4050G	138-143	MHz (A)
AARD/NRD4051G	143-148.6	MHz (B)
AARD/NRD4052G	148.6-152	MHz (C)
AARD/NRD4053G	152-159	MHz (D)
AARD/NRD4054G	159-164	MHz (E)
AARD/NRD4055G	164-169	MHz (F)
AARD/NRD4056G	169-174	MHz (G)

REFERENCE SYMBOL	MOTOROLA PART NUMBER	DESCRIPTION
CAPACITORS: Fixed, pF $\pm 5\%$, 50V unless stated		
C351	2113740A30	11 (A)
or	2113740A29	10 (B)
or	2113740A28	9.1 ± 0.25 (C)
or	2113740A27	8.2 ± 0.25 (D, E)
or	2113740A25	7.5 ± 0.25 (F)
or	2113740A24	6.8 ± 0.25 (G)
C352	2005228J02	2-10, Variable
C353	2113740A31	12 (A, B, C, D, E)
or	2113740A33	15 (F, G)
C354	2113740A29	10
C355	2105157A49	60 $\pm 2\%$ (A, B)
or	2104142F02	50 $\pm 2\%$ (C, D, E, F, G)
C356	2113740A17	3.9 ± 0.25 (A, B, C, D, E)
or	2113740A19	4.7 ± 0.25 (F)
or	2113740A20	5.1 ± 0.25 (G)
C357, C358	2113741A53	0.022 μ F
C359	2113741A45	0.01 μ F
C360	2113740A34	16 (A)
or	2113740A33	15 (B)
or	2113740A32	13 (C, D)
or	2113740A31	12 (E)
or	2113740A29	10 (F)
or	2113740A28	9.1 ± 0.25 (G)
C361	2105632D90	1.4 ± 0.25 (A)
or	2113740A03	1 ± 0.25 (B, C, D, E)
or	2113740A01	0.5 ± 0.1 (F, G)
C362	2113741A45	0.01 μ F
C363	2113740A25	7.5 ± 0.25 (A)
or	2113740A23	6.2 ± 0.25 (B, C)
or	2113740A20	5.1 ± 0.25 (D)
or	2113740A19	4.7 ± 0.25 (E)
or	2113740A17	3.9 ± 0.25 (F)
or	2113740A14	3 ± 0.25 (G)
C364	2113740A46	47
C365	-----	Not Used
C366	2160524A22	39
C367	2160524A15	10 ± 0.25
C368	2113740A03	1.0 ± 0.25 (A, B)
or	2113740A08	1.6 ± 0.25 pF (C, D, E, F, G)
C369	2160520W08	20 $\pm 2\%$ (A)
or	2113740A35	18 (B)
or	2105632D59	16.5 $\pm 2\%$ 25V (C)
or	2113740A33	15 (D)
or	2113740A32	13 (E, F)
or	2113740A31	12 (G)
C370	2113740A11	2.2 ± 0.25 (A, B)
or	2113740A03	1.0 ± 0.25 (C, D, E, F, G)
C371	2113740A30	11
C372	2113740A01	0.5 ± 0.1
C373	2113740A53	82
C374	2113740A40	30
C375 - C379	-----	Not Used
C380, C381	2113741A45	0.01 μ F
C382	2113741B51	0.018 μ F
C383	2113741B41	0.0068 μ F
C384	2111049A60	10 μ F $\pm 20\%$; 4V
C385 - C389	2113743A19	0.1 μ F $\pm 10\%$
DIODES: (See Note 1)		
CR351	4805494Q04	Silicon
ANTENNAS:		
E351	0102713J19	Antenna Assembly (A)
or	0105982D43	Antenna Assembly (B)
or	0105982D44	Antenna Assembly (C)
or	0102713J20	Antenna Assembly (D, E)
or	0105982D46	Antenna Assembly (G, F)
FILTERS:		
FL351	4805620J20	17.9 MHz
FL352	4805368G04	455 kHz, Ceramic
FL353	4805368G03	455 kHz, Ceramic
CONNECTORS:		
J351	0902317J01	8- Pin Connector (fixed)
COILS, RF: unless stated		
L351	-----	Not Used
L352, L353	2405063H22	3 turns
L354	2462587P18	3.3 μ H
L355	2462575A07	10 μ H

L356	2405063H07	10 turns (A, B)
or	2405063H17	15 turns (C)
or	2405063H15	14 turns (D, E)
or	2405063H13	13 turns (F)
or	2405063H11	12 turns (G)
L357	2405063H22	3 turns
L358	2462575A05	4.7 μ H
TRANSISTORS: (See Note 1)		
Q351	4813827A03	NPN
Q352, Q353	4805128M42	NPN
Q354 - Q383	-----	Not Used
Q384	4805128N33	PNP
RESISTORS: Fixed, Ω 5%, 1/8W unless stated		
R351	0660076A77	15k
R352	0660076A72	9.1k
R353	0660076A45	680
R354	0660076A80	20k
R355	0660076A61	3.3k
R356	0660076A41	470
R357	0660776A47	820
R358	0660076A67	5.6k
R359	0660076A42	510
R360 - R381	-----	Not Used
R382	0660076A73	10k
CIRCUIT MODULES: (See Note 1)		
U351	5105099Z32	455kHz I-F AMP/Demodulator
CRYSTALS: (See Note 2)		
Y351	KXN6300AA	First Oscillator
Y352	4805713B05	Second Oscillator (Low Side)
or	4805713B06	type NXN8007A (17.445 MHz)
		Second Oscillator (High Side)
		type NXN8008A (18.355 MHz)
NONREFERENCED ITEMS		
	1404233K01	BOOT, Crystal
	1405160A02	INSULATOR, Filter (FL351)
	7505043K01	PAD, Insulator (Y352)
	7505393N06	PAD, Antenna
	8402849Z04	CIRCUIT BOARD, Receiver

NOTES:

- For optimum performance, order replacement transistors, diodes and circuit modules by Motorola part number only.
- When ordering crystal units, specify carrier frequency, crystal frequency, and Motorola part number.

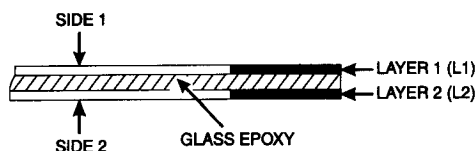
WARNING

Substitution of components may impair intrinsic safety.



This product contains static-sensitive devices. Use anti-static handling procedures to prevent electrostatic discharge.

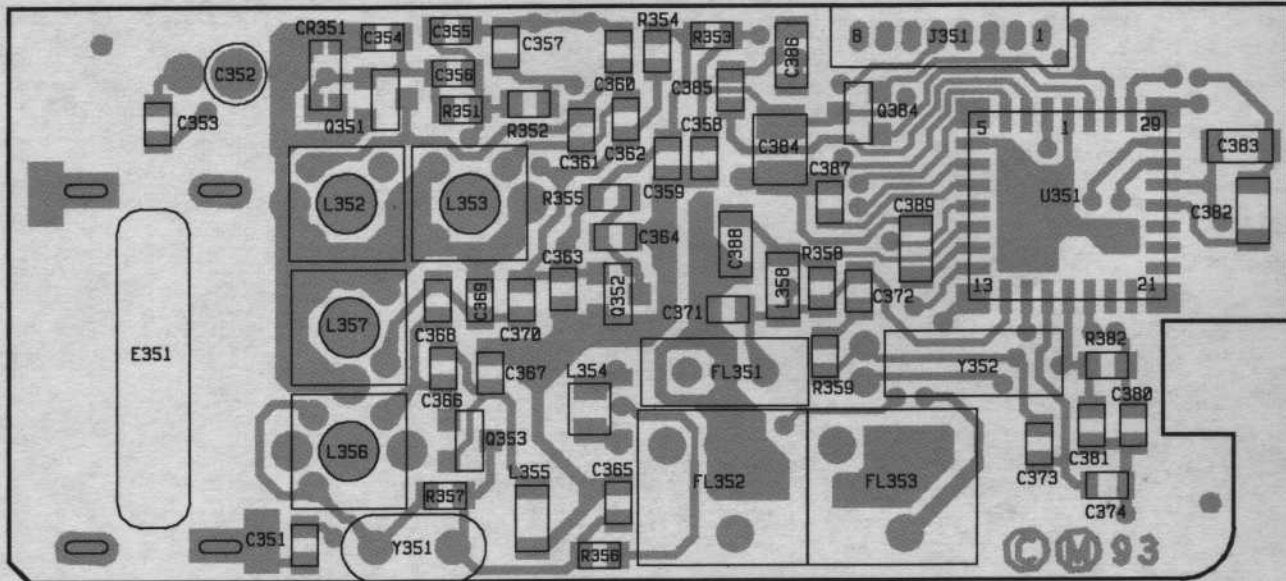
TWO-LAYER CIRCUIT BOARD DETAIL SHOWING COPPER AND GLASS-EPOXY LAYERS VIEWED FROM EDGE OF BOARD



AEPP-18805-D

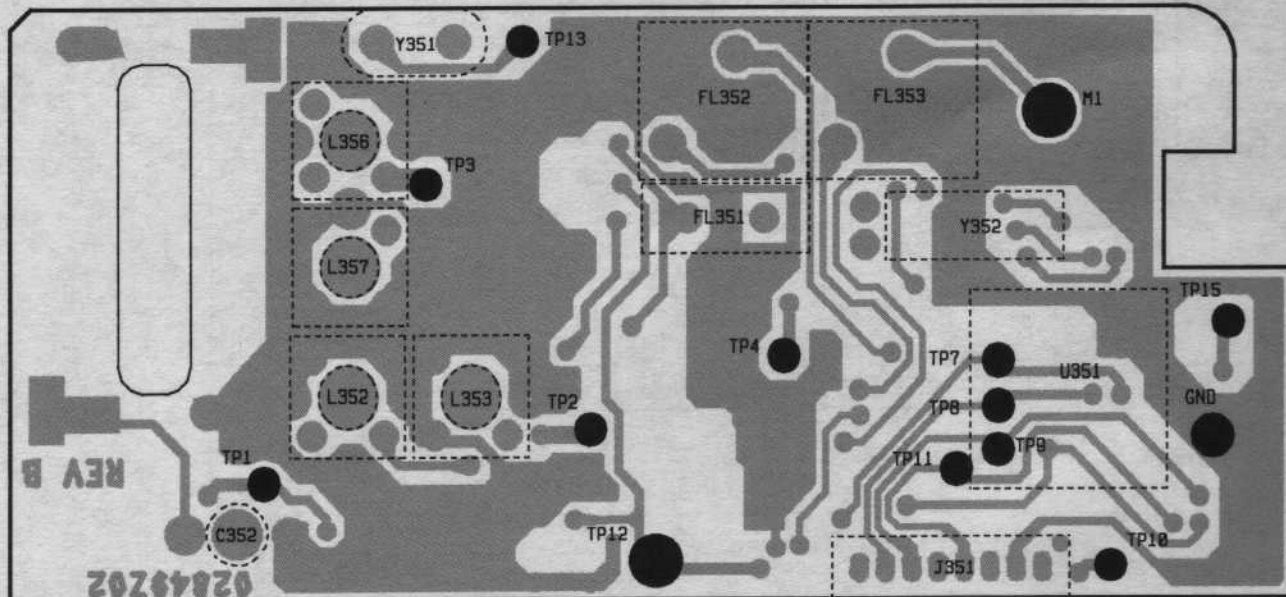
Two-Layer Circuit Board Construction

AARD4050B - AARD4056B, AARD/NRD4050D - AARD/NRD4056D
LAYER 1 AND SIDE 1 COMPONENTS (VIEWED FROM SIDE 1)



L1-BGPB-940556-0
 OL-BGPB-940555-0

AARD4050B - AARD4056B, AARD/NRD4050D - AARD/NRD4056D
LAYER 2 AND SIDE 2 WITH TEST POINT LOCATIONS (VIEWED FROM SIDE 2)



L2-BGPB-940557-0
 OL-BGPB-940558-0

RECEIVER
 AARD4050B,
 AARD4051B,
 AARD4052B,
 AARD4053B,
 AARD4054B,
 AARD4055B,
 AARD4056B,

REFERENCE	SYMBOL
C351	or
C352	or
C353	or
C354	or
C355	or
C356	or
C357, C358	or
C359	or
C360	or
C361	or
C362	or
C363	or
C364	or
C365	or
C366	or
C367	or
C368	or
C369	or
C370	or
C371	or
C372	or
C373	or
C374	or
C375 - C379	or
C380, C381	or
C382	or
C383	or
C384	or
C385 - C389	or
CR351	or
E351	or
FL351	or
FL352	or
FL353	or
J351	or
L351	or
L352, L353	or
L354	or
L355	or
L356	or

RECEIVER ELECTRICAL PARTS LIST

AARD4050B, AARD/NRD4050D	138-143	MHz (A)
AARD4051B, AARD/NRD4051D	143-148.6	MHz (B)
AARD4052B, AARD/NRD4052D	148.6-152	MHz (C)
AARD4053B, AARD/NRD4053D	152-159	MHz (D)
AARD4054B, AARD/NRD4054D	159-164	MHz (E)
AARD4055B, AARD/NRD4055D	164-169	MHz (F)
AARD4056B, AARD/NRD4056D	169-174	MHz (G)

REFERENCE SYMBOL	MOTOROLA PART NUMBER	DESCRIPTION
CAPACITORS: Fixed, pF $\pm 5\%$, 50V unless stated		
C351	2113740A30	11 (A)
or	2113740A29	10 (B)
or	2113740A28	9.1 ± 0.25 (C)
or	2113740A27	8.2 ± 0.25 (D, E)
or	2113740A24	6.8 ± 0.25 (F, G)
C352	2005228J02	2-10, Variable
C353	2113740A31	12 (A, B, C, D, E)
or	2113740A33	15 (F, G)
C354	2113740A29	10
C355	2105157A49	60 $\pm 2\%$ (A, B)
or	2104142F02	50 $\pm 2\%$ (C, D, E, F, G)
C356	2113740A17	3.9 ± 0.25 (A, B, C, D, E)
or	2113740A19	4.7 ± 0.25 (F)
or	2113740A20	5.1 ± 0.25 (G)
C357, C358	2113741A53	0.022 μ F
C359	2113741A45	0.01 μ F
C360	2113740A34	16 (A)
or	2113740A33	15 (B)
or	2113740A32	13 (C, D)
or	2113740A31	12 (E)
or	2113740A29	10 (F)
or	2113740A28	9.1 ± 0.25 (G)
C361	2105632D90	1.4 ± 0.25 (A)
or	2113740A03	1 ± 0.25 (B, C, D, E)
or	2113740A01	0.5 ± 0.1 (F, G)
C362	2113741A45	0.01 μ F
C363	2113740A25	7.5 ± 0.25 (A)
or	2113740A23	6.2 ± 0.25 (B, C)
or	2113740A20	5.1 ± 0.25 (D)
or	2113740A19	4.7 ± 0.25 (E)
or	2113740A17	3.9 ± 0.25 (F)
or	2113740A14	3 ± 0.25 (G)
C364	2113740A46	47
C365	2113741A21	0.001 μ F
C366	2160524A22	39
C367	2160524A15	10 ± 0.25
C368	2113740A03	1.0 ± 0.25 (A, B)
or	2113740A08	1.6 ± 0.25 pF (C, D, E, F, G)
C369	2160520W08	20 $\pm 2\%$ (A)
or	2113740A35	18 (B)
or	2105632D59	16.5 $\pm 2\%$ 25V (C)
or	2113740A33	15 (D)
or	2113740A32	13 (E, F)
or	2113740A31	12 (G)
C370	2113740A11	2.2 ± 0.25 (A, B)
or	2113740A03	1.0 ± 0.25 (C, D, E, F, G)
C371	2113740A30	11
C372	2113740A01	0.5 ± 0.1
C373	2113740A53	82
C374	2113740A40	30
C375 - C379	-----	Not Used
C380, C381	2113741A45	0.01 μ F
C382	2113741B51	0.018 μ F
C383	2113741B41	0.0088 μ F
C384	2111049A60	10 μ F $\pm 20\%$; 4V
C385 - C389	2113743A19	0.1 μ F $\pm 10\%$
DIODES: (See Note 1)		
CR351	4805494Q04	Silicon
ANTENNAS:		
E351	0102713J19	Antenna Assembly (A)
or	0105982D43	Antenna Assembly (B)
or	0105982D44	Antenna Assembly (C)
or	0102713J20	Antenna Assembly (D, E)
or	0105982D46	Antenna Assembly (G, F)
FILTERS:		
FL351	4805620J20	17.9 MHz
FL352	4805368G04	455 kHz, Ceramic
FL353	4805368G03	455 kHz, Ceramic
CONNECTORS:		
J351	0902317J01	8-Pin Connector (fixed)
COILS, RF: unless stated		
L351	-----	Ferrite Core, Antenna (See Note 3)
L352, L353	2405063H22	3 turns
L354	2405063H21	3.3 μ H
L355	2462575A07	10 μ H
L356	2405063H07	10 turns (A, B)

or	2405063H17	15 turns (C)
or	2405063H15	14 turns (D, E)
or	2405063H13	13 turns (F)
or	2405063H11	12 turns (G)
L357	2405063H22	3 turns
L358	2462575A05	4.7 μ H
TRANSISTORS: (See Note 1)		
Q351	4813827A03	NPN
Q352, Q353	4805128M42	NPN
Q354 - Q383	-----	Not Used
Q384	4805128N33	PNP
RESISTORS: Fixed, Ω 5%, 1/8W unless stated		
R351	0660076A77	15k
R352	0660076A72	9.1k
R353	0660076A45	680
R354	0660076A80	20k
R355	0660076A61	3.3k
R356	0660076A41	470
R357	0660776A47	820
R358	0660076A67	5.6k
R359	0660076A42	510
R360 - R381	-----	Not Used
R382	0660076A73	10k
CIRCUIT MODULES: (See Note 1)		
U351	5105099Z32	455kHz I-F AMP/Demodulator
CRYSTALS: (See Note 2)		
Y351	KXN6300AA	First Oscillator
Y352	4805713B05	Second Oscillator (Low Side)
or	4805713B06	Second Oscillator (High Side)
		type NXN8008A (18.355 MHz)
NONREFERENCED ITEMS		
	0705196A11	BOOT (FL351)
	1405160A02	INSULATOR, Crystal (Y351)
	1405160A02	INSULATOR, Filter (FL351)
	7505043K01	PAD, Insulator (Y352)
	7505393N06	PAD, Antenna
	8402849Z03	CIRCUIT BOARD, Receiver

NOTES:

- For optimum performance, order replacement transistors, diodes and circuit modules by Motorola part number only.
- When ordering crystal units, specify carrier frequency, crystal frequency, and Motorola part number.
- Order as part of E351 Antenna Assembly.

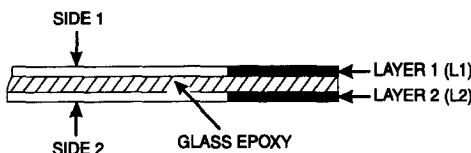
WARNING

Substitution of components may impair intrinsic safety.



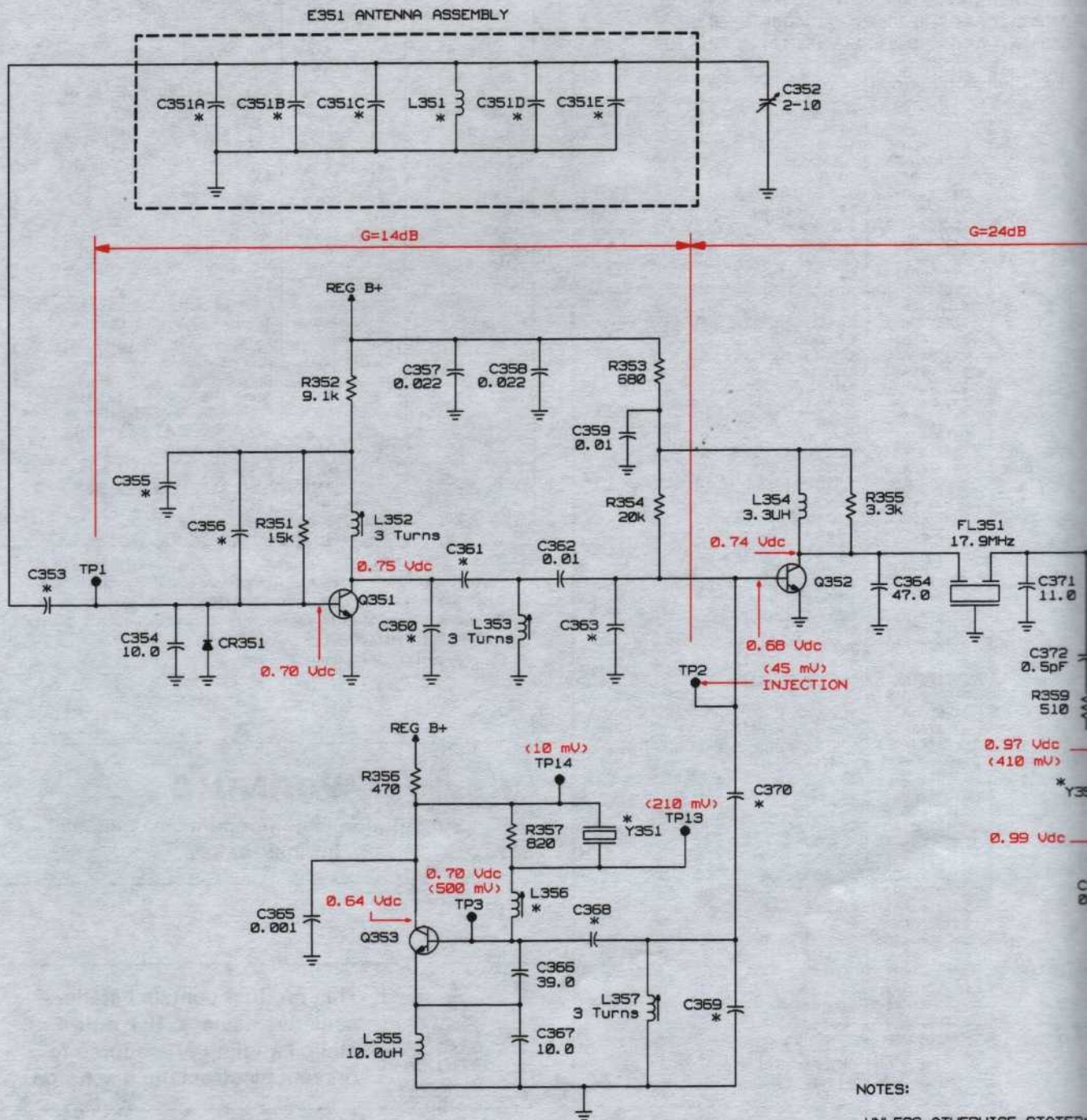
This product contains static-sensitive devices. Use anti-static handling procedures to prevent electrostatic discharge.

TWO-LAYER CIRCUIT BOARD DETAIL SHOWING COPPER AND GLASS-EPOXY LAYERS VIEWED FROM EDGE OF BOARD



AEFP-18805-D

Two-Layer Circuit Board Construction



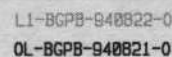
NOTES:

UNLESS OTHERWISE STATED:

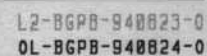
1. RESISTANCES ARE IN OHMS
LESS THAN 1 ARE IN MILLI OHMS
1 OR GREATER ARE IN OHMS

* REFER TO ELECTRICAL PARTS LIST FOR VALUES AND DESCRIPTIONS

RECEIVER
AARD4050A,
AARD4051A,
AARD4052A,
AARD4053A,
AARD4054A,
AARD4055A,
AARD4056A.



REFERENCE SYMBOL



C351	or
	or
	or
	or
C352	
C353	or
C354	
C355	
C356	or
	or
C357, C358	
C359	or
C360	or
	or
	or
C361	or
	or
C362	
C363	or
	or
	or
	or
	or
C364	
C365	
C366	
C367	
C368	
C369	or
	or
	or
	or
	or
C370	or
C371	
C372	
C373	
C374	
C375 - C379	
C380, C381	
C382	
C383	
C384	
C385 - C389	
CR351	
E351	or
	or
	or
	or
FL351	
FL352	
FL353	
J351	
L351	
L352, L353	
L354	
L355	
L356	

RECEIVER ELECTRICAL PARTS LIST

AARD4050A, AARD/NRD4050C	138-143	MHz (A)
AARD4051A, AARD/NRD4051C	143-148.6	MHz (B)
AARD4052A, AARD/NRD4052C	148.6-152	MHz (C)
AARD4053A, AARD/NRD4053C	152-159	MHz (D)
AARD4054A, AARD/NRD4054C	159-164	MHz (E)
AARD4055A, AARD/NRD4055C	164-169	MHz (F)
AARD4056A, AARD/NRD4056C	169-174	MHz (G)

REFERENCE SYMBOL	MOTOROLA PART NUMBER	DESCRIPTION
CAPACITORS: Fixed, pF ±5%, 50V unless stated		
C351	2113740A30	11 (A)
or	2113740A29	10 (B)
or	2113740A28	9.1 ±0.25 (C)
or	2113740A27	8.2 ±0.25 (D, E)
or	2113740A24	6.8 ±0.25 (F, G)
C352	2005228J02	2-10, Variable
C353	2113740A31	12 (A, B, C, D, E)
or	2113740A33	15 (F, G)
C354	2113740A29	10
C355	2105157A49	60 ±2% (A, B)
or	2104142F02	50 ±2% (C, D, E, F, G)
C356	2113740A17	3.9 ±0.25 (A, B, C, D, E)
or	2113740A19	4.7 ±0.25 (F)
or	2113740A20	5.1 ±0.25 (G)
C357, C358	2113741A53	0.022 µF
C359	2113741A45	0.01 µF
C360	2113740A34	16 (A)
or	2113740A33	15 (B)
or	2113740A32	13 (C, D)
or	2113740A31	12 (E)
or	2113740A29	10 (F)
or	2113740A28	9.1 ±0.25 (G)
C361	2105632D90	1.4 ±0.25 (A)
or	2113740A03	1 ±0.25 (B, C, D, E)
or	2113740A01	0.5 ±0.1 (F, G)
C362	2113741A45	0.01 µF
C363	2113740A25	7.5 ±0.25 (A)
or	2113740A23	6.2 ±0.25 (B, C)
or	2113740A20	5.1 ±0.25 (D)
or	2113740A19	4.7 ±0.25 (E)
or	2113740A17	3.9 ±0.25 (F)
or	2113740A14	3 ±0.25 (G)
C364	2113740A46	47
C365	2113741A21	0.001 µF
C366	2160524A22	39
C367	2160524A15	10 ±0.25
C368	2113740A03	1.0 ±0.25 (A, B)
or	2113740A08	1.6 ±0.25pF (C, D, E, F, G)
C369	2160520W08	20 ±2% (A)
or	2113740A35	18 (B)
or	2105632D59	16.5 ±2% 25V (C)
or	2113740A33	15 (D)
or	2113740A32	13 (E, F)
or	2113740A31	12 (G)
C370	2113740A11	2.2 ±0.25 (A, B)
or	2113740A03	1.0 ±0.25 (C, D, E, F, G)
C371	2113740A30	11
C372	2113740A01	0.5 ±0.1
C373	2113740A53	82
C374	2113740A40	30
C375 - C379	-----	Not Used
C380, C381	2113741A45	0.01 µF
C382	2113741B51	0.018 µF
C383	2113741B41	0.0068 µF
C384	2111049A60	10 µF ±20%; 4V
C385 - C389	2113741B69	0.1 µF 10%
DIODES: (See Note 1)		
CR351	4805494Q04	Silicon
ANTENNAS:		
E351	0102713J19	Antenna Assembly (A)
or	0105982D43	Antenna Assembly (B)
or	0105982D44	Antenna Assembly (C)
or	0102713J20	Antenna Assembly (D, E)
or	0105982D46	Antenna Assembly (G, F)
FILTERS:		
FL351	4805620J20	17.9 MHz
FL352	4805368G04	455 kHz, Ceramic
FL353	4805368G03	455 kHz, Ceramic
CONNECTORS:		
J351	0902317J01	8- Pin Connector (fixed)
COILS, RF: unless stated		
L351	-----	Ferrite Core, Antenna (See Note 3)
L352, L353	2405063H22	3 turns
L354	2405063H21	17 turns
L355	2462575A07	10 µH
L356	2405063H07	10 turns (A, B)

or	2405063H17	15 turns (C)
or	2405063H15	14 turns (D, E)
or	2405063H13	13 turns (F)
or	2405063H11	12 turns (G)
L357	2405063H22	3 turns
L358	2462575A05	4.7 µH
TRANSISTORS: (See Note 1)		
Q351	4813827A03	NPN
Q352, Q353	4805128M42	NPN
Q354 - Q383	-----	Not Used
Q384	4805128N33	PNP
RESISTORS: Fixed, Ω 5%, 1/8W unless stated		
R351	0660076A77	15k
R352	0660076A72	9.1k
R353	0660076A45	680
R354	0660076A80	20k
R355	0660076A61	3.3k
R356	0660076A41	470
R357	0660776A47	820
R358	0660076A67	5.6k
R359	0660076A42	510
R360 - R381	-----	Not Used
R382	0660076A73	10k
CIRCUIT MODULES: (See Note 1)		
U351	5105099Z32	455kHz I-F AMP/Demodulator
CRYSTALS: (See Note 2)		
Y351	KXN6300AA	First Oscillator
Y352	4805713B05	Second Oscillator (Low Side)
or	4805713B06	type NXN8007A (17.445 MHz)
		Second Oscillator (High Side)
		type NXN8008A (18.355 MHz)
NONREFERENCED ITEMS		
	1404233K01	BOOT, Crystal
	1405160A02	INSULATOR, Filter (FL351)
	7505043K01	PAD, Insulator (Y352)
	7505393N06	PAD, Antenna
	8402849X02	CIRCUIT BOARD, Receiver

NOTES:

- For optimum performance, order replacement transistors, diodes and circuit modules by Motorola part number only.
- When ordering crystal units, specify carrier frequency, crystal frequency, and Motorola part number.
- Order as part of E351 Antenna Assembly.

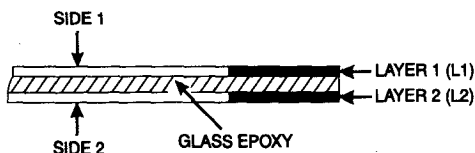
WARNING

Substitution of components may impair intrinsic safety.



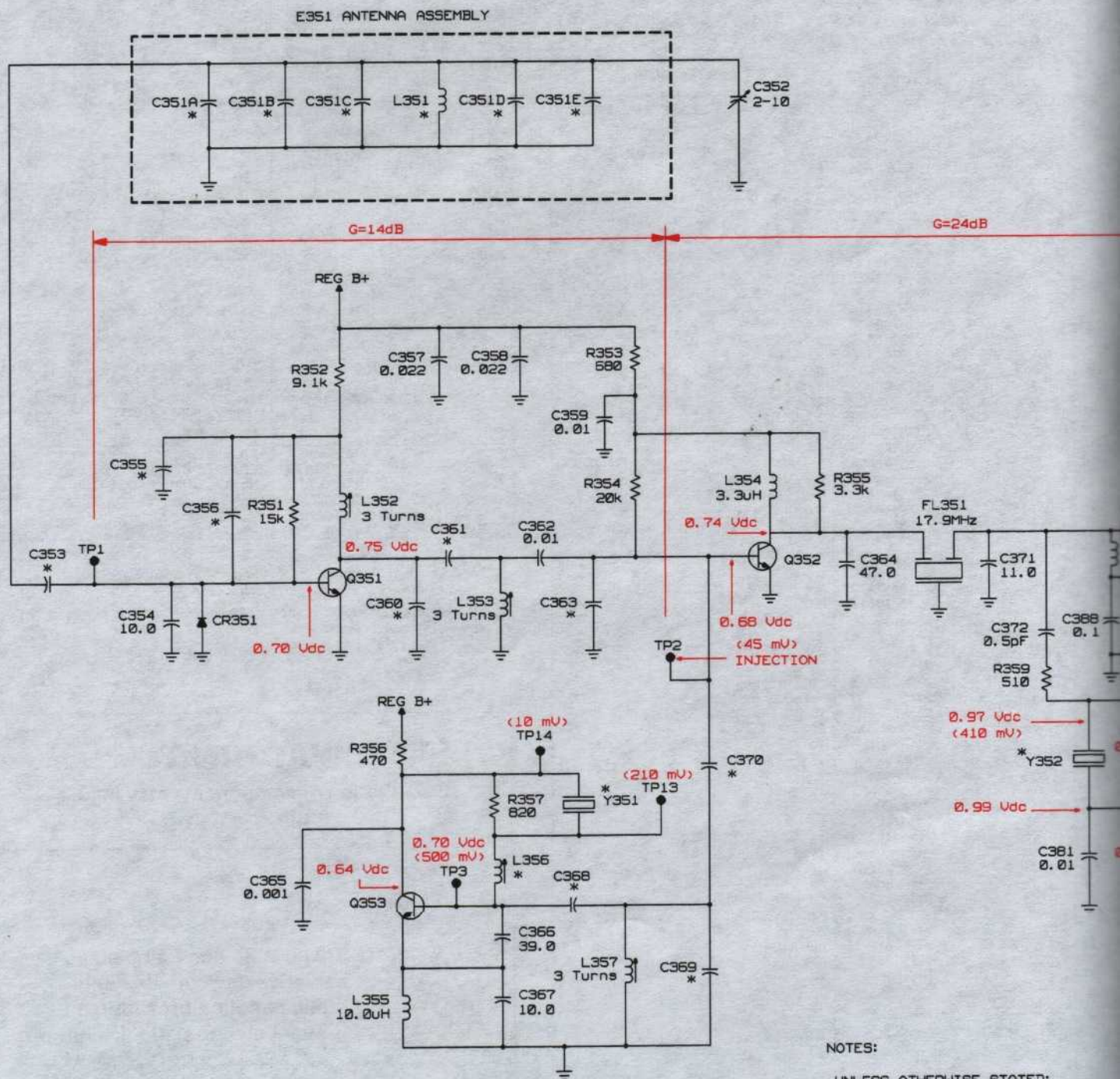
This product contains static-sensitive devices. Use anti-static handling procedures to prevent electrostatic discharge.

TWO-LAYER CIRCUIT BOARD DETAIL SHOWING COPPER AND GLASS-EPOXY LAYERS VIEWED FROM EDGE OF BOARD



AEFF-18805-D

Two-Layer Circuit Board Construction

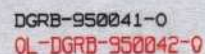


NOTES:

UNLESS OTHERWISE STATED:

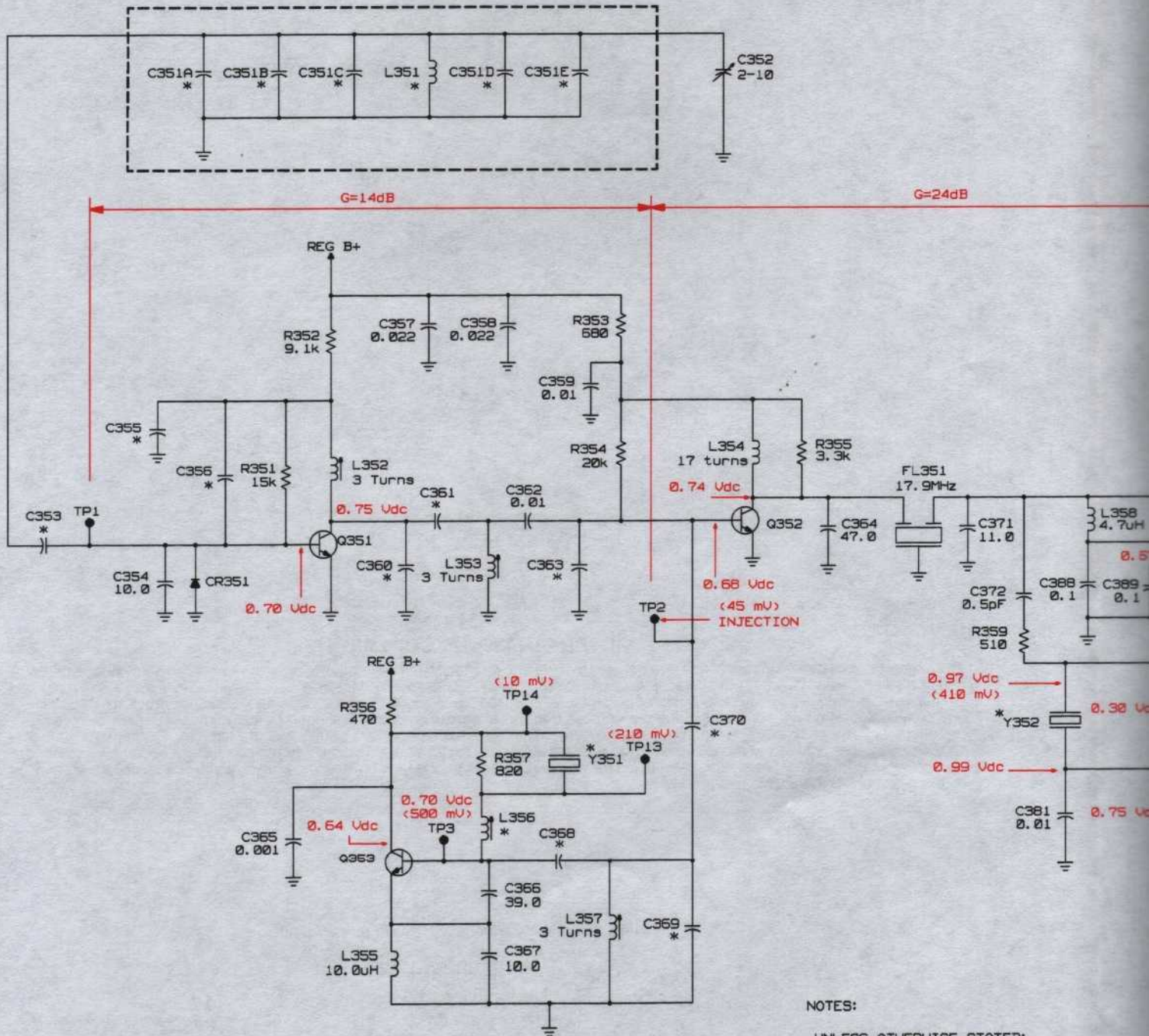
1. RESISTANCES ARE IN OHMS (k=10³)
LESS THAN 1 ARE IN MICROFARAD
1 OR GREATER ARE IN PICOFARAD

* REFER TO ELECTRICAL PARTS LIST
VALUES AND DESCRIPTIONS.



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E351 ANTENNA ASSEMBLY

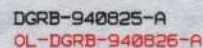


NOTES:

UNLESS OTHERWISE STATED:

1. RESISTANCES ARE IN OHMS ($k=1000$). LESS THAN 1 ARE IN MICROFARADS (μF) 1 OR GREATER ARE IN PICOFARADS (pF)

* REFER TO ELECTRICAL PARTS LIST FOR VALUES AND DESCRIPTIONS.



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REPLACEMENT PARTS

When ordering replacement parts or equipment, include the Motorola part number and description used in the service manual or supplement.

When ordering crystals or channel elements, specify the Motorola part number, description, crystal frequency, and operating frequency desired.

When the Motorola part number of a component is not known, use the product model number or other related major assembly along, with the description of the related major assembly and of the component in question.

PAGING PRODUCTS GROUP

U.S.A. (Paging Accessories)

Phone: 1-800-892-3068
FAX: 407-547-1724

International (Paging Accessories, Replacement Parts, and Manuals)

FAX: 55-11-828-0157 (Pan American)
FAX: 65-354-2232 (Asia Pacific)
FAX: 44-256-81-9338 (Europe/Africa)

AFTERMARKET PRODUCTS DIVISION (APD)

U.S.A. (Test Equipment, Replacement Parts, and Manuals)

Phone: 1-800-422-4210 (Customer Service)
FAX: 708-538-8198

International (Test Equipment)

TELEX: 403305
FAX: 708-576-3023

PAGER SERVICE

SERVICE MAINTENANCE CONTRACTS

U.S.A.

Phone: 407-735-8879
FAX: 407-735-8885

International

FAX: 407-739-3180 (Pan American)
FAX: 65-354-2232 (Asia Pacific)
FAX: 44-256-81-9338 (Europe/Africa/Middle East)
FAX: 86-1-461-0272 (China)

CUSTOMER AND PRODUCT SERVICES

U.S.A.

Phone: 407-739-2213

APD Parts Identification Help

Phone: 708-538-0021 (U.S.A.)
Phone: 708-538-8023 (International)

International

FAX: 407-739-3072 (Pan American)
FAX: 65-482-3879 (Asia Pacific)
FAX: 407-364-3072 (Europe/Africa/Middle East)

U.S.A. PAGER SERVICE CENTERS

Motorola
Midwest Pager Service Center*
1314 North Plum Grove Road
Schaumburg, IL 60173-4546
Phone: 708-576-5763
FAX: 708-538-2763

Motorola
Mid Atlantic Pager Service Center
5370 Truman Drive, Suite C
Decatur, GA 30035
Phone: 404-981-5070
FAX: 404-981-5211

Motorola
Northeast Pager Service Center
20C Commerce Way
Totowa, NJ 07512
Phone: 201-785-0105
FAX: 201-812-8175

Motorola
South Central Pager Service Center
1701 Valley View Lane, Suite A
Farmers Branch, TX 75234
Phone: 214-241-1891
FAX: 214-243-6781

Motorola
Southeast Pager Service Center*
3020 High Ridge Road, Suite 600
Boynton Beach, FL 33426
Phone: 407-533-0037
FAX: 407-533-9711

Motorola
West Coast Pager Service Center
2333 East Utah Avenue
El Segundo, CA 90245-0930
Phone: 310-536-0081
FAX: 310-536-9897

Motorola
Pager Service Center
Road 686, KM 17
Cabo Caribe Industrial Park
Vega Baja, Puerto Rico 00694
Phone: 809-858-8903
FAX: 809-858-8904

INTERNATIONAL PAGER SERVICE CENTERS

Motorola
European Pager Service Center*
Unit 1, The Ringway Centre, Edison Road
Houndmills, Basingstoke RG21 2YP
England, United Kingdom
Phone: 44-256-84-2220
FAX: 44-256-81-9338

Motorola
Iberia Pager Service Center
San Severo S/N, Barajas Park
28042 **Madrid, Spain**
Phone: 34-1-329-0461
FAX: 34-1-329-1933

Motorola
Korea Pager Service Center
Samtan Bldg, 2nd Floor 947-7 Daechi-Dong
Kangnan-Ku, Seoul, South Korea, 135-280
Phone: 82-2-565-5316
FAX: 82-2-561-1633

Motorola
Asia Pacific Pager Service Center*
49 Jalan Pemimpin #02-09
Republic of Singapore 2057
Phone: 65-353-8030
FAX: 65-353-8026

Motorola Do Brazil
Pager Service Center
Rua Bandeira Paulista, 580
Itaim Bibi
São Paulo, SP, Brazil 04532-001
Phone: 5511-838-5000
FAX: 5511-828-0157

Motorola
Malaysia Pager Service Center
2nd Floor, Wisma Damansara
Jalan Semantan 50490
Kuala Lumpur, Malaysia
Phone: 603-253-1818
FAX: 603-253-8892

Motorola
Beijing Pager Service Center*
29, Don Zhi Men Wai Avenue
Beijing, Peoples Republic of China 100027
Phone: 86-1-461-0278 or 461-0268
FAX: 86-1-461-0272

Motorola
Taiwan Pager Service Center
2F-1, 35 Section 1, Cheng-Teh Road
Taipei, China
Phone: 886-2-555-0589
FAX: 886-2-555-1039

Motorola Canada Limited
Canada Pager Service Center
2 East Beaver Creek Road, Unit 4
Richmond Hill, Ontario, Canada LB42N3
Phone: 905-709-2337
FAX: 905-709-7240

* These service centers are authorized and equipped to handle new product LCD module repairs.

For other international locations, please inquire at the most convenient FAX number above, or contact your local Motorola sales representative.



PUBLICATION REVISION

PUBLICATION NUMBER: 6881103B02-C

PMR NUMBER: 503B02-C1

TITLE: Receiver Service Supplement for AARD4050G-56G

Information in the publication listed above has changed since the manual was printed. Use this document to update your manual.

Number of Instruction Pages: 1

Number of Replacement Pages: 0

Revision Summary

Revision Level or PMR Number	Date	Description
6881103B02-C	July 1995	Fourth issue of Service Manual.
503B02-C1	October 13, 1995	PMR with parts list changes

PMR Number: 503B02-C1

Location	Update Instructions	Purpose
Receiver electrical parts list for AARD4050G-56G	<p>Change part number of C352 from 2005228J02 to 2005228J02, 2-10 pF Variable (A, B, C, E, F, G) or 2005228J10 2-10 pF Variable (D).</p> <p>Change part number of C355 from 2105157A49 60 pF $\pm 2\%$ to 2104142F03 60 pF $\pm 2\%$.</p> <p>Change part number of L352, L353 from 2405063H22 3 turns to 2405063H62 3 turns.</p> <p>Change part number of L356 from 2405063H07 10 turns (A, B) or 2405063H17 15 turns (C) or 2405063H15 14 turns (D, E) or 2405063H13 13 turns (F) or 2405063H11 12 turns (G) to 2405063H47 10 turns (A, B) or 2405063H57 15 turns (C) or 2405063H55 14 turns (D, E) or 2405063H53 13 turns (F) or 2405063H51 12 turns (G).</p> <p>Change part number of L357 from 2405063H22 3 turns to 2405063H62. Change part number of NONREFERENCED ITEM, INSULATOR, Filter (FL351) from 1405160A02 to 1405415K09.</p>	Part number changes