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Craig L105 Service Manual

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SERVICE MANUAL



L105

40-CHANNEL MOBILE CB TRANSCEIVER

WARNING

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.

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.



SPECIFICATIONS

4 W

RECEIVER

SENSITIVITY AM: Better than 0.4 uV for 10 dB (S+N)/NM: Better than 0.4 uV for 10 dB (\$\frac{4}{9}\)/N
7.0 KHz @ 6.0 dB
Change in audio output less than 10 dB
from 10 uV to 1.0 volts
Adjustable, threshold less than 0.5 uV
Tight, more than 250 uV BANDWIDTH AGC SQUELCH OUTPUT POWER 4 W at 10 % THD Better than 90 dB Better than 60 dB @ 10.695 MHz IMAGE REJECTION IF REJECTION ADJACENT CHANNEL REJECTION Better than 60 dB IF FREQUENCY AM: 10.695 MHz CLARIFIER RANGE AM: + 1,000 Hz NOISE BLANKER RF parallel gate type

P.A. SYSTEM

OUTPUT POWER

TRANSMITTER

RF POWER OUTPUT			AM: 4 W
MODULATION CAPABILITY			100 %
SPURIOUS ATTENUATION	60	dΒ	minimum
OUTPUT IMPEDANCE			50 Ohm

GENERAL

CHANNELS

FREQUENCY RANGE
FREQUENCY TOLERANCE
FREQUENCY STABILITY
MICROPHONE
POWER SOURCE
CURRENT DRAIN;
RECEIVE:

TRANSMIT:

40 AM
26,965 to 27,405
from -30 °C to + 50 °C
+ 0.001 %
Dynamic
13.8 Vdc, pos. or neg. ground
0.7 A @ maximum audio output,
0.3 A @ standby (no signal)
AM full mod 1.5 A

PARTS PRICE LIST

BUBJECT TO CHANGE WITHOUT NOTICE. USE ALL AVAILABLE NUMBERS AND COMPLETE DESCRIPTION WHEN ORDERING, INCLUDING MODEL NUMBER

REF. No.	CRAIG KEY No.		MFR's SUGG RET. PRICE	
PA	CKAG	ING		
	L105001 L105002 L105003 L103507 L150396 XFU002 L105100 L103212 L103204 4101033	Individual Carton Styrofoam, FRONT Styrofoam, REAR Microphone (Complete) Bracket, Mic Mounting Spare Fuse, 2A Mounting Bracket (Unit) Mounting Screw (Unit) Rubber Washer (Mtg Brkt) Mounting Hardware Kit D.C. Power Plug w/Cord	3.35 1.30 1.30 29.90 .75 1.00 1.50 .50 .25 3.00 3.50	
CA	BINET	& CHASSIS		
1 · 2A 2 3	NSP L105010 L105011 L105070	Chassis Assy, Front Escutcheon Front Escutcheon Window, Front Display	9.40 7.35 4.15	

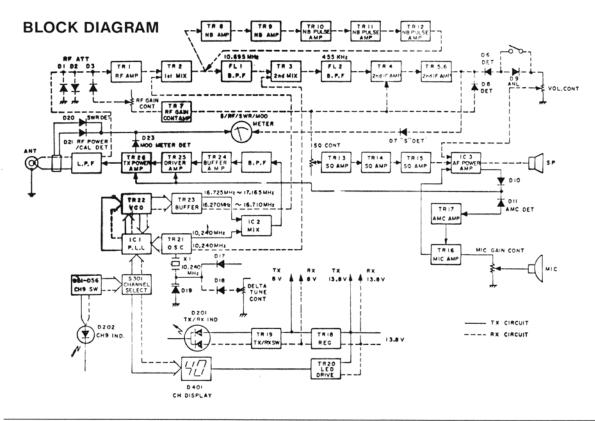
THESE PRICES HAVE BEEN REVISED AS OF 4/30/80				
REF. No.			R's SUGG T. PRICE	
CAB	INET & C	CHASSIS (continued)		
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	L103071 L103026 L103027 L105026 L105027 L105291 L105291 L105292 L105050 L1031100 L105100 L103212 L103231 NSP NSP L103213 L105212	Optical Filter (Ch. Display) Knob, CHANNEL SELECT Knob, TONE/CAL/METER SW/D. TUNE Knob, SQUEL/RF GAIN Knob, VOL/MIC GAIN Spring Plate, Ch. Sel. Knob Spring Plate, Squel/RF Knob Spring Plate, Vol/Mic Knob Cabinet Top Wool Tack Cabinet Bottom Mounting Bracket (Unit) Mounting Screw (Unit) Rubber Washer (Mtg Brkt) Model No./FCC/Serial No. Plate Rivet Plastic PH Screw M3x6 Plastic PH Screw M3x8	.55 1.40 .90 .80 .25 .25 .25 .25 .25 .25 .25 .25 .25	

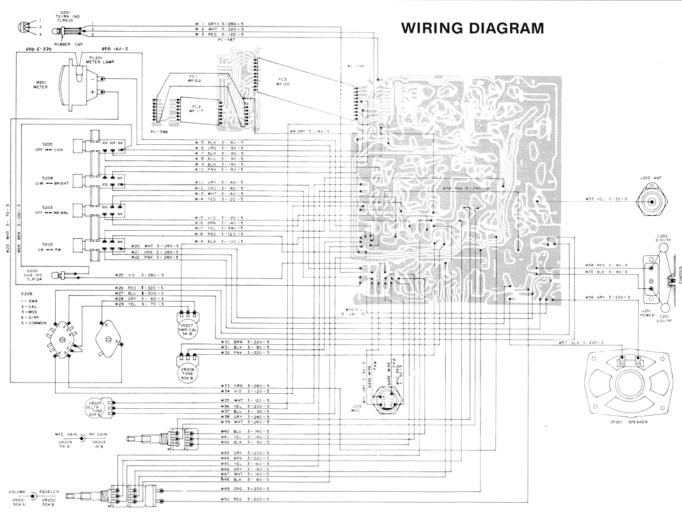
A PRODUCT OF CRAIG CORPORATION

REF. No.	CRAIG KEY No.	DESCR	IPTION		s SUGG PRICE
CABI	NET & C	CHAS	SIS (continued)		
30 *** 3322- 3334- 3357- 336- 337- 338- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 339- 39-	L103004- L150396 NSP NSP NSP TLRG101 TLR124 UR202 L103800 L104800 L104800 L104800 L104800 L104800 L103609 L103609 L103609 L103609 L103609 L1035530 L103533 L1035333 L1035333 L1035333 L1035333 L1035333 L1035333 L1055310 L105530- L10	PH H I A I A I A I A I A I A I A I A I A	rew M3x6 rew M3x8 pp Screw M3x8 pp Screw M3x6 ut M3 e Nut M3 r, LED TX/RX - Ch. 9 Ind Button, PA/ANL/DIM Ch. 9 are Mounting Kit Mic Mounting pp Screw M3.5x8 Washer M3.5 Washer M5 pp Screw M5x10 Sink	Sw	255 225 225 225 225 225 225 225 225 225
REF. No.		AIG No.	DESCRIPTION		s SUGG PRICE
COIL	LS, TF	RIM	VERS & XFORME	ERS	;
FL1 FL2 L1 L2 L3 L4 L6 L7 L8 L10 L11 L13 L14 L15 L16 L17 L18 L17 L18 L17 L18 L19 L21 L21 L21 L21 L22 T1	L10	133670 13671 144671 144675 144675 144675 1336675 144679 144679 144673 133684 133684 144677 144677 144671 144671 144671 144671	Ceramic Filter (FL048) Ceramic Filter (FL066) Trimmer (LA029) Trimmer (LA138) Trimmer (LA181) Trimmer (LA204) Trimmer (LA204) Trimmer (LA207) Trimmer (LA208) Trimmer (LA088) Trimmer (LA088) Trimmer (LC072) Coil (LE093) Coil (LE093) Coil (LE096) Trimmer (LC072) Coil (LE1096) Trimmer (LC072) Trimmer (LC072) Trimmer (LC072) Trimmer (LC073) Trimmer (LC072) Trimmer (LC072) Trimmer (LC072) Trimmer (LA201) Trimmer (LA201) Trimmer (LA218) Coil (LD077) Transformer, Output(TF1 Coil, AF Choke (TF083)	177)	1.40 6.45 .90 .90 .90 .85 1.75 .90 .80 .40 .40 .95 .25 .25 .90 .90 .90 .90 .80 .90 .90 .90 .90 .90 .90 .90 .90 .90 .9

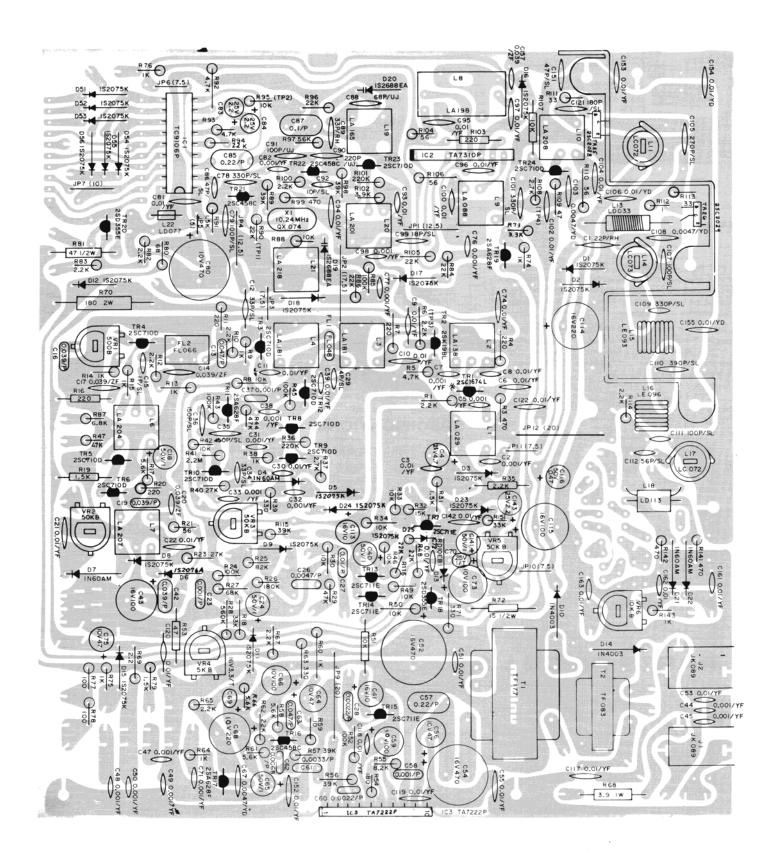
REF. No.	CRAIG KEY No.		s SUGG PRICE
MISCE	LLANE	OUS ELECTRICAL	
F201 FC1 FC2 FC3 J1 J2 J201 J202 J203 MIC1 P201 MIC1 P201 FC596 PC596 PC597 PL201 SW200 S202 S204 S205 S204 S205 S204 VR1 VR2 VR3 VR1 VR2 VR3 VR4 VR2 VR3 VR4 VR200	XFU002 L103800 L103800 L104800 L103609 L103609 L103608 L103607 L1055604 L103507 L105518 L105517 L105518 L103533 L103533 L103533 L103533 L103533 L103533 L104530 L104500 L105571 L105570 L105571 L105572 L105572 L105572 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105574 L105774 L105574 L105574 L105574 L105574 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774 L1055774	Fuse, 2A 7 Lead Flexible Cable 7 Lead Flexible Cable 10 Lead Flexible Cable 10 Lead Flexible Cable 10 Lead Flexible Cable Socket, P.A. Spkr Jack Socket, External Spkr Jack Socket, D.C. Power Conn Socket, Mic Connector Connector, Coaxial Antenna Meter, SIG/SWR/MOD Microphone (Complete) D.C. Power Plug w/Cord PCB w/Comp, Main PCB w/Comp, CH SELECT Sw Pilot Lamp, Multi-Meter Sw, POWER On/Off(See VR201) Assy, Push Sw Push Sw, PA/CB Select Push Sw, DIM/BRITE Select Push Sw, DIM/BRITE Select Push Sw, CH 9 (AUTO) On/Off Sw, METER SELECTOR Rotary Sw, CH SELECT Speaker (16 Ohm) Assy, Push Sw (S202,3,485) Semi-Fixed Res 500 Ohm Semi-Fixed Res 50k Ohm	1.00 .300 .300 .775 .775 1.775 1.775 1.775 29.900 29.30 19.65 .700 .705 .775 .775 .775 .776 .776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776 .7776
		CTORS	4.55
D1, 2, 3, 5, 8, 9, 11, 12, 15, 16, 17, 18, 23, 24, 51, 55, 56 D4, 7, 21, 22 D6 D10, 14 D13 D19, 20 D201 D201 D202 D401 IC1 IC2 IC3 TR1 TR2 TR3, 4, 5, 6, 8, 9.	IS2075K IN60AM IS2076A IN4003 R010EB1 IS2688EA TLRG101 TLR124 UR202 TC9106P TA7310P TA7222P 2SC763 2SK19	Diode Diode Diode Diode Diode Zener Diode Vari-Cap Diode LED, TX/RX Indicator LED, CH 9 Indicator LED, CH Ind IC (PLL) IC (TX MIX) IC (AF POWER) Transistor	35 355 40 1.055 2.055 9.165 2.585 4.40
10,12, 23,24 TR7,13, 14,15 TR11,17, 19 TR16,21, 22 TR18,20 TR25 TR26	2SC710 2SC711 2SA628 2SC458 2SD355 2SC2028 2SC2029	Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor	1.15 .95 .45 1.85 1.65 2.90

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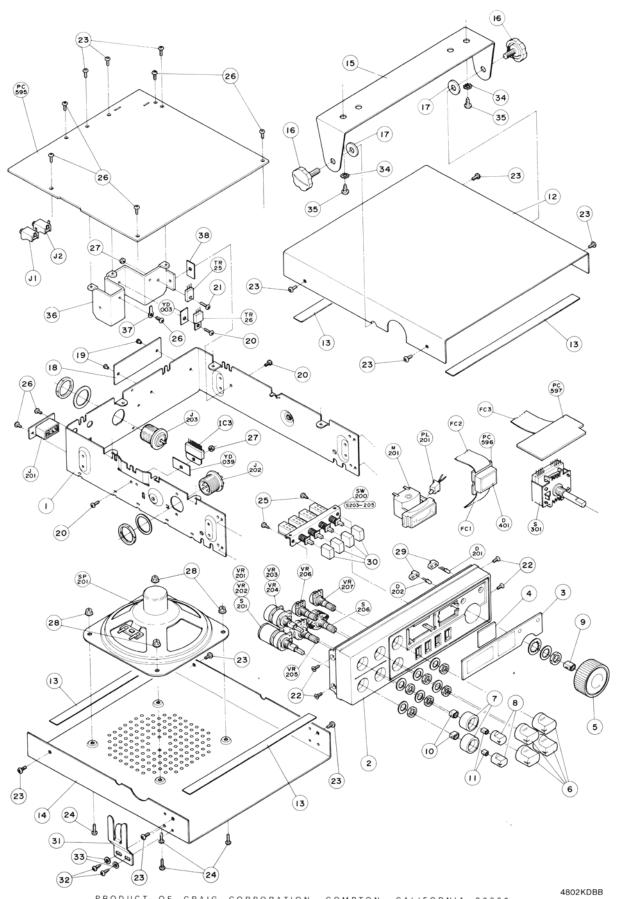




MAIN PCB



CABINET AND CHASSIS



PRODUCT OF CRAIG CORPORATION, COMPTON, CALIFORNIA 90220

Printed in U.S.A.