

# Galaxy DX Radios DX44V

## Documentation Project

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| Dis  | Function        | Part #   |     |                                                                                     | LOC | B                  | C                            | E                            |
|------|-----------------|----------|-----|-------------------------------------------------------------------------------------|-----|--------------------|------------------------------|------------------------------|
| TR1  | NB Amp          | 2SC1675L | NPN |    | B-3 | 1.90 NB On         | 8.00 NB On                   | 1.10 NB On                   |
| TR2  | NB Amp          | 2SC1675L | NPN |    | C-2 | 0.70 NB On         | 2.60 NB On                   | 0.00 NB On                   |
| TR3  | NB Amp          | 2SC945P  | NPN |    | C-3 | 2.60 NB On         | 8.00 NB On                   | 1.80 NB On                   |
| TR4  | NB AGC          | 2SC945P  | NPN |    | B-2 | 0.00 NB On         | 8.30 NB On                   | 1.12 NB On                   |
| TR5  | NB Pulse Amp    | 2SC945P  | NPN |    | C-3 | 0.00 NB On         | 7.70 NB On                   | 0.00 NB On                   |
| TR6  | NB Pulse Amp    | 2SA733P  | PNP |    | C-2 | 7.70 NB On         | 0.00 NB On                   | 8.30 NB On                   |
| TR7  | NB Shunt Switch | 2SC945P  | NPN |    | C-2 | 0.00 NB On         | 0.00 NB On                   | 0.00 NB On                   |
| TR8  | 2nd RX Mixer    | 2SC1674L | NPN |    | D-2 | 0.70               | 7.40 AM / FM                 | 0.20 AM / FM                 |
| TR9  | AM/FM IF Amp    | 2SC1675L | NPN |    | D-3 | 0.70 AM / FM       | 3.20 AM / FM                 | 0.00                         |
| TR10 | AM/FM IF Amp    | 2SC1675L | NPN |    | D-4 | 3.20 AM / FM       | 7.40 AM / FM                 | 2.40 AM / FM                 |
| TR11 | AM/FM IF Amp    | 2SC1675L | NPN |   | D-4 | 2.40 AM / FM       | 7.20 AM / FM                 | 1.70 AM / FM                 |
| TR15 | AF PreAmp       | 2SC945P  | NPN |  | E-4 | 1.30               | 5.40                         | 0.70                         |
| TR16 | Squelch Switch  | 2SC945P  | NPN |  | E-5 | 0.80 TX & SQ       | 0.00                         | 0.00                         |
| TR17 | RFX RF Amp      | 2SC1674L | NPN |  | B-2 | 2.20               | 8.00                         | 1.50                         |
| TR18 | 1st. RX Mixer   | J310     | FET |  | C-2 | (S) 1.90           | (D) 8.36                     | (G) 0.00                     |
| TR19 | 1st IF Amp      | 2SC1674L | NPN |  | D-3 | 1.6                | 6.60                         | 0.80                         |
| TR23 | AM Det. Switch  | 2SC945P  | NPN |  | D-4 | 0.70 AM            | 0.00                         | 0.00                         |
| TR24 | PLL Ref. Osc.   | 2SC1675L | NPN |  | D-2 | 2.50               | 6.40                         | 1.80                         |
| TR25 | VCO             | 2SC1675L | NPN |  | D-1 | 2.10               | 7.30                         | 1.40                         |
| TR26 | VCO Buffer      | 2SC1675L | NPN |  | D-1 | 0.60               | 3.80                         | 0.00                         |
| TR30 | Carrier Osc.    | 2SC1675L | NPN |  | C-5 | 3.00               | 6.40                         | 2.40                         |
| TR32 | AMC Shunt       | 2SC945P  | NPN |  | E-6 | 0.70 RX<br>0.00 TX | 0.00                         | 0.00                         |
| TR34 | AMC/ALC Amp     | 2SA733P  | PNP |  | B-3 | 7.80 TX            | 0.60 TX                      | 8.30 TX                      |
| TR36 | RX Voltage Sw.  | 2SA1282  | PNP |  | F-6 | 7.80               | 8.52 RX<br>0.00 TX           | 8.55                         |
| TR37 | RX Voltage Sw.  | 2SC945P  | NPN |  | E-6 | 0.00 TX<br>0.70 RX | 0.10 RX<br>8.00 TX           | 0.00                         |
| TR38 | TX Voltage Sw.  | 2SA1282  | PNP |  | F-6 | 8.03 RX<br>7.75 TX | 0.00 RX<br>8.37 TX           | 8.55                         |
| TR40 | Voltage Reg.    | 2SC945   | NPN |  | C-6 | 1.60               | 12.66 RX<br>12.42 AM / FM TX | 1.08                         |
| TR41 | Voltage Reg.    | 2SA473   | PNP |  | D-6 | 12.40 AM / FM TX   | 8.53                         | 13.27 RX<br>13.16 AM / FM TX |
| TR42 | AF Amp          | 2SC945P  | NPN |  | C-6 | 1.33               | 2.08                         | 0.74                         |
| TR43 | RF Final Amp    | 2SC2312  | NPN |  | A-2 | 0.60 AM / FM TX    | 6.64 AM / FM / TX            | 0.00                         |
|      |                 |          |     |                                                                                     |     |                    |                              |                              |

|             |                 |          |     |                                                                                   |     |                                 |                      |                  |
|-------------|-----------------|----------|-----|-----------------------------------------------------------------------------------|-----|---------------------------------|----------------------|------------------|
| <b>TR44</b> | RF Driver       | 2SC2166C | NPN |  | A-1 | 0.73 AM / FM TX                 | 6.64 AM / FM / CW TX | 0.00             |
| <b>TR45</b> | RF Predriver    | 2SC1973  | NPN |  | B-1 | 1.40 TX                         | 7.40 AM / FM TX      | 0.80             |
| <b>TR46</b> | RF Amp & Buffer | 2SC1906  | NPN |  | B-1 | 1.40 TX                         | 6.10 TX              | 0.70 TX          |
| <b>TR49</b> | AM Mod. Amp     | 2SC945   | NPN |  | B-6 | 6.10 AM / FM / CW TX            | 12.10 AM / FM TX     | 5.60 AM / FM /TX |
| <b>TR50</b> | AM Mod. Amp     | 2SA473   | PNP |  | B-6 | 12.10 AM / FM TX<br>12.60 CW TX | 5.60 AM / FM /TX     | 12.50 AM / FM TX |
| <b>TR51</b> | AM Mod. Amp     | 2SB754Y  | PNP |  | B-6 | 12.50 AM / FM TX                | 5.60 AM / FM TX      | 13.00 AM / FM TX |
| <b>TR53</b> | AMC Amp         | 2SC945   | NPN |  | B-4 | 0.90                            | 7.70                 | 1.70 AM / FM     |

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