

Bill of Materials  
770639PF.S02

BTR-800 PARTS LIST MAIN AUDIO

| Quan | Type<br>PATTERN                             | Value   | Ref Designators |
|------|---|---------|-----------------|
| 7    | 1DA<br>U1,U25,U28,U35,U36,U37,<br>BE-S08    | LM833   | U40             |
| 3    | 1DA<br>BE-S08                               | LM833   | U19,U29,U38     |
| 7    | 1DA<br>U24,U3,U31,U33,U42,U46,<br>BE-S08    | LM393   | U6              |
| 1    | 1DA   | LM358   | U47             |
| 2    | 2951<br>BE-S08                              | LP2951  | U1103,U1104     |
| 1    | 2951_SPECIAL<br>BE-S08                      | 25LC640 | U1115           |
| 1    | 34119N<br>BE-S08                            | MC34119 | U5              |
| 1    | 3DA<br>BE-S08                               | LM833   | U1              |
| 2    | 4053<br>BE-S016                             | VAL     | U39,U4          |
| 6    | 4053A<br>U11,U12,U13,U14,U15,U26<br>BE-S016 | 4053    |                 |
| 2    | 4053A<br>BE-S016                            | 4053    | U16,U2          |
| 1    | 4053A<br>BE-S016                            | 4053    | U17             |
| 1    | 4053A<br>BE-S016                            | 4053    | U39             |
| 1    | 4053A<br>BE-S016                            | 4053    | U4              |
| 1    | 4066  | 4066    | U49             |

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| PATTERN                  |           |            |                      |
| =====                    |           |            |                      |
| ====                     |           |            |                      |
|                          | BE-SO14   |            |                      |
| 11                       | 4DA       | LM833      |                      |
| U18,U20,U21,U22,U27,U30, | BE-SO8    |            | U32,U34,U41,U43,U44  |
| 6                        | 4DA       | LM833      |                      |
| U25,U28,U35,U36,U37,U40  | BE-SO8    |            |                      |
| 1                        | 556       | LM556      | U7                   |
|                          | BE-SO14   |            |                      |
| 2                        | 575EC     | SA575      | U23,U45              |
|                          | BE-SSOP20 |            |                      |
| 2                        | 575EE     | SA575      | U10,U9               |
|                          | BE-SSOP20 |            |                      |
| 2                        | 78L       | LM340S-5.0 | U48,U8               |
| 29                       | AR        | VAL        |                      |
| U50,U51,U52,U53,U54,U55, |           |            | U56,U57,U58,U59,U60, |
| U61,                     |           |            | U62,U63,U64,U65,U66, |
| U67,                     |           |            | U68,U69,U70,U71,U72, |
| U73,                     |           |            | U74,U75,U76,U77,U78  |
| 27                       | C         | 10PF       |                      |
| C10,C103,C110,C111,C112, | BE-0603   |            | C42,C43,C44,C45,C48, |
| C114,C117,C120,C38,C39,  |           |            | C50,C64,C66,C71,C74, |
| C49,                     |           |            | C80,C84,C85,C88,C89  |
| C79,                     |           |            |                      |
| 4                        | C         | .022UF     | C104,C129,C59,C75    |
|                          | BE-0603   |            |                      |
| 2                        | C         | 390PF      | C105,C76             |
|                          | BE-0603   |            |                      |

|   |              |         |          |
|---|--------------|---------|----------|
| 2 | C<br>BE-0603 | .0047UF | C106,C77 |
| 2 | C<br>BE-0603 | .0015UF | C107,C78 |

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|-------|-----------------|--------|---|
| ===== |                 |        |   |
| 1     | C               | 22PF   | C1148   |
| 1     | C<br>BE-0603    | .1UF   | C1149   |
| 2     | C<br>BE-0603    | 22PF   | C124,C54  |
| 2     | C<br>BE-0603    | 1500PF | C130,C60  |
| 5     | C<br>BE-0603    | .01UF  | C131,C132,C19,C61,C62   |
| 4     | C<br>BE-0603    | .001UF | C133,C17,C20,C63  |
| 8     | C<br>BE-0603    | 100PF  | C140,C141,C142,C15,C4,<br>C8,C93,C98  |
| 2     | C<br>BE-0603    | 56PF   | C94,C99   |
| 20    | CAP<br>BE-0603  | .01UF  | C1101,C1102,C1103,C1104,<br>C1105,C1106,C1108,C1109,<br>113,<br>127,<br>140<br>C1110,C1111,C1112,C1<br>C1115,C1116,C1119,C1<br>C1130,C1131,C1132,C1 |
| 2     | CAP<br>BE-0603  | 22PF   | C1117,C1118   |

6 CAP  
C1120,C1122,C1124,C1133,  
BE-0603

0.1UF

C1135,C1137

2 CAP  
BE-0603

.047UF

C1121,C1134

4 CAP  
C1128,C1129,C1141,C1142  
BE-1206

.47UF

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| Quan | Type<br>PATTERN   | Value | Ref Designators   |
|------|---|-------|---|
| ==== |   |       |   |
| 2    | CAP<br>BE-0603  | 22 PF | C1143,C1144   |
| 6    | CAP<br>C1151,C1152,C1153,C1154,<br>BE-0603                                      | .01   | C1155,C1156   |
| 20   | CE<br>C1,C1107,C1114,C1123,<br>BE-ST-A<br>C1125,C1136,C1138,C122,<br>33,<br>7   | 10UF  | C126,C2,C23,C26,C3,C<br>C46,C47,C52,C56,C6,C  |
| 45   | CE<br>BE-ST-A<br>C1139,C1145,C1146,C115,<br>137,<br>C21,<br>C41,<br>C72,<br>92, | 1UF   | C100,C11,C1126,C113,<br>C116,C121,C123,C125,<br>C128,C13,C135,C136,C<br>C138,C139,C145,C146,<br>C147,C148,C151,C152,<br>C24,C28,C31,C35,C40,<br>C51,C53,C55,C58,C65,<br>C73,C81,C86,C87,C9,C<br>C97 |

|   |   |       |              |
|---|---|-------|--------------|
| 2 | CE<br>RB.1/.27                            | 100UF | C101,C95     |
| 2 | CE<br>RB.1/.27                            | 22UF  | C102,C96     |
| 2 | CE  | .1UF  | C108,C109    |
| 7 | CE<br>C118,C119,C144,C67,C68,<br>BE-ST-B  | 10UF  | C90,C91      |
| 9 | CE<br>C12,C27,C30,C34,C37,C69,<br>BE-ST-A | .1UF  | C70,C82,C83  |
| 8 | CE<br>C127,C14,C25,C29,C32,<br>BE-ST-A    | 2.2UF | C36,C5,C57   |
| 3 | CE<br>RB.200X.420                         | 470UF | C134,C16,C22 |

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|------|----------------------------|-----------|-----------------|
| ==== |                            |           |                 |
| 3    | CE                         | 1UF       | C143,C149,C150  |
| 1    | CE<br>BE-AE8               | 100UF     | C18             |
| 1    | CRYSTAL<br>XTAL-HC-18/USID | 4MHZ      | Y1101           |
| 1    | CRYSTAL<br>XTAL-HC-18/USID | 24.576MHZ | Y1102           |
| 1    | CV<br>BE-VC-MURATA         | 5-20PF    | VC1101          |
| 1    | D<br>BE-SOT23              | TMPD4148  | D1              |
| 1    | D<br>BE-SOT23              | TMBD4148  | D11             |

|   |                  |           |       |
|---|------------------|-----------|-------|
| 1 | D<br>BE-SMC      | SK34      | D2    |
| 2 | D<br>BE-MLL41    | DL4004    | D7,D8 |
| 1 | DD2<br>BE-SOT23  | BAV99     | D9    |
| 1 | DD56<br>BE-SOT23 | BAW56     | D10   |
| 2 | DD70<br>BE-SOT23 | BAV70     | D5,D6 |
| 1 | DZ<br>BE-SOT23   | 5.1V      | D1101 |
| 1 | DZ<br>BE-SOT23   | BZX84C5V1 | D3    |
| 1 | DZ               | MMBZ5240  | D4    |

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|--------------------------|-----------------|-------|--|
| =====                    |                 |       |  |
| ====                     |                 |       |  |
|                          | BE-SOT23        |       |  |
| 2                        | E               | VAL   | E1,E2  |
| 2                        | E<br>PAD050     | VAL   | E1101,E1107  |
| 40                       | FB              | VAL   |  |
| FB1,FB10,FB11,FB12,FB13, | BE-0805         |       | FB14,FB15,FB16,FB17,<br>FB18,FB19,FB2,FB20,F                         |
| B21,                     |                 |       | FB22,FB23,FB24,FB25,<br>FB26,FB27,FB28,FB29,                         |
| FB3,                     |                 |       | FB30,FB31,FB32,FB33,<br>FB34,FB35,FB36,FB37,<br>FB38,FB39,FB4,FB40,F |
| B5,                      |                 |       | FB6,FB7,FB8,FB9  |
| 1                        | JH              | J10-2 | J10  |

|   |                         |       |                   |
|---|-------------------------|-------|-------------------|
|   | JACK-RJ11               |       |                   |
| 1 | JH<br>JACK-RJ11         | J5-2  | J5                |
| 1 | JMPR<br>BE-0603         | VAL   | JM1101            |
| 3 | JX3F<br>XLR-NC3FAH-FEMA | VAL   | J3,J6,J8          |
| 4 | JX3M<br>XLR-NC3MAH-MALE | VAL   | J2,J4,J7,J9       |
| 1 | KDD<br>RELAY-G5V-2      | VAL   | K2                |
| 1 | KSD<br>RELAY-G5V-2      | VAL   | K1                |
| 2 | LA<br>BE-IND-5022       | 100UH | L1,L2             |
| 3 | M4-32/32-10JC           |       | U1110,U1111,U1112 |

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| Quan  | Type<br>PATTERN     | Value  | Ref Designators |
|-------|---------------------|--------|-----------------|
| ===== |                     |        |                 |
| ====  |                     |        |                 |
|       | 44-PIN-PLCC         |        |                 |
| 2     | MOLEX14M<br>MOLEX14 | VAL    | J1105,J1106     |
| 1     | MOLEX20W<br>MOLEX20 | VAL    | J1102           |
| 1     | MOLEX5W<br>MOLEX5   | VAL    | J1113           |
| 1     | MOLEX8W<br>MOLEX8   | VAL    | J1108           |
| 1     | NC7S32A             | NC7S32 | U1113           |
| 1     | P<br>MOLEX4         | J1-1   | J1              |
| 2     | P                   | VAL    | J11,J12         |

|   |   |                                      |     |       |
|---|---|--------------------------------------|-----|-------|
|   |   | PAD100                               |     |       |
| 1 | P | BSW107S                              | VAL | J1114 |
| 1 | P | JACK-6401051                         | J13 | J13   |
| 1 | P | CONN-WIELAND                         | VAL | J14   |
| 1 | P | MOLEX2                               | J15 | J15   |
| 1 | P |                                      | VAL | P1114 |
| 7 | P |                                      | VAL |       |
|   |   | P13, P14, P16, P22, P23, P24, MOLEX5 |     | P25   |
| 1 | P |                                      | VAL | P15   |

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|-------|------|---------|-------|--------------------|
| ===== |      |         |       |                    |
| ===== |      |         |       |                    |
| 1     | P    | MOLEX5  | P17   | P17                |
| 1     | P    | MOLEX12 | VAL   | P18                |
| 1     | P    | PAD100  | P19   | P19                |
| 1     | P    | MOLEX4  | VAL   | P20                |
| 1     | P    | MOLEX2  | VAL   | P21                |
| 4     | P    | MOLEX3  | VAL   | P26, P27, P28, P29 |
| 1     | P    |         | VAL   | P30                |



|    |  |           |        |
|----|--|-----------|--------|
| 1  | P<br>PAD100  | P31       | P31    |
| 1  | POT<br>POT-PIHER   | 20K       | VR1101 |
| 15 | QNEBC<br>Q10,Q11,Q12,Q13,Q14,Q17,<br>BE-SOT23<br>Q18,Q19,Q2,Q3,Q4,Q5,Q6, | MMBT3904  | Q7,Q9  |
| 1  | QNEBC  | MMBT3904  | Q1101  |
| 1  | QNT<br>BE-SOT23  | ZVN4106   | Q16    |
| 1  | QPEBC<br>BE-SOT23  | MMBT3906  | Q1     |
| 1  | QPT<br>BE-TO252AA  | IRFR9024N | Q15    |

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| Quan | Type<br>PATTERN | Value     | Ref Designators   |
|------|-----------------|-----------|---|
| 1    | QPT<br>BE-TO252 | IRFR9024N | Q8  |
| 7    | R<br>BE-0603    | 1K        | R1,R10,R1119,R1120,<br>R1121,R1122,R242   |
| 98   | R<br>BE-0603    | 10K       | R100,R101,R102,R103,<br>R104,R107,R109,R1118,<br>R113,R118,R120,R121,<br>R123,R124,R136,R141,<br>R143,R144,R154,R155,<br>R156,R16,R162,R163,R<br>164,<br>9,<br>201,<br>214,<br>R166,R17,R18,R187,R1<br>R197,R199,R20,R200,R<br>R207,R209,R21,R210,R<br>R215,R22,R220,R221,R |

|                         |         |       |                      |
|-------------------------|---------|-------|----------------------|
| 222,                    |         |       | R225,R227,R23,R231,R |
| 24,                     |         |       | R245,R246,R249,R253, |
| ,                       |         |       | R254,R27,R28,R29,R35 |
| 57,                     |         |       | R36,R45,R49,R5,R53,R |
| R64,                    |         |       | R59,R60,R61,R62,R63, |
| R73,                    |         |       | R65,R66,R67,R68,R72, |
| R79,                    |         |       | R74,R75,R76,R77,R78, |
| R85,                    |         |       | R80,R81,R82,R83,R84, |
| 94,                     |         |       | R86,R87,R88,R9,R93,R |
|                         |         |       | R95,R96,R97          |
|                         | 2 R     | 649   | R105,R223            |
|                         | BE-0603 |       |                      |
|                         | 2 R     | 47.5K | R106,R224            |
|                         | BE-1206 |       |                      |
|                         | 4 R     | 1.5K  | R108,R226,R40,R42    |
|                         | BE-0603 |       |                      |
|                         | 14 R    | 39.2K |                      |
| R11,R129,R13,R130,R145, | BE-0603 |       | R147,R150,R151,R157, |
|                         |         |       | R159,R192,R193,R202, |
|                         |         |       | R204                 |
|                         | 2 R     | 33.2K | R110,R228            |

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| PATTERN |         |       |                 |
| =====   |         |       |                 |
| =====   |         |       |                 |
|         | BE-1206 |       |                 |
| 1       | R       | 27K   | R1108           |
|         | BE-0603 |       |                 |
| 2       | R       | 15K   | R1109,R1111     |
|         | BE-0603 |       |                 |
| 3       | R       | 26.7K | R111,R229,R4    |

|    |  |        |                      |
|----|--|--------|----------------------|
|    | BE-0603                                  |        |                      |
| 1  | R<br>BE-0603                             | 7.2K   | R1110                |
| 1  | R  | 10K    | R1114                |
| 1  | R  | 1K     | R1115                |
| 1  | R<br>BE-2010                             | 10 OHM | R1116                |
| 4  | R<br>BE-0603                             | 56.2K  | R112,R114,R230,R232  |
| 3  | R<br>BE-0603                             | 2.21K  | R115,R233,R8         |
| 4  | R<br>BE-0603                             | 4.75K  | R116,R119,R208,R234  |
| 6  | R<br>R117,R139,R190,R235,R37,<br>BE-0603 | 6.81K  | R39                  |
| 8  | R<br>R12,R133,R146,R152,R153,<br>BE-0603 | 22.1K  | R158,R181,R203       |
| 4  | R<br>BE-0603                             | 47.5K  | R122,R175,R186,R213  |
| 10 | R<br>BE-0603<br>R178,R185,R216,R217,R89, | 301    | R125,R126,R167,R168, |

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| PATTERN |  |       |   |
| =====   |  |       |   |
| 30      | R<br>R127,R128,R14,R148,R149,<br>BE-0603<br>R15,R160,R161,R169,R170, | 100K  | R90<br><br>R171,R172,R205,R206,<br>R211,R212,R218,R219, |

|                         |         |       |                      |
|-------------------------|---------|-------|----------------------|
| 250,                    |         |       | R243,R247,R248,R25,R |
| R91,                    |         |       | R251,R252,R26,R3,R7, |
|                         |         |       | R92                  |
|                         | 4 R     | 4.99K | R131,R132,R194,R195  |
|                         | BE-0603 |       |                      |
|                         | 9 R     | 20K   | R134,R173,R174,R176, |
| R179,R180,R183,R184,R70 | BE-0603 |       |                      |
|                         | 2 R     | 3.32K | R135,R196            |
|                         | BE-1206 |       |                      |
|                         | 2 R     | 3.92K | R137,R188            |
|                         | BE-0603 |       |                      |
|                         | 2 R     | 7.68K | R138,R189            |
|                         | BE-0603 |       |                      |
|                         | 2 R     | 18.7K | R140,R191            |
|                         | BE-0603 |       |                      |
|                         | 5 R     | 10K   |                      |
| R142,R165,R198,R98,R99  | BE-1206 |       |                      |
|                         | 2 R     | 121   | R177,R182            |
|                         | BE-0603 |       |                      |
|                         | 1 R     | 18.2K | R2                   |
|                         | BE-0603 |       |                      |
|                         | 6 R     | 0     | R236,R237,R238,R239, |
|                         | BE-0603 |       | R240,R241            |
|                         | 2 R     | 182K  | R244,R6              |
|                         | BE-0603 |       |                      |

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|       | PATTERN |       |                 |
| ===== |         |       |                 |
| 1     | R       | 0 OHM | R255            |
|       | BE-0603 |       |                 |
| 3     | R       | 49.9K | R256,R257,R69   |

|   |  |       |                   |
|---|--|-------|-------------------|
|   | BE-0603                                    |       |                   |
| 1 | R<br>BE-0603                               | 3.01K | R30               |
| 1 | R<br>BE-0603                               | 75K   | R31               |
| 2 | R<br>BE-0603                               | 10    | R32,R33           |
| 2 | R<br>BE-0603                               | 8.25K | R34,R41           |
| 1 | R<br>BE-2010                               | 330   | R38               |
| 1 | R<br>BE-0603                               | 100   | R43               |
| 4 | R<br>BE-0603                               | 68.1K | R46,R50,R54,R58   |
| 1 | R<br>BE-0603                               | 30.1K | R71               |
| 1 | RES<br>BE-0603                             | 10K   | R1101             |
| 7 | RES<br>R1102,R1103,R1104,R1105,<br>BE-0603 | 4.75K | R1106,R1107,R1117 |
| 3 | RES<br>BE-0603                             | 1K    | R1123,R1124,R1125 |
| 1 | RVA<br>RV-57212                            | 1K    | VR1               |
| 2 | RVA  | 5K    | VR2,VR3           |

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| ===== |                    |       |                 |
| ====  |                    |       |                 |
|       | RV-57212           |       |                 |
| 1     | S63<br>SW-MSS-6P3T | VAL   | S1              |

|   |                                |              |             |
|---|--------------------------------|--------------|-------------|
| 1 | SDDB                           | S2           | S2          |
| 1 | SDIP                           | S2           | S2          |
| 2 | SDIP                           | VAL          | S3,S4       |
| 2 | TLV320AIC27<br>FLATPACK-48-PIN | TLV320AIC27  | U1105,U1107 |
| 1 | TLVO834-14PIN                  | TLVO834      | U1114       |
| 1 | TMS320VC5402<br>TQFP-144       | TMS320VC5402 | U1106       |

158 TP  
 TP1,TP10,TP100,TP101,  
 PAD050  
 TP102,TP103,TP104,TP105,

11,  
 115,  
 119,  
 22,  
 126,  
 13,  
 133,  
 137,  
 40,  
 144,  
 148,  
 51,  
 155,  
 159,  
 62,  
 P20,

TP106,TP108,TP109,TP  
 TP110,TP111,TP114,TP  
 TP116,TP117,TP118,TP  
 TP12,TP120,TP121,TP1  
 TP123,TP124,TP125,TP  
 TP127,TP128,TP129,TP  
 TP130,TP131,TP132,TP  
 TP134,TP135,TP136,TP  
 TP138,TP139,TP14,TP1  
 TP141,TP142,TP143,TP  
 TP145,TP146,TP147,TP  
 TP149,TP15,TP150,TP1  
 TP152,TP153,TP154,TP  
 TP156,TP157,TP158,TP  
 TP16,TP160,TP161,TP1  
 TP17,TP18,TP19,TP2,T  
 TP21,TP22,TP23,TP24,  
 TP25,TP26,TP27,TP28,

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BTR-800 PARTS LIST

| Quan                      | Type<br>PATTERN      | Value  | Ref Designators  |
|---------------------------|----------------------|--------|--|
| =====                     |                      |        |  |
| ====                      |                      |        |  |
| P32,                      |                      |        | TP29, TP3, TP30, TP31, T   |
| P40,                      |                      |        | TP33, TP34, TP35, TP36,<br>TP37, TP38, TP39, TP4, T                            |
| P52,                      |                      |        | TP41, TP42, TP43, TP44,<br>TP45, TP46, TP47, TP48,<br>TP49, TP5, TP50, TP51, T |
| P61,                      |                      |        | TP53, TP54, TP55, TP57,<br>TP58, TP59, TP6, TP60, T                            |
| TP7,                      |                      |        | TP62, TP63, TP64, TP65,<br>TP66, TP67, TP68, TP69,                             |
| P81,                      |                      |        | TP70, TP71, TP72, TP73,<br>TP74, TP75, TP76, TP77,<br>TP78, TP79, TP8, TP80, T |
| TP9,                      |                      |        | TP82, TP83, TP84, TP85,<br>TP86, TP87, TP88, TP89,                             |
|                           |                      |        | TP90, TP91, TP92, TP93,<br>TP94, TP95, TP96, TP97,<br>TP98, TP99               |
| 4                         | TP                   |        |  |
| TP107, TP112, TP113, TP56 |                      |        |  |
| 1                         | TP<br>TP050          |        | TP163  |
| 2                         | TT<br>XFMR-730094    | VAL    | T1, T2   |
| 1                         | ZSM330-S08<br>BE-S08 | ZSM330 | U1101  |

Total Parts: 877

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BTR-800 PARTS LIST FRONT PANEL

| Quan | Type    | Value    | Ref Designators  |
|------|---------|----------|--|
| 3    | 7404    | 74AC04   | U901,U902,U903   |
| 6    | D       | TMPD4148 | D901,D902,D903,D904,<br>D905,D906  |
| 6    | DLD     | VAL      | DS901,DS902,DS903,DS904,<br>DS905,DS912                                      |
| 6    | LED     | VAL      | DS906,DS907,DS908,DS909,<br>DS910,DS911                                      |
| 6    | NPN-EBC | VAL      | Q901,Q902,Q903,Q904,<br>Q905,Q906  |
| 1    | P       | VAL      | P901   |
| 1    | P       | VAL      | P902   |
| 1    | P       | VAL      | P903   |
| 4    | P       | VAL      | P913,P914,P915,P916  |
| 8    | POT     | VAL      | VR901,VR902,VR903,VR904,<br>VR905,VR906,VR907,VR<br>908                      |
| 12   | RES     | 150      | R901,R902,R903,R904,<br>R905,R907,R909,R911,<br>R913,R915,R917,R918          |
| 6    | RES     | 1500     | R906,R908,R910,R912,<br>R914,R916  |
| 13   | SPB     | VAL      | S901,S902,S903,S904,<br>S905,S906,S907,S908,<br>S909,S910,S911,S912,<br>S913 |
| 53   | TP      |          | TP901,TP902,TP903,TP904,<br>TP905,TP906,TP907,TP<br>908,                     |



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BTR-800 PARTS LIST FRONT PANEL

| Quan | Type | Value | Ref Designators      |
|------|------|-------|----------------------|
| ==== |      |       |                      |
| 912, |      |       | TP909,TP910,TP911,TP |
| 916, |      |       | TP913,TP914,TP915,TP |
| 920, |      |       | TP917,TP918,TP919,TP |
| 924, |      |       | TP921,TP922,TP923,TP |
| 928, |      |       | TP925,TP926,TP927,TP |
| 932, |      |       | TP929,TP930,TP931,TP |
| 936, |      |       | TP933,TP934,TP935,TP |
| 953, |      |       | TP950,TP951,TP952,TP |
| 957, |      |       | TP954,TP955,TP956,TP |
| 961, |      |       | TP958,TP959,TP960,TP |
| 965, |      |       | TP962,TP963,TP964,TP |
|      |      |       | TP966                |

Total Parts: 126

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan | Type   | Value   | Ref Designators  |
|------|--------|---------|--|
| 5    | 13143  | MC13143 | U303,U403,U503,U603,<br>U703   |
| 4    | 604    | NE614D  | U404,U504,U604,U704  |
| 4    | 7025   | TRF2050 | U402,U502,U602,U702  |
| 1    | 74F164 | 74HC164 | U304   |
| 8    | 7DA    | LMV821  | U405,U407,U505,U507,<br>U605,U607,U705,U707  |
| 4    | AR     | VAL     | U1,U2,U3,U4  |
| 87   | C      | .1UF    | C330,C336,C343,C430,<br>C432,C434,C435,C439,<br>C444,C456,C458,C464,<br>C466,C467,C468,C470,<br>C471,C472,C474,C478,<br>C484,C486,C487,C489,<br>C530,C532,C534,C535,<br>C539,C544,C556,C558,<br>C564,C566,C567,C568,<br>C570,C571,C572,C574,<br>C578,C584,C586,C587,<br>C589,C630,C632,C634,<br>C635,C639,C644,C656,<br>C658,C664,C666,C667,<br>C668,C670,C671,C672,<br>C674,C678,C684,C686,<br>C687,C689,C730,C732,<br>C734,C735,C739,C744,<br>C756,C758,C764,C766,<br>C767,C768,C770,C771,<br>C772,C774,C778,C784,<br>C786,C787,C789 |
| 36   | C      | 100PF   | C332,C333,C335,C337,<br>C402,C414,C417,C429,<br>C455,C457,C459,C461,   |

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan  | Type | Value   | Ref Designators   |
|-------|------|---------|---|
| ===== |      |         |   |
| ====  |      |         |   |
|       |      |         | C502,C514,C517,C529,<br>C555,C557,C559,C561,<br>C602,C614,C617,C629,<br>C655,C657,C659,C661,<br>C702,C714,C717,C729,<br>C755,C757,C759,C761 |
| 15    | C    | .001UF  | C334,C344,C346,C436,<br>C451,C460,C536,C551,<br>C560,C636,C651,C660,<br>C736,C751,C760  |
| 2     | C    | 82PF    | C338,C342   |
| 3     | C    | 47PF    | C339,C340,C341  |
| 1     | C    | .0047UF | C345  |
| 4     | C    | 3PF     | C347,C348,C349,C473   |
| 2     | C    | 27PF    | C351,C352   |
| 16    | C    | 39PF    | C401,C413,C416,C428,<br>C501,C513,C516,C528,<br>C601,C613,C616,C628,<br>C701,C713,C716,C728   |
| 24    | C    | 12PF    | C403,C410,C418,C425,<br>C441,C453,C503,C510,<br>C518,C525,C541,C553,<br>C603,C610,C618,C625,<br>C641,C653,C703,C710,<br>C718,C725,C741,C753 |
| 20    | C    | 6.8PF   | C404,C409,C419,C424,<br>C440,C504,C509,C519,<br>C524,C540,C604,C609,<br>C619,C624,C640,C704,<br>C709,C719,C724,C740                         |

BTR-800 PARTS LIST MAIN RECEIVER

| Quan | Type | Value  | Ref Designators   |
|------|------|--------|---|
| ==== |      |        |   |
| 88   | C    | .01UF  | C405,C406,C411,C412,<br>C415,C420,C421,C426,<br>C427,C431,C433,C442,<br>C443,C446,C447,C454,<br>C465,C475,C482,C485,<br>C488,C491,C505,C506,<br>C511,C512,C515,C520,<br>C521,C526,C527,C531,<br>C533,C542,C543,C546,<br>C547,C554,C565,C575,<br>C582,C585,C588,C591,<br>C605,C606,C611,C612,<br>C615,C620,C621,C626,<br>C627,C631,C633,C642,<br>C643,C646,C647,C654,<br>C665,C675,C682,C685,<br>C688,C691,C705,C706,<br>C711,C712,C715,C720,<br>C721,C726,C727,C731,<br>C733,C742,C743,C746,<br>C747,C754,C765,C775,<br>C782,C785,C788,C791 |
| 8    | C    | 1.2PF  | C407,C422,C507,C522,<br>C607,C622,C707,C722   |
| 8    | C    | 820PF  | C408,C423,C508,C523,<br>C608,C623,C708,C723   |
| 4    | C    | 3.3PF  | C437,C537,C637,C737   |
| 4    | C    | 10PF   | C445,C545,C645,C745   |
| 8    | C    | 150PF  | C448,C449,C548,C549,<br>C648,C649,C748,C749   |
| 4    | C    | 2700PF | C452,C552,C652,C752   |
| 4    | C    | 15PF   | C462,C562,C662,C762   |

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| Quan | Type           | Value    | Ref Designators  |
|------|----------------|----------|--|
| 4    | C              | 62PF     | C463,C563,C663,C763  |
| 4    | C              | .0018UF  | C476,C576,C676,C776  |
| 8    | C              | .047UF   | C479,C480,C579,C580,<br>C679,C680,C779,C780  |
| 4    | C              | 2200PF   | C483,C583,C683,C783  |
| 1    | C              | 3.0PF    | C573   |
| 2    | C              | 3.0PF    | C673,C773  |
| 4    | CE             | 10UF     | C438,C538,C638,C738  |
| 4    | CE             | 100UF    | C450,C550,C650,C750  |
| 12   | CE             | 1UF      | C469,C477,C481,C569,<br>C577,C581,C669,C677,<br>C681,C769,C777,C781  |
| 1    | CF             | 100PF    | C326   |
| 1    | COAX-CONNECTOR | VAL      | J301   |
| 40   | DIODE          | MMBV3401 | D401,D402,D403,D404,<br>D405,D406,D407,D408,<br>D409,D410,D501,D502,<br>D503,D504,D505,D506,<br>D507,D508,D509,D510,<br>D601,D602,D603,D604,<br>D605,D606,D607,D608,<br>D609,D610,D701,D702,<br>D703,D704,D705,D706, |

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| Quan | Type | Value | Ref Designators |
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|                          |          |         |   |
|--------------------------|----------|---------|---|
|                          |          |         | D707,D708,D709,D710   |
| 4                        | DIODE    | TMPD914 | D412,D512,D612,D712   |
| 12                       | IFFILTER | 10.7    |   |
| FL401,FL402,FL403,FL501, |          |         | FL502,FL503,FL601,FL  |
| 602,                     |          |         | FL603,FL701,FL702,FL  |
| 703                      |          |         |   |
| 1                        | JC       | VAL     | TP305   |
| 1                        | JH       | J401-1  | J401  |
| 1                        | JH       | J501-1  | J501  |
| 1                        | JH       | J601-1  | J601  |
| 1                        | JH       | J701-1  | J701  |
| 1                        | JH       | P308    | P308  |
| 1                        | JH       | P309    | P309  |
| 1                        | LA       | 2.2UH   | L312  |
| 40                       | LA       | 5.6UH   | L401,L402,L405,L406,<br>L407,L408,L411,L412,<br>L413,L414,L501,L502,<br>L505,L506,L507,L508,<br>L511,L512,L513,L514,<br>L601,L602,L605,L606,<br>L607,L608,L611,L612,<br>L613,L614,L701,L702,<br>L705,L706,L707,L708,<br>L711,L712,L713,L714 |

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| Quan | Type       | Value   | Ref Designators   |
|------|------------|---------|---|
| 4    | LA         | 120NH   | L416,L516,L616,L716   |
| 4    | LA         | 39UH    | L417,L517,L617,L717   |
| 4    | LA         | 1MH     | L419,L519,L619,L719   |
| 2    | LVA        | 120NH   | L309,L311   |
| 1    | LVA        | 58NH    | L310  |
| 16   | LVA        | 130NH   | L403,L404,L409,L410,<br>L503,L504,L509,L510,<br>L603,L604,L609,L610,<br>L703,L704,L709,L710 |
| 4    | LVA        | 159NH   | L415,L515,L615,L715   |
| 4    | LVC        | 4.7UH   | L418,L518,L618,L718   |
| 4    | MMIC-MAV11 | MAV-11  | U401,U501,U601,U701   |
| 1    | MOLEX-XXW  | J302    | J302  |
| 1    | MOLEX4H    | VAL     | J311  |
| 4    | NC7SZ66    | NC7SZ66 | U406,U506,U606,U706   |
| 8    | NPN-BCEE   | BFG540  | Q403,Q404,Q503,Q504,<br>Q603,Q604,Q703,Q704   |
| 1    | NPN-EBC    | NE46134 | Q304  |

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan | Type | Value | Ref Designators |
|------|------|-------|-----------------|
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|    |         |          |   |
|----|---------|----------|---|
| 4  | NPN-EBC | FM5T5179 | Q405,Q505,Q605,Q705   |
| 4  | NPN-EBC | MMBT3904 | Q406,Q506,Q606,Q706   |
| 1  | P       | J303     | J303  |
| 1  | P       | J304     | J304  |
| 1  | P       | J305     | J305  |
| 1  | P       | J306     | J306  |
| 1  | P       | VAL      | J310  |
| 1  | P       | J402-1   | J402  |
| 1  | P       | J502-1   | J502  |
| 1  | P       | J602-1   | J602  |
| 1  | P       | J702-1   | J702  |
| 1  | P       | P307     | P307  |
| 1  | P       | P312     | P312  |
| 12 | PNP-EBC | MMBT3906 | Q401,Q402,Q407,Q501,<br>Q502,Q507,Q601,Q602,<br>Q607,Q701,Q702,Q707 |
| 4  | POT     | 10K      |   |

VR401,VR501,VR601,VR701

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan  | Type | Value | Ref Designators |
|-------|------|-------|-----------------|
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|----|-------|----------|---|
| 4  | QNEBC | FMMT5179 | Q408,Q508,Q608,Q708   |
| 4  | R     | 39       | R463,R563,R663,R763   |
| 8  | R     | 2.2K     | R464,R466,R564,R566,<br>R664,R666,R764,R766   |
| 4  | R     | 470      | R465,R565,R665,R765   |
| 4  | R     | 180K     | R467,R567,R667,R767   |
| 10 | RES   | 51       | R314,R315,R432,R433,<br>R532,R533,R632,R633,<br>R732,R733   |
| 18 | RES   | 1K       | R316,R319,R435,R442,<br>R452,R456,R535,R542,<br>R552,R556,R635,R642,<br>R652,R656,R735,R742,<br>R752,R756 |
| 5  | RES   | 560      | R317,R434,R534,R634,<br>R734  |
| 2  | RES   | 820      | R318,R321   |
| 1  | RES   | 390      | R320  |
| 1  | RES   | 2.2      | R322  |
| 1  | RES   | 27       | R323  |
| 3  | RES   | 274      | R324,R325,R326  |

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan  | Type | Value | Ref Designators |
|-------|------|-------|-----------------|
| ===== |      |       |                 |
| ===== |      |       |                 |

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|----|-----|------|---|
| 48 | RES | 470  | R401,R402,R407,R408,<br>R412,R413,R414,R415,<br>R421,R422,R428,R439,<br>R501,R502,R507,R508,<br>R512,R513,R514,R515,<br>R521,R522,R528,R539,<br>R601,R602,R607,R608,<br>R612,R613,R614,R615,<br>R621,R622,R628,R639,<br>R701,R702,R707,R708,<br>R712,R713,R714,R715,<br>R721,R722,R728,R739 |
| 20 | RES | 2.2K | R403,R404,R438,R440,<br>R454,R503,R504,R538,<br>R540,R554,R603,R604,<br>R638,R640,R654,R703,<br>R704,R738,R740,R754   |
| 12 | RES | 47K  | R405,R406,R462,R505,<br>R506,R562,R605,R606,<br>R662,R705,R706,R762   |
| 8  | RES | 150  | R409,R411,R509,R511,<br>R609,R611,R709,R711   |
| 8  | RES | 39   | R410,R441,R510,R541,<br>R610,R641,R710,R741   |
| 8  | RES | 43   | R416,R417,R516,R517,<br>R616,R617,R716,R717   |
| 4  | RES | 18K  | R418,R518,R618,R718   |
| 4  | RES | 43K  | R419,R519,R619,R719   |
| 4  | RES | 110  | R420,R520,R620,R720   |
| 8  | RES | 1.5K | R423,R430,R523,R530,<br>R623,R630,R723,R730   |

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan | Type | Value | Ref Designators     |
|------|------|-------|---------------------|
| ==== |      |       |                     |
| 4    | RES  | 680   | R424,R524,R624,R724 |

|    |     |      |  |
|----|-----|------|--|
| 4  | RES | 270  | R425 ,R525 ,R625 ,R725   |
| 4  | RES | 82K  | R426 ,R526 ,R626 ,R726   |
| 4  | RES | 2.7K | R427 ,R527 ,R627 ,R727   |
| 4  | RES | 51K  | R429 ,R529 ,R629 ,R729   |
| 4  | RES | 510  | R431 ,R531 ,R631 ,R731   |
| 4  | RES | 180K | R437 ,R537 ,R637 ,R737   |
| 8  | RES | 430  | R443 ,R444 ,R543 ,R544 ,<br>R643 ,R644 ,R743 ,R744                             |
| 4  | RES | 8.2K | R445 ,R545 ,R645 ,R745   |
| 4  | RES | 39K  | R446 ,R546 ,R646 ,R746   |
| 4  | RES | 5.6K | R447 ,R547 ,R647 ,R747   |
| 4  | RES | 15K  | R448 ,R548 ,R648 ,R748   |
| 12 | RES | 220K | R449 ,R450 ,R451 ,R549 ,<br>R550 ,R551 ,R649 ,R650 ,<br>R651 ,R749 ,R750 ,R751 |
| 8  | RES | 100K | R453 ,R455 ,R553 ,R555 ,<br>R653 ,R655 ,R753 ,R755                             |

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BTR-800 PARTS LIST MAIN RECEIVER

| Quan  | Type | Value | Ref Designators        |
|-------|------|-------|------------------------|
| ===== |      |       |                        |
| 4     | RES  | 68    | R457 ,R557 ,R657 ,R757 |
| 4     | RES  | 330K  | R458 ,R558 ,R658 ,R758 |

|    |  |             |  |
|----|--|-------------|--|
| 4  | RES  | 10K         | R459,R559,R659,R759  |
| 4  | RES  | 68K         | R460,R560,R660,R760  |
| 4  | RES  | 1M          | R461,R561,R661,R761  |
| 4  | RES03  | 820         | R436,R536,R636,R736  |
| 4  | RVA<br>VR402,VR502,VR602,VR702                               | 10K         |  |
| 3  | TB5F   | 458DS-1014  | T302,T303,T304   |
| 1  | TDBM   | 458PT-1113  | T301   |
| 4  | TDBMV  | VAL         | T401,T501,T601,T701  |
| 16 | TESTPOINT<br>TP401,TP402,TP403,TP404,<br>504,<br>604,<br>704 | VAL         | TP501,TP502,TP503,TP<br>TP601,TP602,TP603,TP<br>TP701,TP702,TP703,TP |
| 4  | VARICAP  | SMV1145-079 | D411,D511,D611,D711  |

Total Parts: 923

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BTR-800 PARTS LIST COMBINER

| Quan | Type   | Value      | Ref Designators   |
|------|--------|------------|-------------------|
| 2    | 7185   | MHW7182    | U1001,U1002       |
| 1    | C      | .01UF      | C1001             |
| 2    | C      | .001UF     | C1002,C1004       |
| 1    | C      | 8.2PF      | C1006             |
| 1    | C      | 10PF       | C1007             |
| 2    | CE     | 1UF        | C1003,C1005       |
| 1    | CV     | 2-6PF      | VC1001            |
| 1    | D      | DL4004     | D1001             |
| 2    | E      |            | E1001,E1002       |
| 2    | FL-EXC | EXCCET470U | FL1001,FL1002     |
| 3    | JC     | VAL        | J1001,J1002,J1003 |
| 1    | LA     | 12NH       | L1001             |
| 2    | R      | 63.4       | R1001,R1003       |
| 2    | R      | 162        | R1002,R1004       |
| 1    | R      | 270        | R1005             |

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BTR-800 PARTS LIST COMBINER

| Quan | Type | Value | Ref Designators |
|------|------|-------|-----------------|
| 1    | TCQT | VAL   | T1001           |

Total Parts: 25

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BTR-800 PARTS LIST TRANSMIT BOARD

| Quan | Type | Value     | Ref Designators   |
|------|------|-----------|---|
| 2    | 7025 | TRF2050   | U802,U803   |
| 1    | 78L  | TC55RP500 | U801  |
| 28   | C    | .001UF    | C803,C804,C808,C810,<br>C814,C817,C818,C819,<br>C821,C823,C825,C827,<br>C828,C830,C837,C839,<br>C842,C844,C848,C851,<br>C852,C853,C855,C857,<br>C859,C861,C862,C864 |
| 8    | C    | .1UF      | C805,C806,C807,C838,<br>C840,C841,C869,C870   |
| 2    | C    | 10PF      | C811,C845   |
| 4    | C    | 5.6PF     | C813,C833,C847,C867   |
| 2    | C    | 3.9PF     | C815,C849   |
| 2    | C    | 12PF      | C816,C850   |
| 2    | C    | 1.5PF     | C820,C854   |
| 6    | C    | 100PF     | C822,C829,C834,C856,<br>C863,C868   |
| 6    | C    | 3.3PF     | C824,C826,C832,C858,<br>C860,C866   |
| 2    | C    | 1PF       | C831,C865   |
| 4    | CE   | 1UF       | C801,C802,C835,C836   |

Bill of Materials  
770656PC.S01

BTR-800 PARTS LIST TRANSMIT BOARD

| Quan                    | Type   | Value    | Ref Designators   |
|-------------------------|--------|----------|---|
| 2                       | CE     | 4.7UF    | C809,C843   |
| 4                       | CE     | 10UF     | C812,C846,C871,C872   |
| 2                       | DD2    | BAV99    | D801,D802   |
| 4                       | FB     | VAL      |   |
| FB801,FB802,FB803,FB804 |        |          |   |
| 2                       | JC     | VAL      | J803,J804   |
| 12                      | LA     | .27UH    | L801,L802,L803,L804,<br>L807,L808,L811,L812,<br>L813,L814,L817,L818 |
| 2                       | LA     | 8NH      | L805,L815   |
| 2                       | LA     | 22NH     | L806,L816   |
| 2                       | LA     | 27NH     | L809,L819   |
| 2                       | LA     | 12NH     | L810,L820   |
| 1                       | P      | J801-1   | J801  |
| 1                       | P      | J802-1   | J802  |
| 2                       | QN2212 | MMUN2212 | Q806,Q815   |
| 8                       | QNDE   | BFG540X  | Q802,Q803,Q807,Q809,<br>Q811,Q812,Q816,Q818                         |
| 2                       | QP2112 | MMUN2112 | Q805,Q814   |



## BTR-800 PARTS LIST TRANSMIT BOARD

| Quan | Type  | Value    | Ref Designators   |
|------|-------|----------|---|
| 4    | QPEBC | MMBT3906 | Q804,Q808,Q813,Q817   |
| 2    | QPT   | VP0610   | Q801,Q810   |
| 2    | R     | 0        | R801,R824   |
| 4    | R     | 22.1K    | R802,R811,R825,R833   |
| 2    | R     | 221K     | R803,R826   |
| 6    | R     | 10K      | R804,R818,R819,R827,<br>R840,R841   |
| 18   | R     | 475      | R805,R828,R851,R852,<br>R853,R854,R855,R856,<br>R857,R858,R859,R860,<br>R861,R862,R863,R864,<br>R865,R866 |
| 4    | R     | 4.75K    | R806,R822,R829,R844   |
| 2    | R     | 100K     | R807,R816   |
| 4    | R     | 47.5     | R808,R810,R830,R832   |
| 2    | R     | 221      | R809,R831   |
| 2    | R     | 100      | R812,R834   |
| 2    | R     | 22.1     | R813,R835   |

BTR-800 PARTS LIST TRANSMIT BOARD

| Quan                     | Type   | Value | Ref Designators      |
|--------------------------|--------|-------|----------------------|
| 2                        | R      | 6.81K | R814,R836            |
| 2                        | R      | 267   | R815,R837            |
| 4                        | R      | 10    | R817,R823,R839,R845  |
| 2                        | R      | 56.2  | R820,R842            |
| 2                        | R      | 180   | R821,R843            |
| 4                        | RS     | 100   | R838,R847,R848,R850  |
| 2                        | RS     | 68.1  | R846,R849            |
| 2                        | RVA    | 100   | VR801,VR802          |
| 22                       | TP     |       |                      |
| TP801,TP802,TP803,TP804, |        |       | TP805,TP806,TP807,TP |
| 808,                     |        |       | TP809,TP810,TP811,TP |
| 812,                     |        |       | TP813,TP814,TP815,TP |
| 816,                     |        |       | TP817,TP818,TP819,TP |
| 820,                     |        |       | TP821,TP822          |
| 2                        | VCO500 | VAL   | HY801,HY802          |

Total Parts: 215