Kenwood NX 5700-5800-5900 Remoted Head programming with KCT-72
Using the MR-47X Interface cable

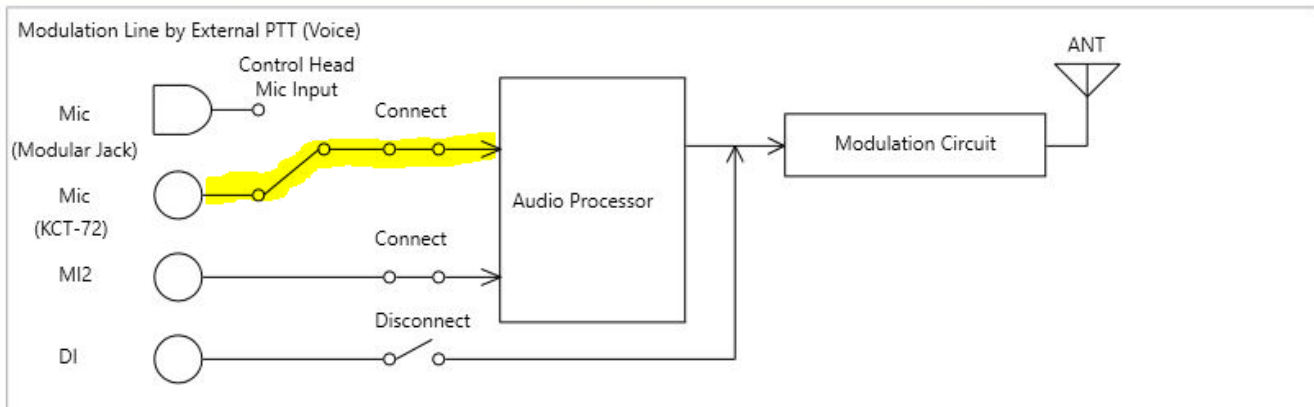In Extended function under the (AUX) section select Control head 1 AUX input 1 to External PTT (Voice)

Extended Function
[+] [-] AUX Remote Zone-Channel Modulation Line Mobile Function

AUX

Pin No.	I/O	Function	Active	Debounce
DB-25 4pin	Output	None	Low	☐
DB-25 8pin	Output	None	Low	☐
DB-25 12pin	Input	None	Low	☐
DB-25 13pin	Input	None	Low	☐
DB-25 15pin	Output	None	Low	☐
DB-25 16pin	Output	None	Low	☐
DB-25 20pin	Output	None	Low	☐
DB-25 21pin	Input	None	Low	☐
DB-25 22pin	Output	None	Low	☐
DB-25 23pin	Input	None	Low	☐
DB-25 24pin	Input	None	Low	☐
Control Head 1 AUX Input 1	Input	External PTT (Voice)	Low	☐
Control Head 1 AUX Input 2	Input	None	Low	☐
Control Head 1 AUX Output 1	Output	None	Low	☐
Control Head 1 AUX Output 2	Output	None	Low	☐

In Extended function under (Modulation Line) section select options
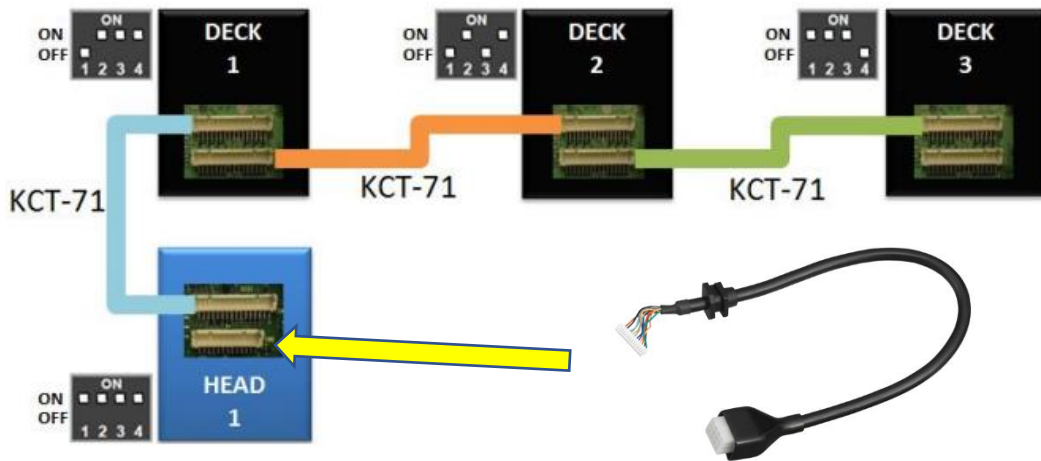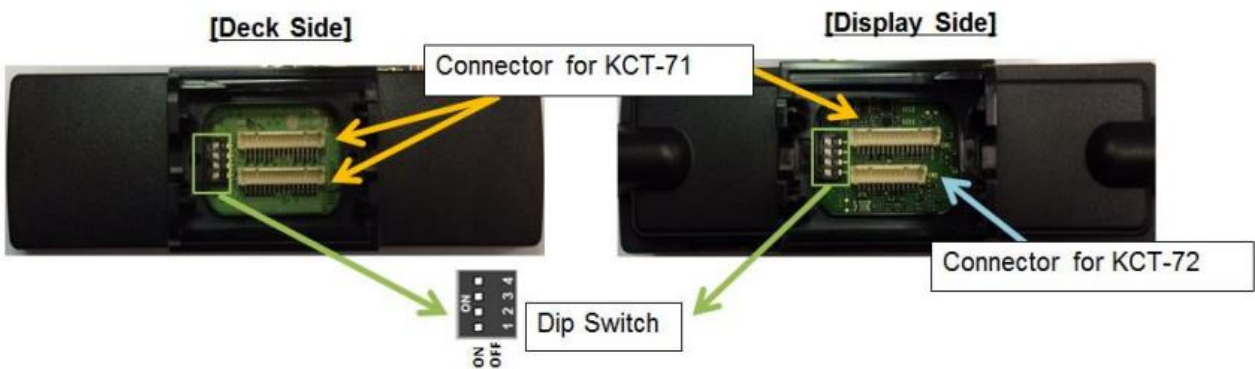
Mic PTT (Connect) for MiC Line / (Disconnect) for Ml2 / Control head Mic input (Modular Jack)

External PTT Voice (Connect) for MiC Line / (Connect) for Ml2 / Control head Mic input (KCT-72)

Modulation Line

PTT	Mic Line	MI2 Line	DI Line	with QT/DQT	with STE	Control Head Mic Input
Mic PTT	Connect	Disconnect	Disconnect	✔	✔	Modular Jack
External PTT (Voice)	Connect	Connect	Disconnect	✔	✔	KCT-72
External PTT (Data)	Disconnect	Disconnect	Connect	✔	✔	Modular Jack
Data PTT	Disconnect	Disconnect	Connect	✔	✔	Modular Jack

Modulation Line by External PTT (Voice)

KCT-72 connects to the Head 1 of a multi deck install

[Deck Side]

Connector for KCT-71

[Display Side]

Connector for KCT-72

Dip Switch

ON 1 2 3 4
ON OFF

DECK 1

ON OFF 1 2 3 4

DECK 2

ON OFF 1 2 3 4

DECK 3

ON OFF 1 2 3 4

KCT-71

KCT-71

KCT-71

ON OFF 1 2 3 4

HEAD 1

Connection to the KCT-72 using a MR-47X Interface cable

Connect to KCT-72

Connect to DB9 of the Intercom

For connection of an external speaker

Connect to the Blue and Green wires

coming out of the 12 pin Molex connector

IGN Sense
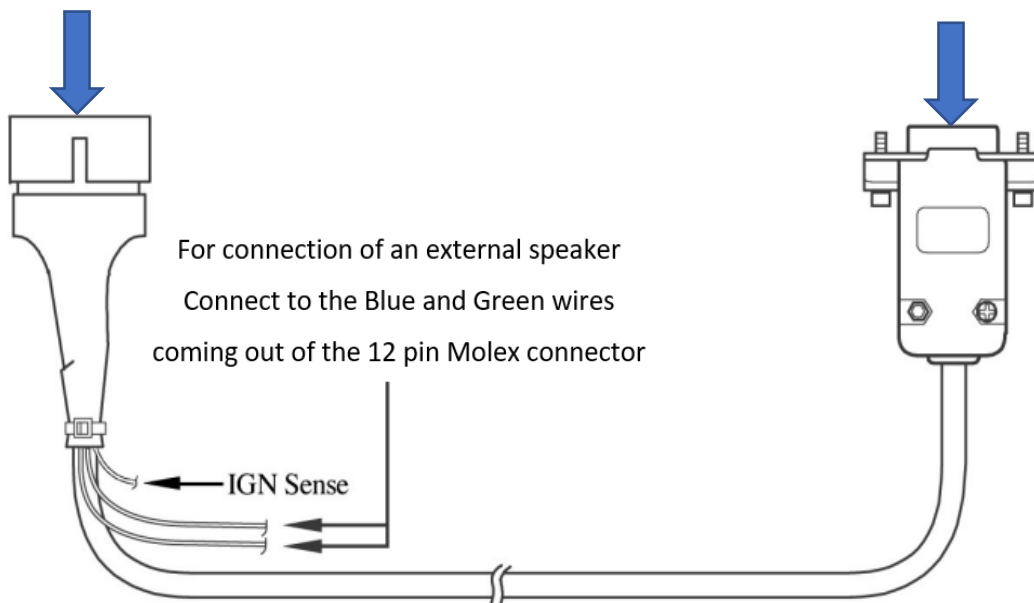
Pinout of the KCH-20R

KCH-20R

KCT-72

KES-5

Pin No.	Color	Name
1	RED	IGN
2	BLACK	SB
3	LIGHT GREEN	GND
4	LIGHT BLUE	AUX_MIC
5	YELLOW	AUX_ME
6	GRAY	Ai1
7	WHITE	Ai2
8	PURPLE	Ao1
9	PINK	Ao2
10	ORANGE	SP-
11	BROWN	SP+
12	DARK GREEN	GND
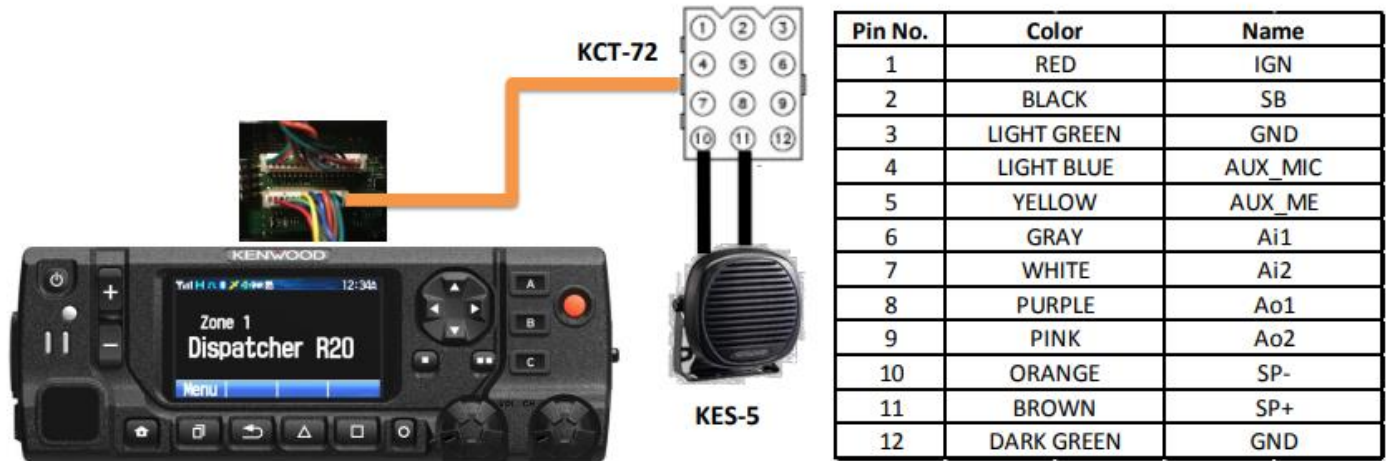
* KES-5 cannot connect to KCH-19 because KCH-19 does not have speaker output port.

MR-47X Wiring diagram

P1			N.C.		P2	
Tx Hi	1	BRN		RED	1	IGN SENSOR
Tx Lo	2	RED			2	SB
PTT Hi	3	ORN			3	GND
PTT Lo	4	YEL			4	MIC
	5	GRN	N.C.		5	MIC GND
Rx Hi	6	BLU			6	AUX INPUT 1
Rx Lo	7	VIO			7	AUX INPUT 2
	8	GRA	N.C.		8	AUX OUT 1
	9	BLK	N.C.		9	AUX OUT 2
					10	REMOTE SPKR OUT
					11	REMOTE SPKR OUT
					12	N.C.

GRN +

BLU —