

## PARTS LIST HX-50A

SCHEMATIC  
DESIGNATIONHAMMARLUND  
PART NO.

DESCRIPTION

## CAPACITORS

C101, C130	1509-02-01023	Disc Ceramic, 100 PF $\pm 10\%$ , 1000 V
C102	1515-02-05001	Electrolytic 8 MF, 350V
C103, C104, C115, C116, C129, C131, C132, C142, C144, C159, C178, C179, C180, C181, C204, C210, C214	1509-01-01024	Disc Ceramic .005 MF, $+80-20\%$ , 500V
C105, C133, C170, C188, C212	1519-01-00015	Dur-Mica, DM-15 10PF, $\pm .5$ PF, 500V
C109, C110, C111, C112, C113, C114, C148, C163, C164, C165, C166, C167, C168, C169, C172, C173, C192, C203, C206, C215, C238	1509-01-01029	Disc Ceramic, .01 MF, $+80-20\%$ , 500V
C117, C126	1519-01-00059	Dur-Mica, DM-15 20 PF, $\pm 5\%$ , 500V
C118, C119	1519-02-00065	Dur-Mica, DM-15 56 PF, $\pm 2\%$ , 500V
C120, C121	1519-02-00061	Dur-Mica, DM-15 120 PF, $\pm 2\%$ , 500V
C122, C123	1519-02-03015	Dur-Mica, DM-19 400 PF, $\pm 2\%$ , 500V
C124, C125	1519-02-03014	Dur-Mica, DM-19 420 PF, $\pm 2\%$ , 500V
C127, C128	1509-01-01019	Disc Ceramic, .001 MFD, GMV, 500V
C134, C213, C225	1519-02-00057	Dur-Mica, DM-15 100 PF, $\pm 2\%$ , 500V
C135	1519-02-00054	Dur-Mica, DM-15 240 PF, $\pm 1\%$ , 500V
C136	9420-16-70002	Variable Oscillator Tuning Assembly
C137, C140, C143	1519-02-03013	Dur-Mica, DM-19 500 PF, $\pm 1\%$ , 500V
C138	9434-60-20048	Variable 1.9-15.8 PF (Osc. Trim.)
C139, C221	1509-02-02003	Ceramic Dielectric Temp. Comp. 6 PF, $\pm .25$ PF N1400
C141	1519-01-00010	Dur-Mica, DM-15 20 PF, $\pm .5$ PF, 500V
C145	1528-02-02002	Mylar, .1 MF, $\pm 10\%$ , 200V
C146	1509-01-01016	Disc Ceramic, .02 MF, $+80-20\%$ , 500V
C147, C235, C239	1528-02-02001	Mylar, .22 MF, $\pm 10\%$ , 400V
C150, C220	1519-01-00038	Dur-Mica, DM-15, 6 PF, $\pm .5$ PF, 500V
C155, C156, C157, C158	1521-01-00003	Mica Comp'r'n 1.5-20 PF
C160, C161, C185, C186, C187	1509-01-01015	Disc Ceramic, .01 MF, GMV, 1400V
C162	1517-02-00002 *	Electrolytic, 40-80-40
C162A	Included in C162*	40 MF-450V
C162C	Included in C162*	40 MF-350V
C171	1519-02-00025	Dur-Mica, DM-15, 4 PF, $\pm .5$ PF, 500V
C174, C175	1515-01-00003 *	Electrolytic, 90 MFD, 500V
C176, C177, C222	1515-02-05002 *	Electrolytic, 20 MF, 250V
C184, C211	1519-02-00062	Dur-Mica, DM-15, 320 PF, $\pm 2\%$ , 500V

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C189	9434-45-40001	Variable 2.3 - 15 PF
C193	1509-01-01006	Disc Ceramic, 500 PF
C199	1509-02-01027	Disc Ceramic, .005 MF, $\pm 20\%$ , 1000V
C200, C202	1509-01-01028	Disc Ceramic, .005 MF, GMV, 3000V
C201	9404-11-20007	Variable (Plate Tuning)
C205	1515-02-06001*	Electrolytic, 5 MF, 6V
C207	1519-02-04001	Dur-Mica, VDM-20 100 PF, $\pm 5\%$ , 1000V
C208	1503-02-00001	Variable (RF Load)
C208A, C208B, C208C	Included in C208	40 - 1360 PF
C209	1519-02-04002	Dur-Mica, VDM-20, 750 PF, $\pm 5\%$ , 1000V
C219	1509-01-01005	Disc Ceramic, .04 MFD, $\pm 80-20\%$ , 600V
C224	1519-01-00024	Dur-Mica, DM-15, 2 PF, $\pm .5$ PF, 500V
C226	1523-02-02001	Metallized Paper, 2.0 MFD, 200V
C233	1519-01-00017	Dur-Mica, DM-15, 7 PF, $\pm .5$ PF, 500V
C234	1509-01-01025	Disc Ceramic, .002 MFD, GMV, 1000V
C236	1509-01-01031	Disc Ceramic, .0005 MFD, $\pm 20\%$ , 1000V
C237	1515-01-01007*	Electrolytic, 40 MFD, 350V
C241	1519-01-00006	Dur-Mica, DM-15, 10 MFD, $\pm 10\%$ , 500V
ZC101	1541-02-00001	Voltage, Variable Capacitor

## DIODES

CR101, CR102	4823-02-00002	Diode, Germanium (1N634)
CR104, CR105, CR109, CR110	4808-02-00001	Diode, Silicon
CR106	4805-02-00002	Diode, Silicon
CR107, CR108	4823-02-00003	Diode, Germanium (1N295)
CR111	4833-01-00004	Diode, Zener
CR112, CR113, CR114, CR115, CR116, CR117	4808-02-00001	Diode, CER73C

## COILS

L101	1803-02-00109	Coil, Inductance Filter Output
L102	1802-02-00050	VFO Coil Assembly
L103	1802-02-00051	Choke, RF 2.5 MH
L104	1805-02-00058	Coil, 2nd Mixer 6.5 MC Trap
L105	1806-02-00007	Choke, RF (OSC Plate 10M)
L106	1805-02-00006	Choke, RF 2.2 UH (OSC Plate 80M)
L107	1805-02-00065	Choke, RF 2.0 UH (OSC Plate 40M)
L108	1805-02-00007	Choke, RF 1.0 UH (OSC Plate 20M)
L109	1806-02-00032	Choke, RF .56 UH (OSC Plate 15M)
L110, L111	1806-02-00014	Inductor (OSC Plate 10M)

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L112	5626-02-00003	Choke, Filter
L113	1802-02-00051	Choke, RF 2.5 MH
L115	9004-03-00024	Parasitic Suppressor Assem. (Includes R181)
L116	1809-02-00009	Choke, (RF Plate)
L117	9004-03-00029	Coil, RF Tank Assem.
L119, L120	1805-02-00006	Choke, RF 2.2 UH
L121	1805-02-00059	Coil, Driver, 6.5 MC Trap
L122	1802-02-00051	Choke, RF 2.5 MH
L123	1803-01-00052	Choke, 430 UH

## RESISTORS

R101	4703-01-00357	Fixed, 120K, $\pm 10\%$ , 1/2W
R102, R109, R114, R121, R146, R147, R157	4703-01-00356	Fixed, 100K, $\pm 10\%$ , 1/2W
R103, R110, R123, R136, R131, R161, R187, R199	4703-01-00332	Fixed, 1K, $\pm 10\%$ , 1/2W
R104, R141	4703-01-00360	Fixed, 220K, $\pm 10\%$ , 1/2W
R105	4703-01-00345	Fixed, 12K, $\pm 10\%$ , 1/2W
R106	4735-02-01001	Variable, 1 Meg. (AF Level) 1/8W
R107	4703-01-00334	Fixed, 1.5K, $\pm 10\%$ , 1/2W
R112	4735-02-01000	Variable, 10K (Carrier Bal.) 1/2W
R113, R126, R134, R162, R163	4703-01-00352	Fixed, 47K, $\pm 10\%$ , 1/2W
R115	4735-02-01007	Variable, 3K, $\pm 30\%$ , (RF Drive)
R116	4703-01-00331	Fixed, 820 $\Omega$ , $\pm 10\%$ , 1/2W
R117, R120, R201	4703-01-00340	Fixed, 4.7K, $\pm 10\%$ , 1/2W
R124, R217	4704-01-00632	Fixed, 1K, $\pm 10\%$ , 1W
R125, R132, R191, R202	4703-01-00344	Fixed, 10K, $\pm 10\%$ , 1/2W
R127	4713-02-00500	Fixed, 15K, $\pm 5\%$ , 5W
R128	4704-01-00644	Fixed, 10K, $\pm 10\%$ , 1W
R130	4703-02-00464	Fixed, 5.1K, $\pm 5\%$ , 1/2W
R138	4735-02-01000	Variable, 10K (Osc. Adj.) 1/2W
R139	4735-02-01003	Variable, 1 Meg. (Vox. Sen.) 1/8W
R142	4705-01-00932	Fixed, 1K, $\pm 10\%$ , 2W
R143	4735-02-01005	Variable, 10K (Bias. Adj.) 1W
R144	4735-02-01015	Variable, 10K, 1W (Part of S106)
R145, R148, R173	4703-01-00368	Fixed, 1 Meg., $\pm 10\%$ , 1/2W
R149A	4735-02-18000	Variable, 5 Meg. (Vox Delay) 1/8W
R149B	Included in R149A	Variable, 10 Meg. (CW) 1/8W
R153	4735-02-01006	Variable, 1 Meg., $\pm 30\%$ (Relay Adj.), 1/4W
R155	4703-02-00523	Fixed, 1.5 Meg., $\pm 5\%$ , 1/2W

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## RESISTORS - CONT'D.

R158	4703-01-00339	Fixed, 3.9K, $\pm 10\%$ , 1/2W
R159	4735-02-01003	Variable, 1 Meg. (Anti Trip Sen.) 1/8W
R160	4703-01-00342	Fixed, 6.8K, $\pm 10\%$ , 1/2W
R164	4705-01-00913	Fixed, 27 $\Omega$ , $\pm 10\%$ , 2W
R165	4714-02-01007	Fixed, 220 $\Omega$ , $\pm 10\%$ , 10W
R166	4714-01-01001	Fixed, 3K, $\pm 10\%$ , 10W
R168	4705-01-00930	Fixed, 680 $\Omega$ , $\pm 10\%$ , 2W
R169	4704-01-00652	Fixed, 47K, $\pm 10\%$ , 1W
R170, R171	4727-02-00001	Fixed, 40K, $\pm 10\%$ , 5W
R172	4705-01-00942	Fixed, 6.8K, $\pm 10\%$ , 2W (10K-15K p#12)
R174	4705-01-00928	Fixed, 470 $\Omega$ , $\pm 10\%$ , 2W
R175	4705-01-00952	Fixed, 47K, $\pm 10\%$ , 2W
R176	4705-01-00944	Fixed, 10K, $\pm 10\%$ , 2W
R181	Included in L115	Fixed, 47 $\Omega$ , $\pm 10\%$ , 1W
R182	4703-01-00320	Fixed, 100 $\Omega$ , $\pm 10\%$ , 1/2W
R183	4705-02-00999	Fixed, 10 $\Omega$ , $\pm 5\%$ , 2W
R184	4704-02-00900	Fixed, 4.8K, $\pm 1\%$ , 1W
R185	4735-02-01004	Variable, 10K (Meter Sens.) 1/2W
R188	4704-01-00636	Fixed, 2.2K, $\pm 10\%$ , 1W
R189, R216, R221	4704-01-00642	Fixed, 6.8K, $\pm 10\%$ , 1W
R196, R209, R210, R211	4703-01-00364	Fixed, 470K, $\pm 10\%$ , 1/2W
R200	4703-01-00355	Fixed, 82K, $\pm 10\%$ , 1/2W
R205	4703-01-00347	Fixed, 18K, $\pm 10\%$ , 1/2W
R206	4703-01-00328	Fixed, 470 $\Omega$ , $\pm 10\%$ , 1/2W
R208	4703-01-00339	Fixed, 3.9K, $\pm 10\%$ , 1/2W
R212	4703-01-00312	Fixed, 22 $\Omega$ , $\pm 10\%$ , 1/2W
R213	4703-01-00331	Fixed, 820 $\Omega$ , $\pm 10\%$ , 1/2W
R214	4713-01-00005	Fixed, 47K, $\pm 10\%$ , 5W
R215	4703-01-00325	Fixed, 270 $\Omega$ , $\pm 10\%$ , 1/2W
R218	4714-02-01013	Fixed, 12K, $\pm 10\%$ , 10W
R219	4713-02-00004	Fixed, 7K, $\pm 10\%$ , 5W
R220	4705-01-00944	Fixed, 10K, $\pm 10\%$ , 2W
R222, R223, R224, R225, R226, R228	4703-01-00366	Fixed, 680K, $\pm 10\%$ , 1/2W
R227	4714-01-01000	Fixed, 1K, $\pm 10\%$ , 1W

## SWITCHES

S101	5107-02-00001	Switch, Function
S102A	5105-02-00002	Switch, Wafer (1st Mixer Plate)
S102B	5105-02-00002	Switch, Wafer (2nd Mixer Grid)
S102C	5105-02-00003	Switch, Wafer (2nd Mixer Plate)
S102D	5105-02-00003	Switch, Wafer (Driver Grid)
S102E	5105-02-00002	Switch, Wafer (Crystal Osc. Grid)

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## SWITCHES - CONT'D.

S102F	5105-02-00001	Switch, Wafer (Crystal Osc. Grid)
S102G	5105-02-00001	Switch, Wafer (Band Ind.)
S102H	5105-02-00003	Switch, Wafer (Driver Plate)
S102J	5105-02-00003	Switch, Wafer (Final Grid)
S102L	5105-02-00006	Switch, Wafer (Final Tank)
S102M	5105-02-00004	Switch, Wafer (RF Loading)
S103	5106-02-00008	Switch, VFO Crystal
S104	5107-02-00006	Switch, (Operation)
S104A	Included in S104	Switch, (Operation)
S104B	Included in S104	Switch, (SP-ST) (On-Off)
S105	5106-02-00001	Switch, (Meter)
S106	Included in R144	Switch, (Part of R144)

## TRANSFORMERS

T101	5620-02-00001	Transformer, Audio (Mod.)
T102	1814-02-00006	Transformer, Band Pass Input 3 MC
T103	1810-02-00005	Transformer, Band Pass Output 3 MC
T104	1812-02-00005	Coil, 1st Mixer 10M
T105	1812-02-00004	Coil, 1st Mixer 10M
T106	1812-02-00011	Coil, 1st Mixer 10M
T107	1812-02-00010	Coil, 1st Mixer 15M
T108	1812-02-00009	Coil, 1st Mixer 20M
T109	1812-02-00008	Coil, 1st Mixer 40M
T110	1812-02-00007	Coil, 1st Mixer 80M
T111	1812-02-00006	Coil, 2nd Mixer 10M
T112	1811-02-00009	Coil, 2nd Mixer 15M
T113	1811-02-00007	Coil, 2nd Mixer 20M
T114	1810-02-00009	Coil, 2nd Mixer 40M
T115	1810-02-00008	Coil, 2nd Mixer 80M
T116	5620-02-00002	Transformer, Audio (Ant. Trip)
T117	5603-02-00004	Transformer, Power
T118	1811-02-00005	Coil, Driver 10M
T119	1811-02-00006	Coil, Driver 15M
T120	1811-02-00008	Coil, Driver 20M
T121	1810-02-00007	Coil, Driver 40M
T122	1810-02-00006	Coil, Driver 80M

TB101	2887-02-02010	Terminal Board
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## TUBES

V101	5706-01-00001	Tube, Electron 6C10
V102	5720-02-00003	Tube, Electron 6EW6

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## TUBES CONT'D.

V103	5710-01-00004	Tube, Electron 6AW8A
V104	5712-02-00002	Tube, Electron 6BA7
V105	5720-02-00001	Tube, Electron 6AU6
V106	5708-01-00002	Tube, Electron 6BV8
V107	5705-01-00001	Tube, Electron 12AT7
V109	5745-01-00001	Tube, Electron OA2
V110	5720-01-00004	Tube, Electron 12BY7A
V111	5722-02-00002	Tube, Electron 6DQ5

## CRYSTALS

Y101	2304-02-00008	Crystal, 3038 KC, $\pm .005\%$
Y102	2304-02-00009	Crystal, 3035 KC, $\pm .005\%$
Y103	2305-02-00007	Crystal, 38.660 MC
Y104	2305-02-00006	Crystal, 38.110 MC
Y105	2305-02-00005	Crystal, 37.560 MC
Y106	2305-02-00004	Crystal, 30.535 MC
Y107	2305-02-00003	Crystal, 23.535 MC
Y108	2305-02-00002	Crystal, 16.535 MC
Y109	2305-02-00001	Crystal, 13.035 MC
ZF101	9004-03-00021	Crystal Filter Assembly

## MISCELLANEOUS PARTS

F101	5134-02-00003	Fuse, SLO-BLO 3AG 3 AMP (For 50-60 cycle 115V Operation)
F101	5134-02-00001	Fuse, SLO-BLO 1 1/2 AGC (For 50-60 cycle 230V Operation)
I101	3913-02-00001	Lamp, Neon 1/25W
I102	3913-02-00002	Lamp, Neon 1/25W
I103	3913-02-00003	Lamp, Neon 1/25W
I104	3913-02-00004	Lamp, Neon 1/25W
I105	3913-02-00005	Lamp, Neon 1/25W
I106	3913-02-00006	Lamp, Neon 1/25W
I107, I108	3901-01-00001	Lamp, Incandescent No. 47
J101	2105-01-00001	Connector, Male (Mike)
J102	2106-01-00002	Connector, Female, 1 Contact
J103	2109-01-00011	Jack, Phone
J104	2106-01-00002	Connector, Female 1 Contact
J105	2111-01-00001	Connector, Receptacle
J106 thru J110	2120-02-00001	Jack, Push Fit (Test Point "A thru E")
K101, K102	4523-02-00001	Relay (2P-DT)
K103	4515-02-00001	Relay (4P-DT)
M101	2902-02-00004	Meter

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## MISCELLANEOUS - CONT'D.

2430-01-00082	Knob, (3/4" Dia.)
2430-01-00083	Knob, (1 1/8" Dia.)
2430-02-00084	Knob, (1 1/4" Dia.)
2430-02-00085	Knob, (1 1/2" Dia.)
2430-01-00050	Knob, Bar
2406-02-00001	Pointer
2430-02-00001	Knob, (Red) 3/4" (Qty. 2)
2430-02-00070	Knob, Modified 1/2" (Stamped 1, 2, 3, 4, 5)
9004-03-00012	Door Assembly (Left Side)
9004-03-00014	Door Assembly (Right Side)
2838-54-10120	Sems. Fastener No. 10/32X5/8" Lg.
2898-63-11005	Metal Washer 13/64 I.D.
9004-03-00003	Dial Pointer Cord Assembly
2537-01-00004	Spring, Dial Pointer
9004-03-00004	Dial Drive Cord Assembly
9004-03-00005	Cable, Band Switch Drive Assembly
2537-02-00005	Spring, Dial Drive
2537-02-00003	Spring, Band Switch