

| DESCRIPTION PRINTED CIRCUIT BOARD ASSEMBLY (U2 FAMILY) | | | DRWG. NO. 90-8689H-3 |
|---|------------|-------|--|
| REFER TO DRAWING NOS. 90-8689-11 | | | SHEET NO. 4 OF 4 SHEETS |
| | | | ORIG. ISSUED 05/14/96 |
| ITEM | P.P.NO. | QUAN. | DESCRIPTION |
| FT | 162R10 | 5 | INDUCTOR 10% 0.18 μH L203,210,211,248,249 |
| FV | 183A01 | 3 | TRANSISTOR PNP, SOT-23 (MMBT5087) Q206,208,209 |
| FW | 183C12 | 1 | TRANSISTOR DUAL GATE Ga As MES (NE25139) Q203 |
| FX | 183A35 | 1 | TRANSISTOR MOS FET (MDT3055EL) Q101 |
| FY | 183A38 | 1 | TRANSISTOR NPN SOT-23 (MMBT5089L) Q207 |
| FZ | 188A118 | 1 | DUAL OPERATIONAL AMPLIFIER U210 |
| GA | 188B210 | 1 | VOLTAGE DETECTOR U105 |
| GB | 145BF4993 | 2 | RESISTOR 1/10W 1% 499K R287,288 |
| GC | 150DA— | 2 | CAPACITOR 50V 10% (NOTE 1) C284,285 |
| GD | 184A08 | 2 | DUAL DIODES D203, 204 |
| GE | 150DB152JA | 1 | CAPACITOR 100V 5% 1500 pF C257 |

NOTES:

1. PARTS WHICH CHANGE PER ASSEMBLY NUMBER ARE NOTED IN THE FOLLOWING TABLE:

| 90-8689H ASSEMBLY NUMBERS/PARTS | | | | | |
|---------------------------------|------------------|------------------|--------------|--------------|--------------|
| REF. DESIGNATOR | 90A8689H | 90B8689H | 90C8689H | 90D8689H | 90E8689H |
| R259 | 145BF1001(1K) | 145BF4991(4.99K) | 145BF1001 | 145BF1001 | 145BF1001 |
| C284, C285 | DO NOT PLACE | 150DA333KB | 150DA333KB | DO NOT PLACE | DO NOT PLACE |
| *R-A1 | 145BF1001 | DO NOT PLACE | DO NOT PLACE | DO NOT PLACE | 145BF1001 |
| *R-B1 | DO NOT PLACE | 145BF1001 | DO NOT PLACE | DO NOT PLACE | 145BF1001 |
| *R-A2 | 145BF1001 | DO NOT PLACE | DO NOT PLACE | DO NOT PLACE | 145BF1001 |
| *R-B2 | DO NOT PLACE | 145BF1001 | DO NOT PLACE | DO NOT PLACE | 145BF1001 |
| R293 | 145BF6041(6.04K) | 145BF7501(7.50K) | 145BF6041 | 145BF6041 | 145BF6041 |
| R294 | 145BF2491(2.49K) | 145BF1821(1.82K) | 145BF2491 | 145BF2491 | 145BF2491 |
| R295 | 145BF3320(332) | 145BF3010(301) | 145BF3320 | 145BF3320 | 145BF3320 |
| U206 | 187A10R | 187A10R | 187B10R | 187C10R | 187D10R |
| U207 | 187A07 | 187A07 | 187B07 | 187A07 | 187C07 |
| R-C1 | DO NOT PLACE | DO NOT PLACE | 145BF1001 | DO NOT PLACE | DO NOT PLACE |
| R-C2 | DO NOT PLACE | DO NOT PLACE | 145BF1001 | DO NOT PLACE | DO NOT PLACE |
| R256 | 145BF33R2 | 145BF22R1 | 145BF33R2 | 145BF22R1 | 145BF33R2 |
| R257 | 145BF68R1 | 145BF1500 | 145BF68R1 | 145BF1000 | 145BF68R1 |
| C270 | 150DB688CA | 150DB688CA | 150DB568CA | 150DB688CA | 150DB688CA |
| L207 | 162B10 | 162B10 | 162C10 | 162B10 | 162B10 |
| R-D1 | DO NOT PLACE | DO NOT PLACE | DO NOT PLACE | 145BF1001 | DO NOT PLACE |
| R-D2 | DO NOT PLACE | DO NOT PLACE | DO NOT PLACE | 145BF1001 | DO NOT PLACE |
| R203 | 145BF4990 | 145BF4991 | 145BF4990 | 145BF4990 | 145BF4990 |
| R238 | 145BF2002 | 145BF4991 | 145BF2002 | 145BF2002 | 145BF2002 |
| C296 | DO NOT PLACE | 150DB221JA | DO NOT PLACE | DO NOT PLACE | DO NOT PLACE |
| R297 | 145BF33R2 | 145BF1210 | 145BF1000 | 145BF33R2 | 145BF33R2 |

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| ISS. | RECORD OF CHANGES MADE | EXP. DWG. NO. |
| 13 | 3/10/98 | ORIG. USED IN |
| 14 | 5/4/98 | SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847 - 866-2200 <i>Microphones - Electronic Components</i> |
| 15 | 12/21/98 | |
| | | TYPED GG 02/11/98 |
| | | CHECKED TM 2/18/98 |
| | | APPROVED |
| | | APPROVED C.J.W 3/10/98 |

*R-A1 AND R-B1 ARE GROUP INDICATORS FOR A AND B RESPECTIVELY. WHEN USED TOGETHER, THEY WILL INDICATE GROUP E.