

TK-690 / 790 / 890 – Service Manual Correction for AFO Output on D-Sub 25

The 90 Series Service Manuals listed below indicate the incorrect AFO output level at pin 17 of the D-Sub 25 connector. Please update the terminal function pages of the service manuals accordingly.

S/M Part Number	Model	Correction
B51-8460-xx	TK-690H(B)	Accessory DB25 Pin 17 =AFO 350mVrms (Typical)
B51-8438-xx	TK-790/790(B)/790H(B)	
B51-8439-xx	TK-890/890(B)/890H(B)	

Service Manual Terminal Functions

Connector No.	Terminal No.	Terminal Name	I/O	Terminal Function	
Acc 25 pin D-sub connector					
	1	RSI	O	RSSI signal output. 	
	2	AI1	I	Auxiliary input 1 (FPU selectable).	
	3	AI2	I	Auxiliary input 2 (FPU selectable).	
	4	AI3	I	Auxiliary input 3 (FPU selectable).	
	5	AI4	I	Auxiliary input 4 (FPU selectable).	
	6	AI5	I	Auxiliary input 5 (FPU selectable).	
	7	E	-	Earth.	
	8	AO2	O	Auxiliary output 1 (FPU selectable).	
	9	TXD2	O	Serial data output.	
	10	RXD2	I	Serial data input.	
	11	TXS	O	TX sense signal output. "H": TX, "L": Another	
	12	MCM	I	MIC mute signal input. "L": Mute on, "H": No change	
	13	MUDI	I	MIC Data signal input 1. (Default: DI) Input impedance: DI: 10kΩ or more MI: 600Ω Coupling: DI: DC coupling MI: DC coupling Frequency response: DI: -9.6kHz +1/-3dB (1kHz=0dB) MI: Compliance with TIA/EIA-603 Deviation: DI: 60% deviation or more. (1kHz 2.5Vp-p input) MI: 60% deviation (1kHz 5mV±1.5mV input)	
	14	NC (SB)	O	Non connection. (SB: 13.6V or 13.4V 0.5A max. Refer to page 20)	
	15	RSV1	-	Reserved.	
	16	RSV2	-	Reserved.	
	17	AFO	O	RX audio signal output (Same as CN504 pin No.1) RX condition : RX audio output. Output level 125mVrms. (Standard modulation) PA condition : MIC output. Output level 300mVrms. (1kHz 5mV input)	
	18	E	-	Earth.	
	19	DEO	O	Detector signal output. Output impedance 1kΩ or less Coupling DC coupling Output level : 100mVrms (Standard modulation)	
	20	AO1	O	Output frequency response : Wide : 300-4.8kHz +1/-2dB 4.8-9.6kHz +1/-24dB Narrow : 300-4.8kHz +1/-10dB (1kHz=0dB) Auxiliary output 1 (FPU selectable). Auxiliary output 3 (FPU selectable). Auxiliary output 4 (FPU selectable). Squelch signal output. "L" : Busy, "H" : Not busy Speaker mute signal input. "L" : Mute on "L" : Mute. 	
	21	AO3	O		
	22	AO4	O		
	23	SQ	O		
	24	SPM	I		
	25	ME	-	MIC earth.	
	Acc 9 pin connector				
	1	IGN	I	Ignition sense input.	
	2	ES2	O	BTL output for external speaker A.	
	3	RS1	I	Remote speaker switch.	
	4	HR1	O	Horn alert signal output 1.	
	5	HR2	O	Horn alert signal output 2.	
	6	ES1	O	BTL output for external speaker A.	
	7	OS1	O	BTL output for external speaker B (PA).	
	8	OS2	O	BTL output for external speaker B (PA).	
	9	E	-	Earth.	
	Acc 12 pin connector (Remote kit)				
	1	IGN	I	Ignition sense input.	
	2	SB	O	Power output after power (13.6V or 13.4V±15%).	
	3	E	-	Earth.	
	4	MIC	I	MIC signal input.	
	5	ME	-	MIC earth.	
	6	AI1	I	Auxiliary input 1 (FPU selectable).	
	7	AI2	I	Auxiliary input 2 (FPU selectable).	
	8	AO1	O	Auxiliary output 1 (FPU selectable).	
	9	AO2	O	Auxiliary output 2 (FPU selectable).	
	10	RS1	O	Remote speaker output.	
	11	RS2	O	Remote speaker output.	
	12	-	-	Non connection.	

17 AFO O RX audio signal output (Same as CN504 pin No.1)
 RX condition : RX audio output.
 Output level **350mVrms**.
 (Standard modulation)
 PA condition : MIC output.
 Output level 300mVrms.
 (1kHz 5mV input)