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Craig L102 Service Manual

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SERVICE MANUAL



L102

DELUXE 40 CHANNEL MOBILE CB TRANSCEIVER



GENERAL

Channels:	26.965 to 27.405 MHz
Frequency Stability: Microphone:	<u>+</u> 0.001%
Power source:	13.8V DC + ground.
Meter:	0.5A Standby (no signal) Transmit: 1.5A Illuminated. Indicates relative power output, received signal strength and SWR.

TRANSMITTER

Rr power output:	4.0 Watts
Modulation Capability:	100%
Spurious Attenuation:	60dB Minimum
Output Impedance:	50 Ohms

RECEIVER

Sensitivity: Bandwidth: AGC:	+ 3 kHz @ -6dB
	less than 12dB from
Squelch:	10uV to 0.5 Volt. Adjustable. Threshold less than 0.5uV. Tight,
Power output:	more than 250uV. 4.0W at 10% THD
Image Rejection:	Better than 60dB
IF Rejection:	Better than 60dB
Adjacent Channel Rejection:	Better than 60dB
IF Frequency:	1st IF: 9.785 MHz
Noise Blanker:	2nd IF: 455 kHz RF parallel gate type

P.A. SYSTEM

Power output: 4.0 Watts.

WARNING

Replacement or substitution of IC's, crystals, transistors, regulator diodes, or any other part of a specialized nature with parts other than those recommended by Craig may cause the operator to be in violation of the Type Acceptance requirements of Part 2 of the Rules.

FCC Rules require that ALL transmitter section adjustments, other than those supplied by Craig as front-panel operating controls, be made by or under the immediate supervision of the holder of an FCC First or Second Class Radio-Telephone Operator's License.

A PRODUCT OF CRAIG CORPORATION

PARTS PRICE LIST

SUBJECT TO CHANGE WITHOUT NOTICE. USE ALL AVAILABLE NUMBERS AND COMPLETE DESCRIPTION WHEN ORDERING, INCLUDING MODEL NUMBER *** (THESE PRICES HAVE BEEN REVISED AS OF 04-01-1978) ***

REF.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE	REF.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE
PACK	AGING						
	L102001 L102002 L102003 L102004	Individual Carton Styrofoam (A) Styrofoam (B) Mtg Hardware Kit	2.90 .95 .95 .40		L101507 4101004 LA22 XFU002	Microphone Bkt, Mic Mtg Slide Mtg Bkt Fuse, 2A	17.00 .65 12.58 .35
CABIN	NET & CHASS	IS					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	L102010 L102026 LA22 NSP L102395 3137046 L102231 4103011 NSP L102050 L102051 NSP 4201033 L102396 L102397 NSP	Front Escutcheon Knob, Channel Selector Ass'y, Slide Mtg Bkt Panel, Antenna & Power Bkt, Power Con. PCB Plate Spring, Slide Mtg Bkt Rubber Collar, Power wire Knob, CALIBRATE & CAL/SWR Chassis Rear Panel Top Cabinet Bottom Cabinet Bkt, SWR PCB Mtg Lamp Holder Bkt (A), PCB Mtg SWR Housing Holder, 6P Power Socket Cover, 6P Power Socket Heat Sink Heat Sink Heat Sink Heat Sink Heat Sink PLL Chassis PLL Cover Support, PLL Chassis Bkt, Mic Jack Mtg Special Nut Push Button, Dimmer Knob, VOL, SQUELCH, ANL/NB/PA, DELTA TUNE, RF GAIN Rail, Slide Mtg Bkt Holder, Digital Display Sponge Cushion Cushion, Meter Cushion, CAL & CALIBRATE Knob Cushion, Channel Selector Rubber Washer Speaker Screen Rubber Cushion, Speaker	8.558* 7.3255* 8.558* 7.3255* 8.225* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.400* 8.40	41 42 101 102 103 104 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 130 130 130 130 130 130 130	L102434 L102435 4103030 4103032 4103033 L102530 4103034 4103035 4101020 L102604 4201033 L600807 4103042 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 4103041 41030570 L102600 L102600 L102603 2SD359 L102600 L102600 L102600 L102600 L102600 L102518	Cushion (A) Cushion (B) Speaker Rotary Sw, ANL/NB/PA Rotary Sw, CAL/SWR/S-RFO Switch, Dimmer 6P Connector Socket ANT. Connector Socket Microphone Connector Meter Lamp Holder Digital Readout Display Lamp No.15, Meter Lamp No.15, Meter Lamp No.161, Modulation Cont, CALIBRATION 10k (R905) Cont, DELTA TUNE 10k (R904) Cont, RF GAIN 10k (R903) Cont, SQUELCH 5k (R902) Cont, VOLUME 50k x2 (R901) 6P Feed Thru Cap, Mic Conn. Power Conn, PCB only Earphone Jack, PA/EXT.SP ANT. Connector Ass'y, Power Cord 1P Feed Thru Cap, SWR Transistor (Q201) Transistor (Q201) Transistor (Q318) Transistor (Q320) 7P Feed Thru Cap, PLL Ass'y, 7P Conn Ass'y, CB PCB w/Comp Ass'y, CB PCB w/Comp Ass'y, SWR PCB w/Comp	1.60 3.60 5.70 1.75 1.85 1.15 9.40 17.92 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 1
38	4103027	Speaker Screen	.25	Note	: NSP/ Non	-Serviceable Parts	L

SEMICONDUCTORS

REF. NO.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE	REF. NO.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE
Q111,112 309,321 322 Q101,102 106,107 108,109 110,304 305,306	2SA733	Transistor	.95	IC106 IC101 IC301 IC102 IC302 CR103,202 305,306 307,312	MC1496P MC78L05CP TA7205P SN5493N MC1496G	I.C I.C I.C I.C	5.65 3.60 5.25 6.00 5.85
307,308 314,315 316,324 104,105 Q202,312 323 Q310,311	2SC710 2SC945	Transistor	1.15	313,317 322,323 CR302,303 304,308 309,310 311,315 318,319	181588	Diode	.35
313 Q317 Q318 Q301 Q201,320 Q319 Q103,303 Q302 IC103 IC105 IC104	2SC923 2SC2086 2SC2166 JSP7001 2SD359 2SD471 2SK68A 2SK49 MC14568CP MC14011CP MC14526CP	"" "" "" "" "" "" "" "" "" "" "" "" ""	1.80 1.65 3.80 .90 1.70 1.10 4.75 1.50 10.25 5.00 5.65	320,321 501,502 CR301 CR101,102 Z101 Z201 Z301,302 CR314 CR201 CR316	1N60 TD81515 MV2105 EQB01095 RD51EB RD10E SIB0102 W06B U05B	Diode Diode Diode Zener Diode Zener Diode Zener Diode Diode Diode Diode Diode	.95 .45 3.20 1.50 .75 .75 .45

CHOKES, COILS, FILTERS, TRANSFORMERS & CRYSTALS

REF. NO.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE	REF. NO.	CRAIG KEY NO.	DESCRIPTION	LIST PRICE
T306 L317 L104,303 L105 L304,T301 T302,T307 L310,312 T303 L301 L302 T304 T305 L306,376 R318,408	L102641 L102670 3513077 L102671 4201058 4201069 L600644 L102672 L102642 L102643 L102643 L102655 L102591	Modulation Transformer Choke Coil Inductor,100uH Coil, 5.6uH IFT Coil, 10.7MHz RF Choke Coil IFT, 455kHz (Yellow) Antenna Coil RF Coil AM IFT (White) AM IFT (White) Buffer Coil Semi-Var Res, 2k Ohms Semi-Var Res, 20k Ohms	2.95 1.50 .55 .65 1.35 1.25 1.05 1.50 1.10 1.10 1.60	L306,307 308 L311 L313 L314,315 316 L102,103 L101 R155 X301 X302 X101 CF301 R154,313 R414 R501	L102674 L102676 L102677 L102679 L102680 L102722 L102723 L102724 L102681 T281027 L600593 L102592	TX Coil 27MHz Driver Coil Matching Coil Filter Coil PLL Coil, 36MHz VCO Coil Res. Block, 10kX8 Crystal, 10.24MHz Crystal, 9.785MHz Crystal, 11.8233MHz Ceramic Filter Semi-Var Res, 10k Ohms Semi-Var Res, 200 Ohms Semi-Var Res, 200 Ohms	1.50 1.30 1.30 1.50 1.50 1.50 6.15 6.15 6.15 6.15 6.15

CAPACITORS

CAPACITURS			
C309,377,395 C275,401 C372 C336,419 C316,366,371,378 C306,319,370,422 C305,308,339,346 368,381 C328,338,386,389 394 C335 C387 C308,340,369,392 393 C390 C358,361 C310,312,314,374 C103,104,105,107 110,121,122,123 126,130,131,137 140,142,143,146 302,303,304,307 311,313,315,317 318,322,354,365 376,379,380,382 385,388,396,398 402,416,421,424	Mica, 5pF/50V " 10pF/50V " 15pF/50V " 22pF/50V " 33pF/50V " 47pF/50V " 100pF/50V " 150pF/50V " 150pF/50V " 220pF/50V " 220pF/50V " 330pF/50V Ceramic, 0.001uF/50V	C102,115,120 C125,301 C136,114,119,412 C117 C116,128,129,132 134 C383 C133 C384 C357 C391 C341,345,399,410 406,201 C348,373,411,420 127 C360,400 C409,106,108,109 C141 C397 C331,203,332,347 363,417,423 C111,330 C414 C202,333,342,344 349,351,353,356 C113 C343	Ceramic, 22pF/50V
501,502 0321,324,425,327 407 0145 0101,118,124,138 0135,405 0403,404,334	Ceramic, 0.0huF/50V " 0.047uF/50V " 5pF/50V " 10pF/50V " 15pF/50V	C352 C320,323,326,329 350 C359,362 C355,418 C112 C144	" 0.022uF/50V " 0.047uF/50V 0.068uF/50V Tantalum, 6.8uF/6.3V " 0.22uF/35V " 1uF/35V

RESISTORS (ALL RESISTORS ARE CARBON, OHMS, $\frac{1}{2}$ W, $\frac{1}{2}$ 10%, 25¢ EACH OR NOTED)

R362,363	R119,125	R410 " 220 " ¾W
369 Carbon, 2.4k Ohm	134,137	R360 " 270 "
R332,361 " 2.7k "	380,383	R307,333
	392,153 " 33k "	398 " 330 "
R204,129	392,173	
130,382	K365 43K	R309,355 " 390 "
388,431	1351 JOK	n 4 30
343 3.35	R323,329	R302,303
R301,395 3.9K	331,413 OOK	347,330
R349,322	R117,139	335,406
372,377	320,334	394,324 " 470 "
379,402	308,336	R126 " 510 "
407.417	339,422 " 100k "	R359,433 " 560 "
421,430 " 4.7k "	R319,354 " 330k "	R132,389 " 820 "
R387 " 5.6k "	R305,310	R111,112
R115 " 6.8k "	311 " 1M "	128,135
R102,107	R138 " 2.2M "	142,146
108 118	N130 2.2M	346,384
122,131	R109,400 Carbon, 10 Ohm	393,327
140,144	R399 " 10 " ½W	403,412
147,148	R401 " 22 "	425,428
150,152	R318 " 33 "	203,204 " 1k "
	R397 " 47 "	R127,315
205,344	R419 " 68 "	217 200 " 7 51 "
325,391	R381.385	311,390 1.5K
427,434	411,420	R104,106
117	133,136 " 100 "	114,116
R371,375	R418 " 100 " ½W	145,149
396,409	R312,374 " 150 "	151,156
R331,353	R202 " 180 "	157,158
356,404		159,160
416,423 " 15k "	R304,386	161,321
R141,153	405,424	326,328
301,378	426,103	370,432 " 2.2k "
366 " 22k "	105,113	6 · CK
R358,373 " 27k "	120,124 " 220 "	

ALIGNMENT PROCEDURES

EQUIPMENT REQUIRED:

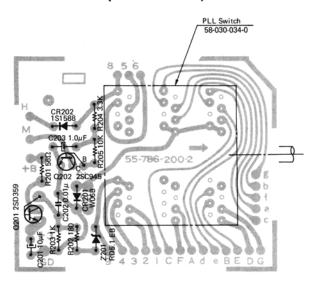
- 1- Regulated DC power supply. (13.8V, 2A)
- 1- Regulated Do Power Supply. (13.0., 22.)
 2- Frequency Counter.
 3- RF Output Meter. (50 Ohms terminated type)
 4- Signal Generator.
 5- Audio Level Meter.
 6- Dummy Load. (8 Ohms, 5W)

GENERAL ALIGNMENT CONDITIONS:

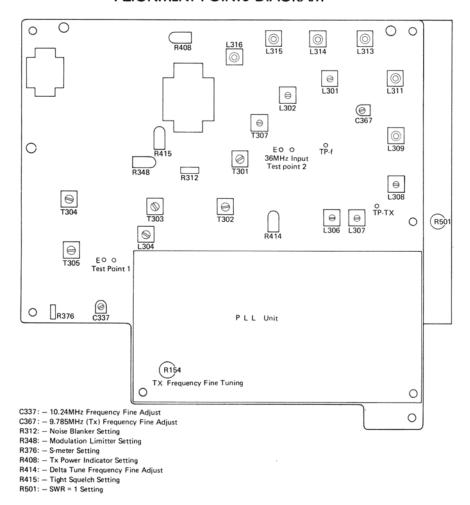
- 1- Warm up the unit and test equipment at least15 minutes before starting alignment.2- Coupling to Frequency Counter should be as
- loose as possible.
 3- Non-Metalic tools should be used for all adjustments.

	CONNE	CTIONS	CHANNEL		
CIRCUIT	INPUT	OUTPUT	SELECT.	ADJUST	ADJUST FOR
Receive Mode.	NO SIGNAL	Connect Frequency Counter to TP-1	Anv	C 337	10.24 MHz + 100 Hz
Transmit Mode.	NO MODULATION	Connect Frequency	Channel	R 154	36.97 MHz + 100 Hz
Receive Mode.	NO SIGNAL Set Delta Tune Cont. at Center position	Counter to TP-2	CH-19	R414	36.97 MHz <u>+</u> 200 Hz
TER					
Transmit	NO MODULATION	- Frequency Counter to TP-f. - RF Output meter to ANT. Connector.	CH-19	C367	9.785 MHz <u>+</u> 100 Hz
Mode.		RF Output Meter to ANT. Connector.		L306,L307,L308 L309,L311,L313 L314,L315,L316	Maximum on RF Output meter.
Repeat above	steps to obtain maximu	nm sensitivity.	1		
Receive Mode.	Connect Signal Gen. to Antenna connector. Set Signal Gen. at 27.185 MHz ± 1kHz. 30% modulation.	Connect Audio Level meter to EXT SP. jack thru Dummy load.	CH-19	L301,L302,L304 T301,T302,T303 T304,T305,T307	Maximum on Audio Level meter.
	Mode. Transmit Mode. Receive Mode. TER Transmit Mode. Repeat above	Receive Mode. Transmit Mode. Receive NO SIGNAL Transmit NO MODULATION Receive NO SIGNAL Set Delta Tune Cont. at Center position TER Transmit NO MODULATION Repeat above steps to obtain maximum Mode. Receive Connect Signal Gen. to Antenna connector. Set Signal Gen. at 27.185 MHz + 1kHz.	Receive Mode. Receive Mode. Transmit Mode. Receive NO SIGNAL Receive NO SIGNAL Set Delta Tune Cont. at Center position TER Transmit Mode. Transmit Mode. Transmit NO MODULATION Repeat above steps to obtain maximum sensitivity. Receive Connect Signal Gen. Mode. Receive Connect Signal Gen. Set Signal Gen. at 27.185 MHz ± 1kHz.	Receive Mode. Receive Mode. NO SIGNAL Transmit Mode. NO SIGNAL Receive Mode. NO SIGNAL Set Delta Tune Cont. at Center position TER Transmit Mode. NO MODULATION Frequency Counter to TP-2 CH-19 CH-19 TER Receive Mode. Transmit Mode. Receive Mode. Transmit Mode. Connect Frequency Counter to TP-2 CH-19 CH-19 CH-19 Receive Mode. Connect Signal Gen. to Antenna connector. Set Signal Gen. at 27.185 MHz ± 1kHz. Connect Audio Level meter to EXT SP. jack thru Dummy load. CH-19	Receive Mode. Receive Mode. NO SIGNAL Connect Frequency Counter to TP-1 Any Channel R 154 Connect Frequency Counter to TP-2 Connect Frequency Counter to TP-2 Receive NO SIGNAL Set Delta Tune Cont. at Center position TER Transmit Mode. NO MODULATION Frequency Counter to TP-2 CH-19 R414 C367 CH-19 R414 C367 RF Output meter to ANT. Connector. CH-19 Receive Connect Signal Gen. to Antenna connector. Set Signal Gen. at 27.185 MHz ± 1kHz.

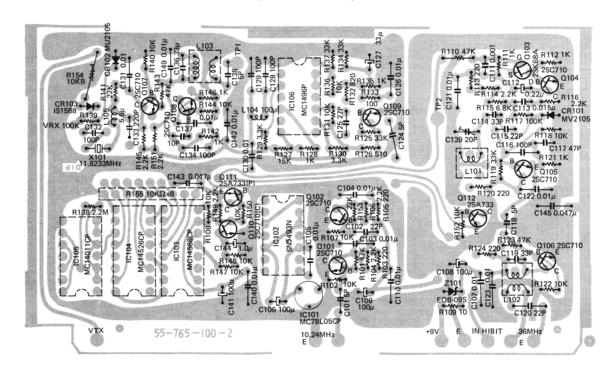
CHANNEL SELECTOR P.C.B. (Bottom View)



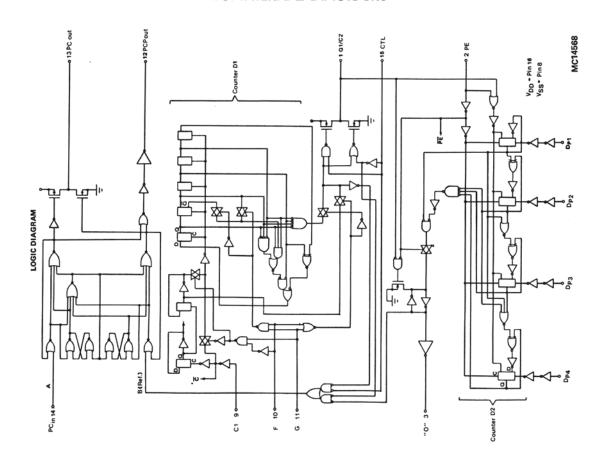
ALIGNMENT POINTS DIAGRAM

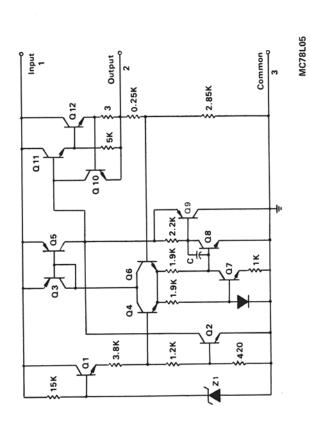


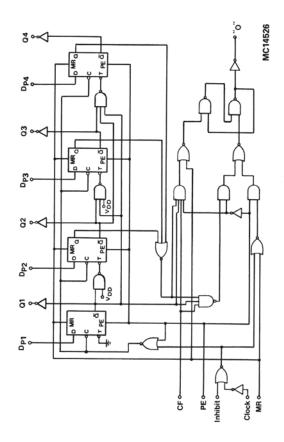
PHASE-LOCKED LOOP P.C.B. (Bottom View)

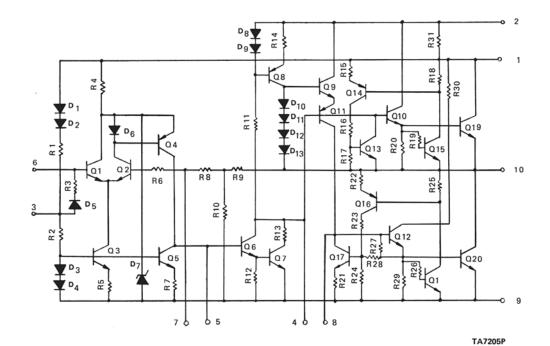


I.C. INTERNAL DIAGRAMS







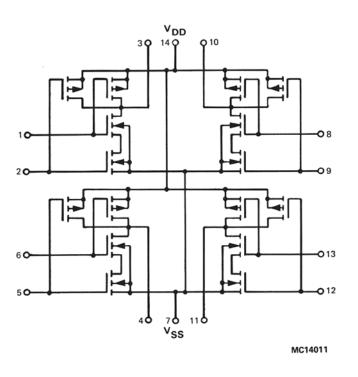


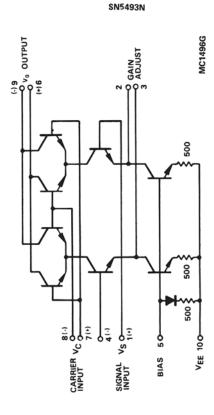
GND A OUTPUT B INPUT B OUTPUT C OUTPUT D OUTPUT

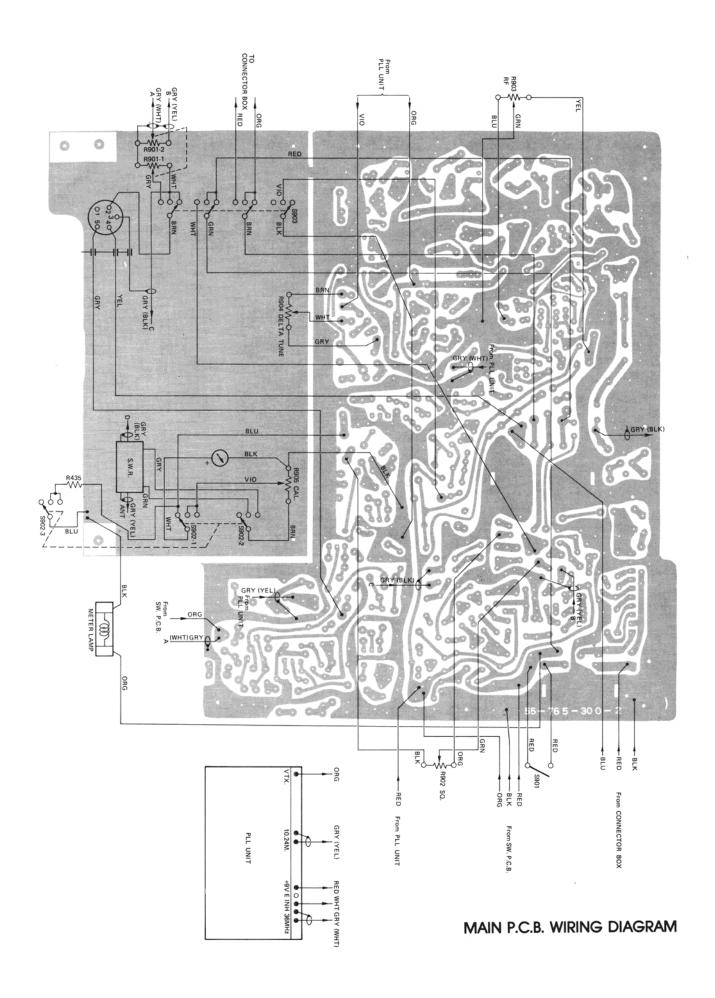
VCC

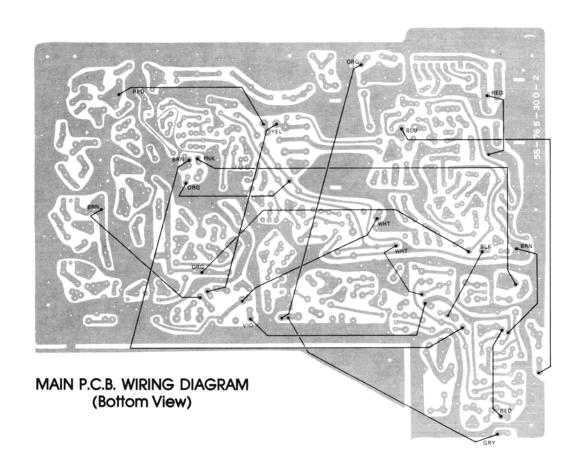
A INPUT

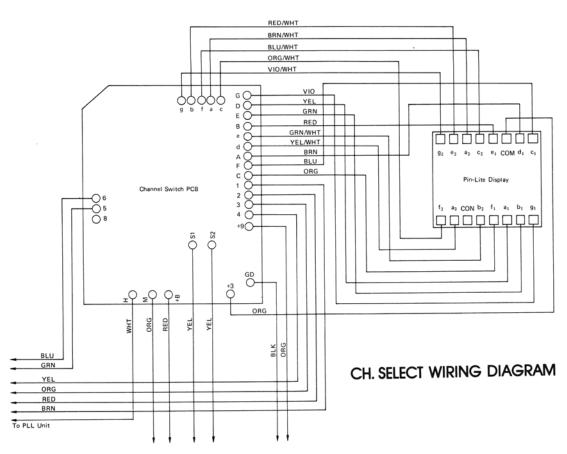
A I



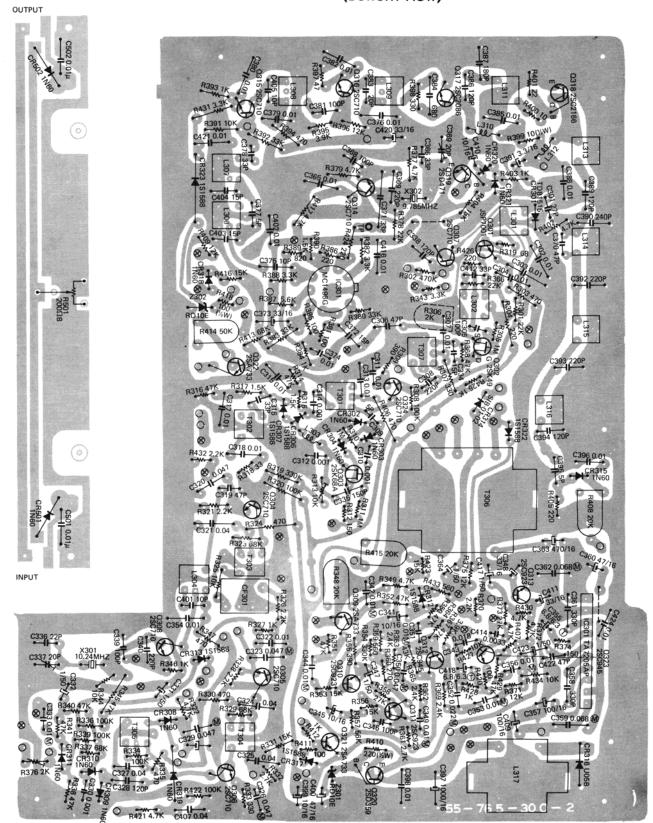








MAIN P.C.B. LAYOUT (Bottom View)



CRAIG MODEL L102 SCHEMATIC CIRCUIT DIAGRAM

CABINET & CHASSIS

