

## PARTS LIST

GMRS680 (AMWU1893)

Note: This parts list shows only for "active components" in a transmitter, such as transistors, integrated circuits, crystals, and such.

| REF No | DESCRIPTION             | SPEC                      | FUNCTION      |
|--------|-------------------------|---------------------------|---------------|
| D101   | DIODE                   | 1SS390 TE61               | ANT SW        |
| D102   | DIODE                   | 1SS390 TE61               | ANT SW        |
| D201   | DIODE                   | GD LL4148                 | MIC SW        |
| D204   | DIODE                   | 1SS226 TE85L              | VOX DET       |
| D302   | DIODE                   | GD LL4148                 | PWR SW        |
| D303   | DIODE                   | GD LL4148                 | PWR SW        |
| D304   | DIODE                   | GD LL4148                 | PWR SW        |
| D305   | DIODE:LED               | LTST-S320GKT              | LED           |
| D306   | DIODE:LED               | LTST-S320GKT              | LED           |
| D401   | DIODE                   | MA2SV0200L                | VCO           |
| D402   | DIODE:VARICAP           | HVU307 TRU                | REF OSC       |
| IC101  | INTEGRATED CIRCUIT      | NJM2904M (TE3)            | AF AMP        |
| IC102  | INTEGRATED CIRCUIT      | NJM386M TE3               | SP AMP        |
| IC201  | INTEGRATED CIRCUIT      | NJM2904M (TE3)            | MIC AMP       |
| IC202  | INTEGRATED CIRCUIT      | NJM2904M (TE3)            | AF FILTER     |
| IC302  | INTEGRATED CIRCUIT      | NJM2870F03(TE1)           | REGULATOR     |
| IC303  | INTEGRATED CIRCUIT      | XC61CC2202MR/XC61AC2202MF | RESET         |
| IC304  | INTEGRATED CIRCUIT      | AT24C02N-10SI-1.8         | EEPROM        |
| IC401  | INTEGRATED CIRCUIT      | AN6311FA-V                | COMBO IC      |
| Q101   | TRANSISTOR              | DB-1075 55GN01M-TL        | RF AMP        |
| Q102   | TRANSISTOR              | DB-1075 55GN01M-TL        | MIXER         |
| Q103   | TRANSISTOR              | DB-862 2SC3052-T12-1F     | SQ SW         |
| Q104   | TRANSISTOR              | DB-090 2SA1365-T12-F T1   | SQ SW         |
| Q201   | FIELD EFFECT TRANSISTOR | DC-282 NE5510279A-T1      | TX FNL AMP    |
| Q202   | TRANSISTOR              | DB-803 2SC4226-R24 T1     | TX DRIVER     |
| Q203   | TRANSISTOR              | DB-1075 55GN01M-TL        | TX PRE DRIVER |
| Q204   | TRANSISTOR              | DB-862 2SC3052-T12-1F     | TX PWR H/L SW |
| Q205   | TRANSISTOR              | DB-862 2SC3052-T12-1F     | TX MUTE SW    |
| Q206   | TRANSISTOR              | DB-862 2SC3052-T12-1F     | MIC AMP       |
| Q301   | TRANSISTOR              | DB-092 2SA1235A-T12-1F    | PWR SW        |
| Q302   | TRANSISTOR              | DB-092 2SA1235A-T12-1F    | PWR SW        |
| Q304   | TRANSISTOR              | DB-862 2SC3052-T12-1F     | BACKLIT SW    |
| Q401   | TRANSISTOR              | DB-866 2SC5635-T22-1U     | LOCAL AMP     |

## PARTS LIST

GMRS680 (AMWUT893)

|      |            |                        |               |
|------|------------|------------------------|---------------|
| Q402 | TRANSISTOR | DB-1075 55GN01M-TL     | VCO           |
| Q403 | TRANSISTOR | DB-862 2SC3052-T12-1F  | RIPPLE FILTER |
| Q404 | TRANSISTOR | DB-862 2SC3052-T12-1F  | DATA SW       |
| Q405 | TRANSISTOR | DB-092 2SA1235A-T12-1F | TX FNL SW     |
| Q406 | TRANSISTOR | DB-092 2SA1235A-T12-1F | RX SW         |
| Q407 | TRANSISTOR | DB-092 2SA1235A-T12-1F | TX SW         |
| Q408 | TRANSISTOR | DB-092 2SA1235A-T12-1F | SYNTH SW      |
| Q409 | TRANSISTOR | DB-862 2SC3052-T12-1F  | TX FINAL SW   |
| X401 | CRYSTAL    | QX-724 10.1MHZ         | REF OSC       |

## GENERAL INFORMATION

General Information in accordance with the Federal Communications Commission Rules and Regulations, Volume II, Part 2.

1. Applicant:

Uniden America Corporation  
Engineering Services Office  
216 John Street, P.O. Box 580  
Lake City, South Carolina 29560  
Mr. James R. Haynes, Vice president

2. Equipment Identification:

FCC ID: AMWUT893  
MODEL : GMRS680

3. Quantity: Quantity Production is planned.

4. Emission Type: 11K0F3E

5. Frequency Range: 462.5625 – 467.7150MHz (FRS)  
462.5500 – 462.7250MHz (GMRS)

6. Operating Power: Conducted: 0.4 W (FRS) / 2.0 W (GMRS)  
ERP : 0.1 W (FRS) / 0.48 W (GMRS)

7. Max. Power Rating:

According to the section 95.639 of the FCC Rules.

8. DC voltage and current into Final Amplifying Device:

Refer to test data

9. Solid State Devices: Refer to Parts List/Tune-up Info

10. Circuit & Block Diagrams: Refer to EXHIBITS

11. Instruction Manual: Refer to User Manual

12. Tune-up Procedures: Refer to Parts List/Tune-up Info

13. Circuit Descriptions: Refer to Operational Description

Means for Frequency Stabilization  
Means for Attenuation of Spurious Emissions  
Means for Limiting Modulation

14. Description of Digital Modulation Techniques:

Not Applicable

15. Standard Test Conditions:

The following conditions and procedures were followed during testing of the equipment.

Room Temperature: 23 - 27 Degrees Celsius  
Room Humidity: 40 - 60 %

Power Supply Voltage: 6.0V (4 AAA Alkaline batteries only)

Note: Prior to testing, the unit is tuned-up according to the manufacturer's alignment procedure.

All presented data will represent the "worst case" parameter being measured.

16. Equipment Identification:

A drawing of the equipment's Identification Label and, its location are as shown in ID Label/Location Info.

17. Photographs:

External photographs of the unit as well as internal photos of the printed circuit boards are found in External Photos and Internal photographs.