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# **REVISION HISTORY**

KTS 153 Maintenance Manual

Part Number: 006-15631-XXXX

For each revision, add, delete, or replace pages as indicated.

REVISION No. 7, February 2002

ITEM	ACTION
All pages	Full Reprint, new manual

Revision 7 creates a new stand-alone manual for the KTS 153 which was extracted from revision 6 of the KCS 55/55A maintenance manual, (P/N 006-05111-0006). Any revisions to the KTS 153, beginning with revision 7, will not be a part of the KCS 55/55A manual.

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# SECTION IV THEORY OF OPERATION

# 4.1 INPUT POWER REQUIREMENTS

The KTS 153 is powered by a 115VAC 400 Hz source plugged into the rear of the tester. This source generates  $\pm$ 15VDC,  $\pm$ 5VDC and  $\pm$ 14/28VDC internal supplies. A ground buss has been established for all of the internal circuitry which is connected to the tester chassis. The input 115VAC 400Hz is transformer isolated from the tester circuitry.

# 4.2 TESTING THE KI 525/KI 525A

Two cables are provided with the test set and are keyed at the tester end to insure a proper hookup. Each of the unit connector pins that are used are patched out to the front panel for monitoring purposes.

In addition to these two blocks of pinouts, redundant pinouts are provided in the area allocated to the specific test function with the connector and pin designation printed along side.

Unit power is brought out to the front panel with individual switches for the  $\pm$ 5VDC,  $\pm$ 15VDC and 14/28VDC. An adjust pot is provided to adjust the 14V or 28V to the correct value on the front panel voltmeter.

# 4.3 NAV DEVIATION BAR/TO-FROM

This section provides pinouts to monitor the D-BAR and TO-FM voltages along with a signal source and microamperes interface. A test point and calibration pot is provided to measure the resistance of the D-BAR and TO-FM meter movements without using a conventional ohmmeter that can' damage those meters, A precision 1000 ohm resistor is placed in series with the selected meter and the calibration pot is adjusted for a convenient voltage that produces something less than A full scale reading on the meter. By a voltage division process based on the voltage across the meter, the meter resistance can be determined.

# 4.4 GS DEVIATION

This source provides drive current for the GS pointer which can be monitored on the micro-amp meter by placing the meter switch to GS DEV. A Common Mode Rejection Switch is provided to test the glideslope circuit rejection of an input signal operating at a reference other than ground.

# 4.5 GS FLAG/NAV FLAG

These sources provide signal current to the respective KI 525/KI 525A circuits with the capability to test for Common Mode Rejection. These sources cannot be monitored on the Micro Amp Meter, however, pinouts are provided to monitor the voltage.

# 4.6 STEPPER MOTOR DRIVE

Simulated Compass Card drive signals can be generated and monitored with this section of the test set. An ON/OFF switch, a direction control and rate potentiometer along with the four-wire stepper motor monitor pinouts provides the means for complete testing of the motor, gear train and Compass Card mechanism.

# 4.7 +15V UNREGULATED SUPPLY

This supply is used to test the pull-in and drop-out voltage of the HDG flag mechanism when in the VARIABLE position. This switch should be left in the NORMAL position during general testing as the supply output is then fixed at +15VDC.

# 4.8 HDG VALID

This switch provides a ground for the HDG flag on the KI 525A. This switch serves no purpose on the KI 525 since the PWR flag on that unit is internally grounded.

# SECTION V TESTING

# 5.1 TEST PROCEDURE

1. Power ON (115 vac 400 Hz) +14/28vdc Switch OFF Lamp L1 \_\_\_\_\_ ON All CMR Switches OFF

2.	Measure the following voltages (JI01)	
	Pin f	_ +15±0.5vdc; 50mvac max
	Pin Y	15±0.5vdc; 50mvac max
	Pin s	_ +5±0.5vdc; 50mvac max
	Pin v	_ +15±0.5vdc (Normal)
		_ 0.0 to 14.5 ±1vdc (Variable)
	Pin H	_ 0.0±0.5vdc (S4 - OFF)
		_ 0.0±0.5vdc(S5 - 14vdc)
		_ 0.0 to +32±1.5vdc Adjustable (S4 - 28vdc)
	Pin D	_ 0.0±0.5vdc (S4 - OFF)
		_ 0.0±0.5vdc, (S4 - 28vdc)
		_ 0.0 to 17±1.5vdc Adjustable (S4 -14vdc)
	Pin N	_ 0.0 to 13±1vdc Adjustable (S4 - 14vdc)
		_ (+14v.lamps connected between Pins N and
		L, and t and L)
	Pin t	<ul> <li>0.0 to 13±1vdc Adjustable (S4 -14vdc)</li> </ul>
		_ (+14v lamps connected between Pins N and
		L, and t and L)
	Pin N	_0.0 to 26±2vdc Adjustable (S4 - 28vdc)
		_(+14v lamps connected between Pins N and
		L, and t and L)

- 3. Meter M1 measures voltage of Pin H or D.
- 4. Connect a 1K ohm load from J101 Pin b to V, and Z to T.

   S15 to DEV/TO-FM.

   Pin b to V
   (S6 Resistance; S7 D-Bar)

   0.0 to 0.29 ± 0.05vdc (Adjustable with RES CAL)

   Pin Z to T
   (S6 Resistance; S7 TO-FM)

   0.0 to 0.29±0.05vdc

4. (cont.)

	 (Adjustable with RES CAL)
Pin b to V	 (S6 - Deviation; S7 - D-Bar)
	 M2±150ua Minimum
	(Adjustable with Meter Current Adj.)
Pin Z to T	 (S6 Deviation; S7 - TO-FM)
	 M2 150 ua Minimum
	 (Adjustable with Meter Current Adj.)

5. S15 to GS DEV, 1K ohm load from J102 Pin E to B.

	Pin E to B	±0.25vdc min. Variable by R17
	_	M2 ± 200 ua Minimum
	_	(Micro amp value shall be equivalent to
		millivolt reading across Pin E to B of J102)
	Measure Pin E to	
	Ground with E to	
	B set at 0.0±0.1vdc	0.0±0.5vdc
	S9 to +CMR	
	Pin E to GND	+10.0±0.5vdc
	Pin B to GND	+10.0±0.5vdc
	S9 to -CMR	
	Pin E to GND	-10.0±0.5vdc
	Pin B to GND	-10.0±0.5vdc
	CMB to OFF	
6	Insert 1K ohm load from.	1102 Pin J to J101 Pin W (GS Flag)
0.	Pin 1102-1 to 1101-W	$0.0 \text{ to } \pm 0.49 \pm 0.1 \text{ ydc}$
		Variable by B32
	Set J to W to zero volts	
	S11 to +CMB	
	Pin .11021 to GND	$+10.0 \pm 0.5$ vdc
	Pin 1101-W to GND	+10.0 ± 0.5 vdc
	S11 to -CMB	
		$-10.0 \pm 0.5$ v/dc
	Pin 1102 Lto CND	10.0 ± 0.5 vdc
		10.0 ± 0.5 Vdc
-	he sout AIZ show he set for us	
7.	Insert 1K onm load from	J101 K to F (NAV FLAG)
	PINK to F	0.0 to +0.49 ± 0.1 VdC
		variable by K45
	Set K to F to zero volts	
	S14 to +CMR	

7.	(cont.)	
	Pin K to GND	 +10.0 ± 0.5vdc
	Pin F to GND	 +10.0 ± 0.5vdc
	CMR OFF	

 8. Stepper Motor Drive (see figure 5-1)

 S13 ON, S12 CW

 Pin J102 A

 Pin J102 D

 Pin J102 H

 Pin J102 L

 S12 CCW

 Repeat above step



FIGURE 5-1, Waveforms

THIS PAGE IS RESERVED

# ILLUSTRATED PARTS LIST

#### 6.1 General

The Illustrated Parts List (IPL) is a complete list of assemblies and parts required for the unit. The IPL also provides for the proper identification of replacement parts. Individual parts lists within this IPL are arranged in numerical sequence starting with the top assembly and continuing with the sub-assemblies. All mechanical parts will be separated from the electrical parts used on the sub-assembly. Each parts list is followed by a component location drawing.

Parts identified in this IPL by Honeywell part number meet design specifications for this equipment and are the recommended replacement parts. Warranty information concerning Honeywell replacement parts is contained in Service Memo #1, P/N 600-08001-00XX.

Some part numbers may not be currently available. Consult the current Honeywell catalog or contact a Honeywell representative for equipment availability.

#### 6.2 Revision Service

The manual will be revised as necessary to reflect current information.

Abbreviation	Name			
В	Motor or Synchro			
С	Capacitor			
CJ	Circuit Jumper			
CR	Diode			
DS	Lamp			
E	Voltage or Signal Connect Point			
F	Fuse			
FL	Filter			
FT	Feedthru			
1	Integrated Circuit			
J	Jack or Fixed Connector			
L	Inductor			
М	Meter			
Ρ	Plug			

#### 6.3 List of Abbreviations

Table 1 Abbreviations

Abbreviation	Name
Q	Transistor
R	Resistor
RT	Thermistor
S	Switch
т	Transformer
ТР	Test Point
U	Component Network, Integrated Circuit, Circuit Assembly
V	Photocell/Vacuum Tube
W	Waveguide
Υ	Crystal

Table 1 (Continued) Abbreviations



The above is only a sample. The actual format and style may vary slightly. A 'Find Number' column, when shown, references selected items on the BOM's accompanying Assembly Drawing. This information does not apply to every BOM. Therefore, a lack of information in this column, or a lack of this column, should not be interpreted as an omission.

#### Figure 6-1 Sample Parts List

# THIS PAGE IS RESERVED

#### 6.5 KTS 153 FINAL ASSEMBLY 071-05027-0000 Rev. 4

NAM	E	(KI 525/KI 525A '	TESTER) ASS'Y. NO. 071-502	7-0	0				• •
		KING RADIO CORP. P	PARTS LISTING			QU	ANTI	TΥ	
	SYMBOL	PART NUMBER	DESCRIPTION	ပိ	-00	-01	-02	-03	-04
	Ll		Lamp Neon, 115v		1				
	Tl	019-7040-00	Power Transformer		1				
	M1 M2		Meter, Voltage, 0-35v Mi Meter, Current, 200-0- 200uz	ı	1				
	A	057-1199-00	Mod Status Sticker		1				
	C1 C2 C3 C4 C5 C6 C7 C8	097-0066-01 097-0066-01 097-0066-01 097-0066-01 097-0066-01 097-0066-01 097-0066-01 096-1030-31	Cap, Elec, 50uf, 50v Cap, Elec, 4.7uf, 35.v		7				
	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	007-0208-00 007-0026-03 007-0208-00 007-0208-00 007-0026-03 007-0026-03 007-0026-03	Xistor, PWR NPN MJE-800 Xistor, NPN 2N3416 Xistor, PWR MJE-800 Xistor, PWR NPN MJE-800 Xistor, NPN 2N3416 Xistor, NPN 2N3416 Xistor, NPN 2N3416 Xistor, NPN 2N3416		3 5				
	I1 I2 I3 I4 I5 I6 I7 I8 I9 I10	120-3026-14 120-3056-13 120-3026-00 120-3022-01 130-3022-01 120-0001-00 120-0006-01 120-0007-01 120-3040-00 120-3022-01	Regulator, +15vdc, 7815 Regulator, -15vdc, 7915 Regulator, +5vdc, 7805 OP Amp, 1558 OP Amp, 1558 Integrated Ckt 7400 Integrated Ckt 7451 Integrated Ckt 5473 Integrated Ckt 555 OP Amp, 1558		1 1 3 1 1 1				
	S1 S2 S3 S4		DPST, 115vac,10A Min Switch, SPST Switch, DPST Switch, 4PDT, Center off		1 3 1 2				
	S6 S7 S8 S9 S10		Switch, DPDT Switch, DPDT Switch, SPDT Switch, SPDT, Center Off Switch, SPST		2 3 2				

NAM	E	(KI 525/KI 525A %	TESTER) ASS'Y. NO. (071-5027)	-00					
		KING RADIO CORP. P	ARTS LISTING	ш		QU	ANTI	ΤY	
<u> </u>	SYMBOL	PART NUMBER DESCRIPTION			-00	-01	-02	-03	-04
	S11 S12 S13 S14 S15		Switch, SPDT, Center Off Switch, SPDT Switch, SPDT Switch, SPDT,Center Off Switch, 3PDT						
	CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR10 CR11 CR12 CR13 CR14 CR15 CR16 CR17 CR18 CR19 CR19 CR20 CR21	$\begin{array}{c} 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-6022-00\\ 007-5011-19\\ 007-5011-24\\ 007-5011-24\\ 007-5011-01\\ 007-6029-00\\ 007-6029-0\\$	Diode, Silicon, TS6 Diode, Zener, 18v, 1N474 Diode, Zener, 18v, 1N474 Diode, Zener, 10v, 1N474 Diode, Silicon, 1N457 Diode, Silicon, 1N457 Diode, Silicon, 1N457 Diode, Silicon, 1N457 Diode, Silicon, 1N457 Diode, Silicon 1N457	5220	8 1 12				
	CR21 CR22 CR23 CR24 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21	$\begin{array}{c} 007-6029-00\\ 007-6029-00\\ 007-6029-00\\ 007-6029-00\\ 007-6029-00\\ \hline \\ 130-0152-43\\ 130-0101-43\\ \hline \\ 130-0102-23\\ 130-0102-23\\ \hline \\ 130-0102-23\\ \hline \\ 130-0392-23\\ \hline \\ 130-0392-23\\ \hline \\ 130-0392-23\\ \hline \\ 130-0512-22\\ \hline \\ 136-5112-22\\ \hline \\ 136-5112-22\\ \hline \\ 136-3321-22\\ \hline \\ 136-7682-22\\ \hline \\ 136-76$	Diode, Silicon 1N457 Diode, Silicon 1N457 Diode, Silicon 1N457 Diode, Silicon 1N457 Diode, Silicon 1N457 Res, 1W, 5%, 62K Res, 1W, 5%, 1.5K Res, 1W, 5%, 1.5K Res, 1W, 5%, 1.00 Res, Variable, 5K Res, 1/4W, 5%, 1.0K Res, 1/4W, 5%, 1.0K Res, 1/4W, 5%, 1.0K Res, 1/4W, 5%, 1.0K Res, 1/4W, 5%, 3.9K Res, 1/4W, 5%, 8.2K Res, 1/4W, 1%, 1.00K Res, 1/4W, 1%, 51.1K Res, 1/4W, 1%, 51.1K Res, 1/4W, 1%, 51.1K Res, 1/4W, 1%, 3.32K Res, 1/4W, 1%, 76.8K Res, 1/4W, 1%, 76.8K		1 1 1 2 8 2 1 1 1 2 3 6				

NAM	E,	(KI 525/KI 525A TESTER) ASS'Y NO. 071-5027-00							
		KING RADIO CORP. P	ARTS LISTING						
	SYMBOL	PART NUMBER	DESCRIPTION	ပိ	-00	-01	-02	-03	-04
	SYMBOL         R22         R23         R24         R25         R26         R27         R28         R29         R30         R31         R32         R33         R34         R35         R36         R37         R38         R39         R40         R41         R42         R43         R44         R45         R46         R47         R48         R49         R50         R51         R555         R56         J101         P101         J102         P102         J103         P104	PART NUMBER         136-5112-22         130-0102-23         130-0102-23         130-0102-23         136-5112-22         136-5112-22         136-5112-22         136-7682-22         136-7682-22         136-7682-22         136-7682-22         136-7682-22         136-7682-22         136-5112-22         136-5112-22         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0102-23         130-0511-23         130-0512-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-5112-22         136-512-22         136-512-23         130-0513-23         130-0513-23         130-0513-23         130-0513-23	DESCRIPTION           Res, 1/4W, 1%, 51.1K           Res, Variable, 10K           Res, 1/4W, 5%, 1.0K           Res, 1/4W, 5%, 1.0K           Res, 1/4W, 5%, 1.0K           Res, 1/4W, 5%, 1.0K           Res, Variable, 50K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 76.8K           Res, 1/4W, 1%, 76.8K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.0K           Res, 1/4W, 5%, 1.0K           Res, 1/4W, 5%, 510           Res, 1/4W, 5%, 510           Res, 1/4W, 1%, 14.7K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 51.1K           Res, 1/4W, 1%, 50.51K           Res, 1/4W, 1%, 50.51K           Res, 1/4W, 1%, 50.51K           Res, 1/4W, 1%, 50.51K           Res, 1/4W, 5%, 51K           Res, 1/4W, 5%, 51K           Res, 1/4W, 5%, 51K <td< td=""><td>000</td><td>-00 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>-01</td><td>-02</td><td>-03</td><td>-04</td></td<>	000	-00 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	-01	-02	-03	-04
	Hood	GM41-000J Positronic Ind.	Hood, Connector		2				
		002-0436-00 155-2058-00 035-01988-0000 035-01989-0000	Schematic Test Panel Wiring Harness & Cables Packing Instructions Packing Instructions		REF REF REF REF				

	PARTS LIST REVISION HISTORY		HISTORY	ENGR. APPROVAL
NAM		(KI 525/KI	525A TESTER)	ASS'Y. NO.
ASS'	Y. DWG.	0.4-0.0	UNIT	KRC AUTHORIZED PRINT
REV	CHANGE	SYMBOL	PART NUMBER	DESCRIPTION
1	19492	C8 S1 S14 S15	096-1030-31	P/N changed from 096-1030-05 Desc. changed from 5A Min to 10AMin Desc. changed from SPST to SPDT, Center Off Desc. changed from 4PDT to 3PDT
		R5 R6 R14 R16 R18 R24 R29 R31 R48 R53, 54, R55, 56	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Qty. changed from 3 to 2 Qty. changed from 7 to 8 P/N changed from 136-2552-22 P/N changed from 136-1471-22 P/N changed from 136-1471-22 P/N changed from 136-2552-22 Qty. added of 2 P/N changed from 136-2552-22 P/Ns added to B/M
2	21347	Q1 Q3	007-0208-00 007-0208-00	Qty. changed from 2 to 3 P/N changed from 007-0038-00
3	35485		057-1199-00	P/N added to B/M Qty. 1
4	94872		035-01988-0000 035-01989-0000	P/N added to B/M Qty. REF



FIGURE 6-2 P.C. BOARD ASSEMBLY, BOARD 201, DRAWING (Dwg. 300-06001-0000 Rev. 0)



FIGURE 6-3 P.C. BOARD ASSEMBLY, BOARD 202, DRAWING (Dwg. 300-06002-0000 Rev. 0)



FIGURE 6-4 P.C. BOARD ASSEMBLY, BOARD 203, DRAWING (Dwg. 300-06003-0000 Rev. 0)



FIGURE 6-5 P.C. BOARD ASSEMBLY, BOARD 204, DRAWING (Dwg. 300-06004-0000 Rev. 0)



FIGURE 6-6 P.C. BOARD ASSEMBLY, BOARD 205, DRAWING (Dwg. 300-06005-0000 Rev. 0)



FIGURE 6-7 P.C. BOARD ASSEMBLY, BOARD 206, DRAWING (Dwg. 300-06006-0000 Rev. 0)



FIGURE 6-8 P.C. BOARD ASSEMBLY, BOARD 209, DRAWING (Dwg. 300-06007-0000 Rev. 0)



FIGURE 6-9 P.C. BOARD ASSEMBLY, BOARD 210, DRAWING (Dwg. 300-06008-0000 Rev. 0)



FIGURE 6-10 P.C. BOARD ASSEMBLY, BOARD 211, DRAWING (Dwg. 300-06009-0000 Rev. 0)



FIGURE 6-11 P.C. BOARD ASSEMBLY, BOARD 212, DRAWING (Dwg. 300-06010-0000 Rev. 0)



FIGURE 6-12 P.C. BOARD ASSEMBLY, BOARD 213, DRAWING (Dwg. 300-06011-0000 Rev. 0)

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NOTES: I.FOR COMPLETE BILL OF MATERIAL SEE 071-5027-00. 2.FOR PIN TO PIN WIRING SEE 155-2058-00

> FIGURE 6-13 KTS 153 TEST SET (Dwg. 300-02004-0000 Rev. 5)

KTS 153



#### FIGURE 6-14 KTS 153 SCHEMATIC (Dwg. 002-00436-0000 Rev. 9)

KTS 153



#### FIGURE 6-14A KTS 153 SCHEMATIC (Dwg. 002-00436-0000 Rev. 7)

	Test Panel		Test Panel		155-2058-02 Cable #2		
From Test	Jack J102	TO J102 Pin	From Test	Jack J101	To J101 Pin	From Pl02 Pin	To P104 Pin
•	A B D E H J L P V X Y a b d e h j m n r s t u V	A B D E H J J L P V X Y a b d e h j m n r s t U C		D F H K L N P S T V W Y Z b C e f j k n s t V	D F H K L N P S T V W Y Z b c efjk n S t A	A B D E H J L P V X Y a b d e h j m n r s t U C	A B D E H J L P V X Y a b d e h j m n r s t u Y
	S	S				S	S

#### FIGURE 6-15 KTS 153 TEST PANEL WIRING HARNESS AND CABLES INTERCONNECT (Dwg. 155-02058-0000/0002 Rev. 3)

#### 155-2058-01 Cable #1

То
<u>P103 Pin</u>
_
D
F.
H
K
L
N
Р
S
Т
V
W
Y
Z
b
C
е
f
j
k
'n
S
t
v