



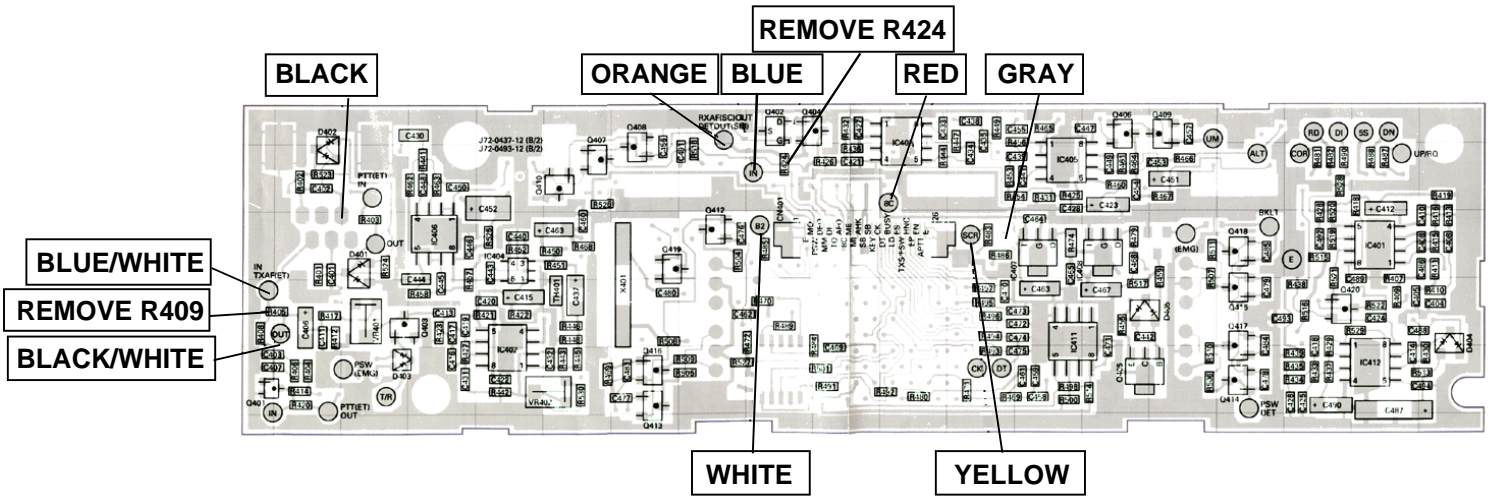
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~ APPLICATION NOTE ~

MODEL NO: NC804-101 ROLLING CODE SCRAMBLER	RADIO MFG: KENWOOD MODEL: TK760/860/762/862 SERIES MOBILES	BY: RMW DATE: 11/99	APP. # 1191 REV. C																																																								
TONE MODULE		RADIO																																																									
<p>P1</p> <table border="1"> <tr><td>1</td><td>BLACK/WHITE [MIC AUDIO OUTPUT]</td><td>—————</td><td>TO PAD LABELED “OUT” NEXT TO R405</td></tr> <tr><td>2</td><td>RED (+) [SUPPLY]</td><td>—————</td><td>TO PAD LABELED “8C” NEAR CN401</td></tr> <tr><td>3</td><td>ORANGE [RX AUDIO OUTPUT]</td><td>—————</td><td>TO PAD LABELED “OUT” NEXT TO R424</td></tr> <tr><td>4</td><td>WHITE/ORANGE [TX KEYING]</td><td>—————</td><td>NO CONNECTION</td></tr> <tr><td>5</td><td>GREEN/WHITE [VISUAL OUTPUT DRIVER]</td><td>—————</td><td>NO CONNECTION</td></tr> <tr><td>6</td><td>BLUE [RX AUDIO INPUT]</td><td>—————</td><td>TO PAD LABELED “IN” NEXT TO R424</td></tr> <tr><td>7</td><td>VIOLET [CODE SELECT C]</td><td>—————</td><td>NO CONNECTION</td></tr> <tr><td>8</td><td>GRAY [CODE SELECT A]</td><td>—————</td><td>TO PAD LABELED “B1” NEAR CN401</td></tr> <tr><td>9</td><td>WHITE [CODE SELECT B]</td><td>—————</td><td>TO PAD LABELED “B2” NEAR CN401</td></tr> <tr><td>10</td><td>BLACK (-) [SUPPLY]</td><td>—————</td><td>TO SYSTEM GROUND</td></tr> <tr><td>11</td><td>YELLOW [SCRAMBLE/CLEAR]</td><td>—————</td><td>TO PAD LABELED “SCR” NEAR CN401 [SEE RADIO 3]</td></tr> <tr><td>12</td><td>BLUE/WHITE [MIC AUDIO INPUT]</td><td>—————</td><td>TO PAD LABELED “IN” NEXT TO R405</td></tr> <tr><td>13</td><td>BROWN [PTT INPUT]</td><td>—————</td><td>TO PAD LABELED “8R” ON TX/RX PCB</td></tr> <tr><td>14</td><td>GREEN [SPEAKER BEEP]</td><td>—————</td><td>TO JUNCTION OF R85 & IC11-PIN 5 [SEE NOTE 4]</td></tr> </table>		1	BLACK/WHITE [MIC AUDIO OUTPUT]	—————	TO PAD LABELED “OUT” NEXT TO R405	2	RED (+) [SUPPLY]	—————	TO PAD LABELED “8C” NEAR CN401	3	ORANGE [RX AUDIO OUTPUT]	—————	TO PAD LABELED “OUT” NEXT TO R424	4	WHITE/ORANGE [TX KEYING]	—————	NO CONNECTION	5	GREEN/WHITE [VISUAL OUTPUT DRIVER]	—————	NO CONNECTION	6	BLUE [RX AUDIO INPUT]	—————	TO PAD LABELED “IN” NEXT TO R424	7	VIOLET [CODE SELECT C]	—————	NO CONNECTION	8	GRAY [CODE SELECT A]	—————	TO PAD LABELED “B1” NEAR CN401	9	WHITE [CODE SELECT B]	—————	TO PAD LABELED “B2” NEAR CN401	10	BLACK (-) [SUPPLY]	—————	TO SYSTEM GROUND	11	YELLOW [SCRAMBLE/CLEAR]	—————	TO PAD LABELED “SCR” NEAR CN401 [SEE RADIO 3]	12	BLUE/WHITE [MIC AUDIO INPUT]	—————	TO PAD LABELED “IN” NEXT TO R405	13	BROWN [PTT INPUT]	—————	TO PAD LABELED “8R” ON TX/RX PCB	14	GREEN [SPEAKER BEEP]	—————	TO JUNCTION OF R85 & IC11-PIN 5 [SEE NOTE 4]	<p align="center">HARDWIRED TO FRONT PANEL OF PCB</p> <p align="right">[SEE NOTES 1 & 2 IF USED]</p>	
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MODIFICATION		NOTES																																																									
<p>TONE MODULE: *IF NOT FACTORY MODIFIED*</p> <ol style="list-style-type: none"> INSTALL R1 & R6 AS 200K OHM CHIP RESISTORS. REPLACE CAPACITOR C2 WITH A ZERO (0) OHM CHIP RESISTOR. REMOVE UNUSED LEADS FROM P1. CUT ALL LEADS AS SHORT AS POSSIBLE AND DRESS LEADS AWAY FROM ALL R.F. CIRCUITRY. 		<ol style="list-style-type: none"> [TK760/860 ONLY] WHEN THE “AUXILIARY” KEY ON THE RADIO IS PRESSED & HELD, THE DISPLAY INDICATES “CODE 1”, AND THE SCRAMBLER KEY CODE CAN THEN BE CHANGED (1 THROUGH 4) BY THE CHANNEL UP/DOWN BUTTONS. THE NC804 KEY CODES 1 THROUGH 4 ARE REVERSED (i.e. THE NC804 CODE 1 IS SELECTED BY A “4” IN THE “SCRAMBLER CODE” SETTING OF THE RADIO). REFER TO KENWOOD’S SERVICE MANUAL FOR LOCATION OF COMPONENTS, SOLDER CONNECTIONS, AND PROGRAMMING OF “OPTIONAL” FUNCTIONS. IF THIS FEATURE IS EMPLOYED ADD A SERIES RESISTER TO THE “GREEN” LEAD FOR DESIRED AUDIO LEVEL [TYPICALLY 22K OHMS]. 																																																									
<p>RADIO:</p> <ol style="list-style-type: none"> REMOVE RESISTOR R405 FROM RADIO. REMOVE RESISTOR R424 FROM RADIO. TO ENABLE AND DISABLE SCRAMBLER, PROGRAM ONE OF THE FRONT PANEL SWITCHES FOR “AUXILIARY”. 																																																											

NOTICE: THIS IS SHOWN AS A GUIDE ONLY. PLEASE REFER TO INDIVIDUAL EQUIPMENT MANUFACTURER’S MANUALS TO VERIFY COMPATIBILITY. NORCOMM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION OR FOR ANY DAMAGE TO THE RADIO, TONE EQUIPMENT, OR OTHER ASSOCIATED EQUIPMENT RESULTING FROM THE USE OF THIS PROCEDURE.

CONTROL BOARD



TX-RX BOARD

