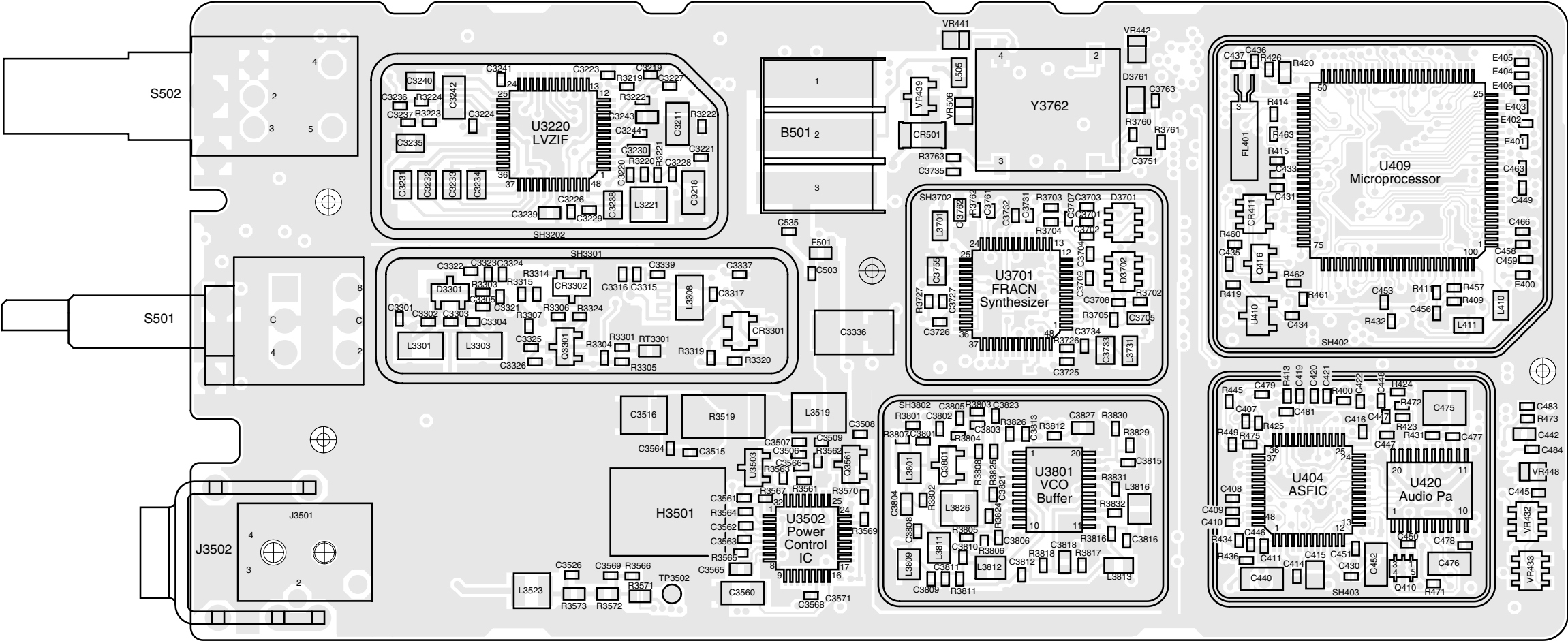
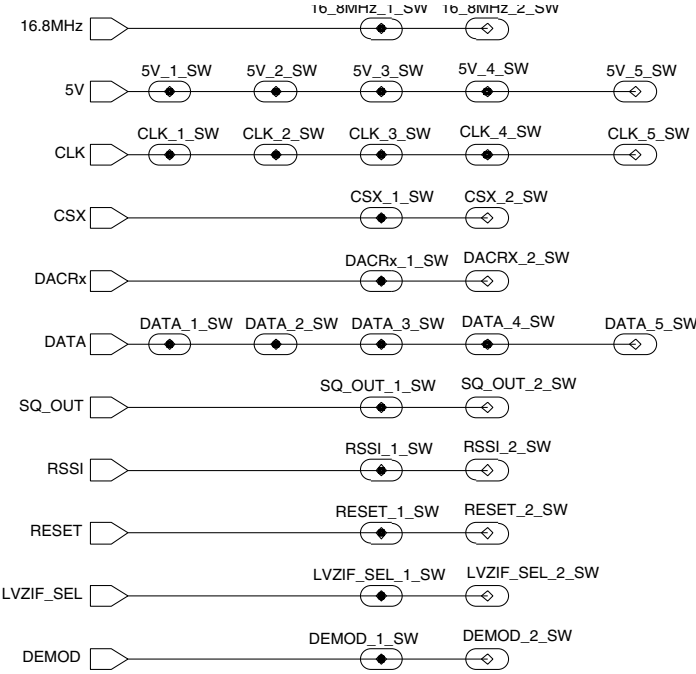
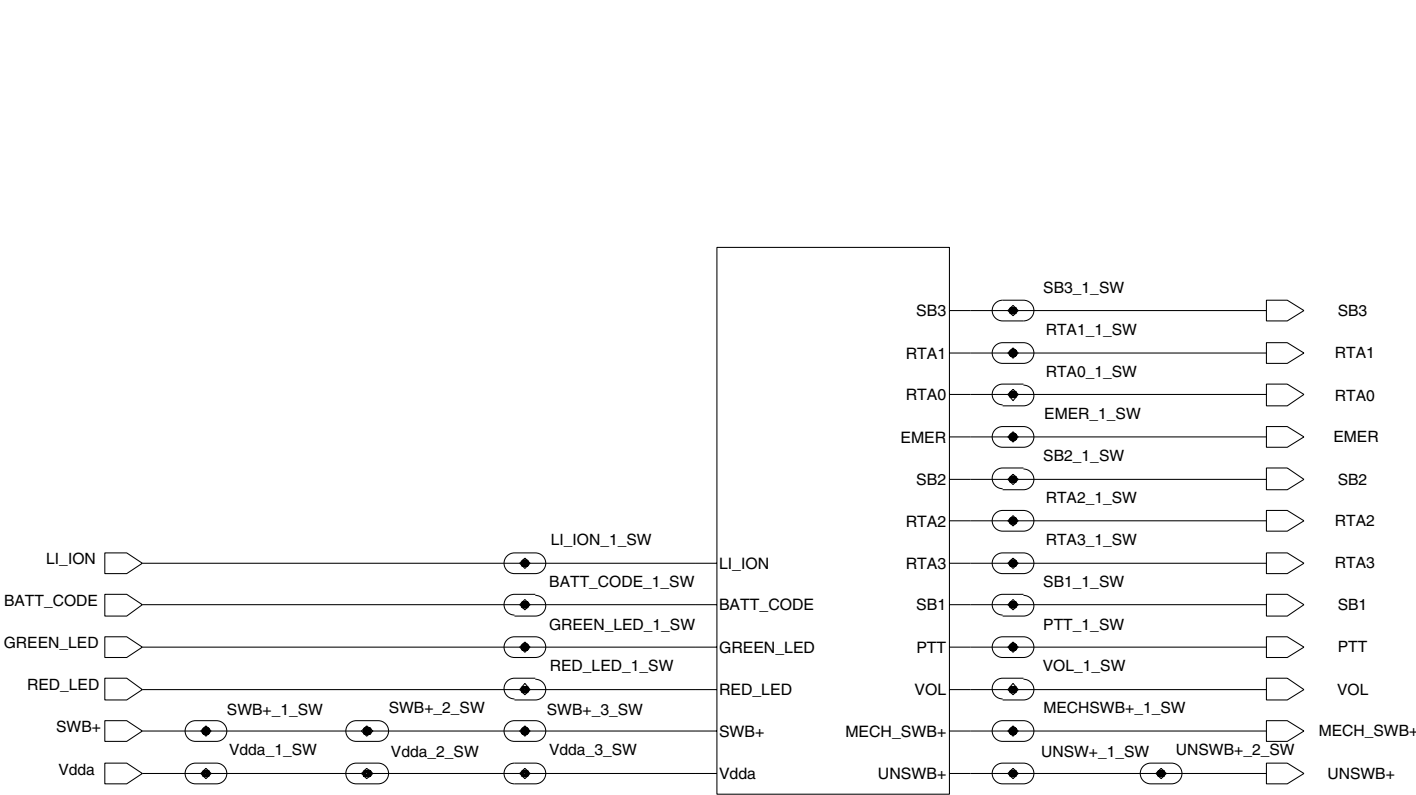


### VHF (136-174 MHz) Main Board Top Side

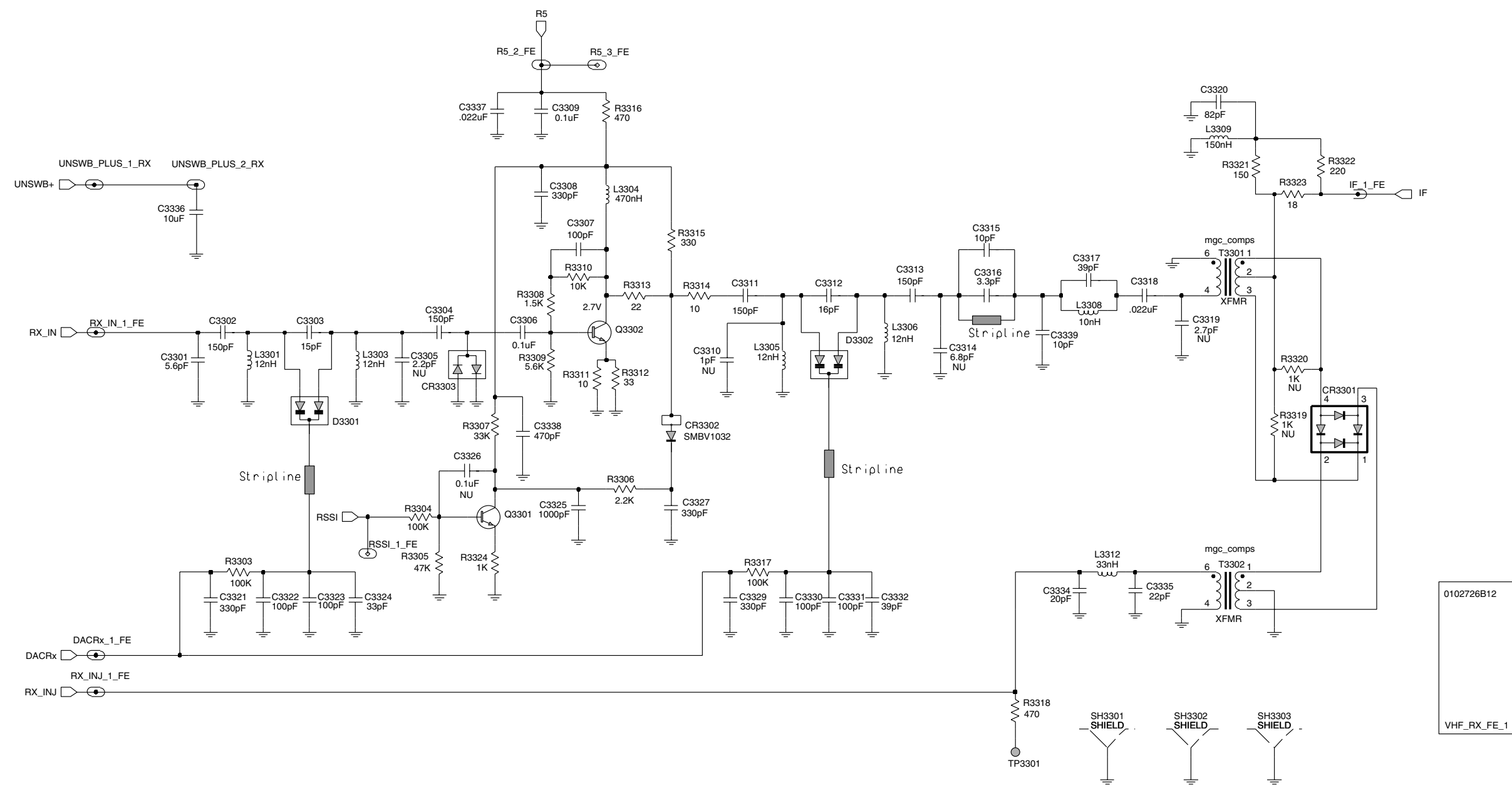


ZWG01300073-C

VHF (136-174 MHz) Main Board Bottom Side

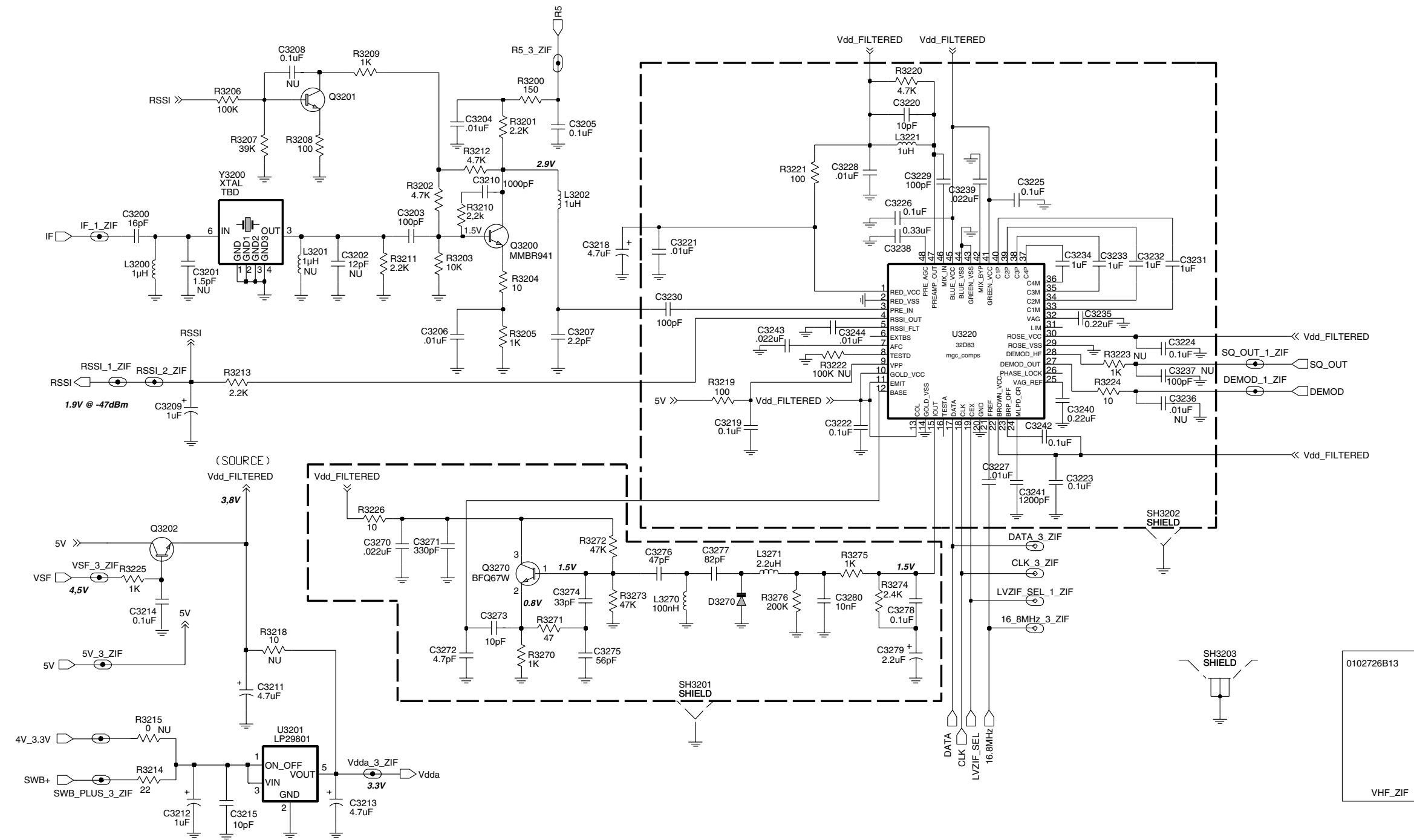


ZWG0130024-A



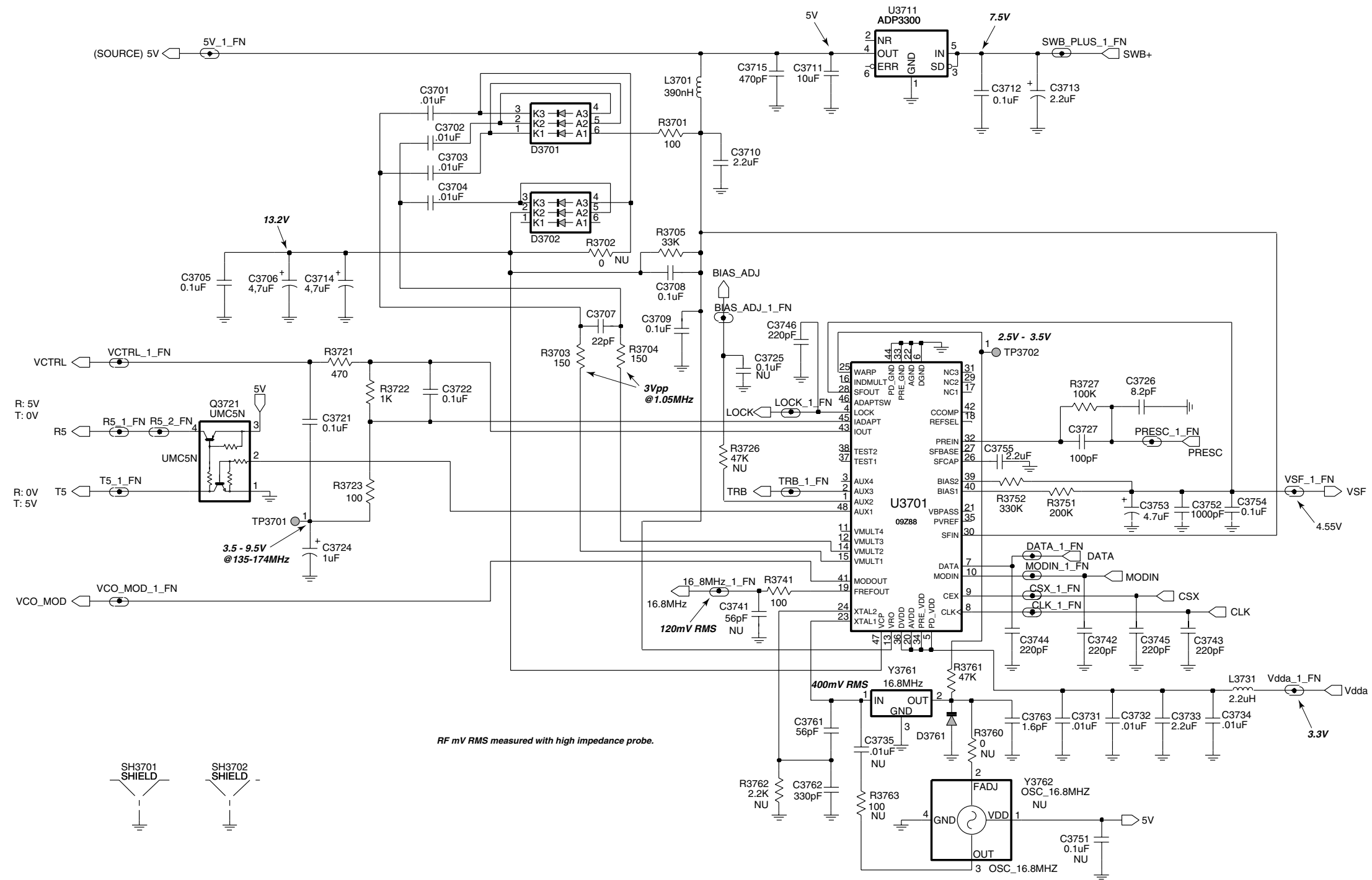
ZWG0130023-A

VHF (136-174 MHz) Receiver Front End



ZWG0130025-B

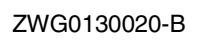
**VHF (136-174 MHz) Receiver Back End**



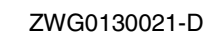
VHF (136-174 MHz) Synthesizer

ZWG0130022-C





### VHF (136-174 MHz) Voltage Controlled Oscillator





3.0 VHF PCB 8486062B12 Parts List

| Circuit Ref | Motorola Part No | Description                                    |
|-------------|------------------|------------------------------------------------|
| B501        | 0986237A02       | CONN, CONTACT BATT                             |
| B503        | 3980502Z01       | CONTACT, BACKUP B+<br>only GP360, GP380, GP680 |
| B504        | 3980501Z01       | CONTACT, BACKUP B-<br>only GP360, GP380, GP680 |
| C3200       | 2113743N31       | 16.0 PF 5% COG                                 |
| C3203       | 2113743N50       | 100 PF 5% COG                                  |
| C3204       | 2113743L41       | 10000 PF 10%                                   |
| C3205       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3206       | 2113743L41       | 10000 PF 10%                                   |
| C3207       | 2113743N10       | 2.2 PF +/-25PF COG                             |
| C3209       | 2311049A07       | TANT 10% 1.0UF                                 |
| C3210       | 2113743L17       | 1000 PF 10%                                    |
| C3211       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3212       | 2311049A07       | TANT 10% 1.0UF                                 |
| C3213       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3214       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3215       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3218       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3219       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3220       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3221       | 2113743L41       | 10000 PF 10%                                   |
| C3222       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3223       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3224       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3225       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3226       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3227       | 2113743L41       | 10000 PF 10%                                   |
| C3228       | 2113743L41       | 10000 PF 10%                                   |
| C3229       | 2113743N50       | 100 PF 5% COG                                  |
| C3230       | 2113740F51       | REEL CL1 +/-30 100                             |
| C3231       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3232       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3233       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3234       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3235       | 2113743A23       | .220UF 10%                                     |
| C3238       | 2113743A24       | .330 UF 10% 16V                                |
| C3239       | 2113743E07       | CER CHIP .022UF                                |
| C3240       | 2113743A23       | .220UF 10%                                     |
| C3241       | 2113743L19       | 1200 PF 10%                                    |
| C3242       | 2109720D14       | CER CHIP LOW DIST 0.1UF                        |
| C3243       | 2113743E07       | CER CHIP .022UF                                |
| C3244       | 2113743L41       | 10000 PF 10%                                   |
| C3270       | 2113743E07       | CER CHIP .022UF                                |
| C3271       | 2113743L05       | 330 PF 10%                                     |
| C3272       | 2113743N18       | 4.7 PF +/-25PF COG                             |
| C3273       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3274       | 2113743N38       | 33.0 PF 5% COG                                 |
| C3275       | 2113743N44       | 56.0 PF 5% COG                                 |
| C3276       | 2113743N42       | 47.0 PF 5% COG                                 |
| C3277       | 2113743N48       | 82.0 PF 5% COG                                 |
| C3278       | 2113743E07       | CER CHIP .022UF                                |
| C3279       | 2311049A40       | GLOBAL TANT 10% 2.2 UF                         |

| Circuit Ref | Motorola Part No | Description            |
|-------------|------------------|------------------------|
| C3280       | 2113743L41       | 10000 PF 10%           |
| C3301       | 2113743N20       | 5.6 PF +/-5PF COG      |
| C3302       | 2113743N54       | 150 PF 5% COG          |
| C3303       | 2113743N30       | 15.0PF 5% COG          |
| C3304       | 2113743N54       | 150 PF 5% COG          |
| C3306       | 2113928N01       | CER CHIP 0.1UF 10% 6.3 |
| C3307       | 2113743N50       | 100 PF 5% COG          |
| C3308       | 2113743L05       | 330 PF 10%             |
| C3309       | 2113928N01       | CER CHIP 0.1UF 10% 6.3 |
| C3311       | 2113743N54       | 150 PF 5% COG          |
| C3312       | 2113743N31       | 16.0 PF 5% COG         |
| C3313       | 2113743N54       | 150 PF 5% COG          |
| C3315       | 2113743N26       | 10.0 PF 5% COG         |
| C3316       | 2113743N14       | 3.3 PF +/-25PF COG     |
| C3317       | 2113743N40       | 39.0 PF 5% COG         |
| C3318       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3320       | 2113743N48       | 82.0 PF 5% COG         |
| C3321       | 2113743L05       | 330 PF 10%             |
| C3322       | 2113743N50       | 100 PF 5% COG          |
| C3323       | 2113743N50       | 100 PF 5% COG          |
| C3324       | 2113743N38       | 33.0 PF 5% COG         |
| C3325       | 2113743L17       | 1000 PF 10%            |
| C3327       | 2113743L05       | 330 PF 10%             |
| C3329       | 2113743L05       | 330 PF 10%             |
| C3330       | 2113743N50       | 100 PF 5% COG          |
| C3331       | 2113743N50       | 100 PF 5% COG          |
| C3332       | 2113743N40       | 39.0 PF 5% COG         |
| C3334       | 2113743N33       | 20.0 PF 5% COG         |
| C3335       | 2113743N34       | 22.0 PF 5% COG         |
| C3336       | 2311049A18       | TANT 10% 10UF          |
| C3337       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3338       | 2113743L09       | 470 PF 10%             |
| C3339       | 2113743N26       | 10.0 PF 5% COG         |
| C3501       | 2113743L05       | 330 PF 10%             |
| C3502       | 2113743N38       | 33.0 PF 5% COG         |
| C3503       | 2113743N38       | 33.0 PF 5% COG         |
| C3504       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3505       | 2113743N38       | 33.0 PF 5% COG         |
| C3508       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3509       | 2113743L05       | 330 PF 10%             |
| C3512       | 2113740F43       | REEL CL1 +/-30 47      |
| C3513       | 2113740F38       | REEL CL1 +/-30 30      |
| C3514       | 2113740F67       | CL1 +/-30 470 5%       |
| C3515       | 2113743L29       | 3300PF 10%             |
| C3516       | 2311049A08       | KEMET CAPS             |
| C3517       | 2113740F51       | REEL CL1 +/-30 100     |
| C3518       | 2113740F63       | CL1 +/-30 330 5%       |
| C3519       | 2113740F35       | REEL CL1 +/-30 22      |
| C3521       | 2111078B51       | RF 220 5 NPO 100V      |
| C3523       | 2111078B44       | RF 120 5 NPO 100V      |
| C3524       | 2113740F33       | REEL CL1 +/-30 18      |
| C3525       | 2113740F27       | REEL CL1 +/-30 10      |
| C3526       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3528       | 2113740F26       | REEL CL1 +/-30 9.1     |
| C3531       | 2113740F34       | REEL CL1 +/-30 20      |
| C3532       | 2113740F47       | REEL CL1 +/-30 68      |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| C3533       | 2113740F24       | REEL CL1 +/-30 7.5         |
| C3534       | 2113740F19       | CHIP CAP, CER 4.7PF        |
| C3535       | 2113740F37       | REEL CL1 +/-30 27          |
| C3536       | 2113740F31       | REEL CL1 +/-30 15          |
| C3537       | 2113740F33       | REEL CL1 +/-30 18          |
| C3539       | 2113740F21       | REEL CL1 +/-30 5.6         |
| C3541       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3542       | 2113743L05       | 330 PF 10%                 |
| C3543       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3544       | 2113743L05       | 330 PF 10%                 |
| C3546       | 2113743L05       | 330 PF 10%                 |
| C3547       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3550       | 2113743N23       | 7.5 PF +/-5PF COG          |
| C3551       | 2113743N46       | 68.0 PF 5% COG             |
| C3552       | 2113743N44       | 56.0 PF 5% COG             |
| C3560       | 2311049A07       | TANT 10% 1.0UF             |
| C3561       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3562       | 2113743L29       | 3300PF 10%                 |
| C3563       | 2113743L29       | 3300PF 10%                 |
| C3564       | 2113743L01       | 220 PF 10%                 |
| C3565       | 2113743E07       | CER CHIP .022UF            |
| C3566       | 2113743N50       | 100 PF 5% COG              |
| C3567       | 2113743L05       | 330 PF 10%                 |
| C3568       | 2113743L29       | 3300PF 10%                 |
| C3569       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3570       | 2113743L05       | 330 PF 10%                 |
| C3571       | 2113743L09       | 470 PF 10%                 |
| C3701       | 2113743L41       | 10000 PF 10%               |
| C3702       | 2113743L41       | 10000 PF 10%               |
| C3703       | 2113743L41       | 10000 PF 10%               |
| C3704       | 2113743L41       | 10000 PF 10%               |
| C3705       | 2113743E20       | CHIP. 10 UF 10%            |
| C3706       | 2311049J11       | CAPACITOR TANT 10% 4.7UF   |
| C3707       | 2113743N34       | 22.0 PF 5% COG             |
| C3708       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3709       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3710       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| C3711       | 2311049A69       | TAN CHIP 10.0 UF 20% 6.3V  |
| C3712       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3713       | 2311049A09       | TANT 2.2 UF 10%            |
| C3714       | 2311049J11       | CAPACITOR TANT 10% 4.7UF   |
| C3715       | 2113743L09       | 470 PF 10%                 |
| C3721       | 2113743E20       | CHIP. 10 UF 10%            |
| C3722       | 2113743E20       | CHIP. 10 UF 10%            |
| C3724       | 2311049A08       | KEMET CAPS                 |
| C3726       | 2113743N24       | 8.2 PF + -.5PF COG         |
| C3727       | 2113743N50       | 100 PF 5% COG              |
| C3731       | 2113743L41       | 10000 PF 10%               |
| C3732       | 2113743L41       | 10000 PF 10%               |
| C3733       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| C3734       | 2113743L41       | 10000 PF 10%               |
| C3742       | 2113743L01       | 220 PF 10%                 |
| C3743       | 2113743L01       | 220 PF 10%                 |
| C3744       | 2113743L01       | 220 PF 10%                 |
| C3745       | 2113743L01       | 220 PF 10%                 |
| C3746       | 2113743L01       | 220 PF 10%                 |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| C3752       | 2113743L17       | 1000 PF 10%                |
| C3753       | 2311049A56       | TAN CHIP A/P 4.7 20 10     |
| C3754       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3755       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| * C3761     | 2113743N44       | 56.0 PF 5% COG             |
| * C3762     | 2113740F63       | CL1 +/-30 330 5%           |
| * C3763     | 2113743N08       | 1.6 PF +/-25PF COG         |
| C3801       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3803       | 2113743L17       | 1000 PF 10%                |
| C3804       | 2113743E20       | CHIP. 10 UF 10%            |
| C3805       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3806       | 2113743N50       | 100 PF 5% COG              |
| C3808       | 2113743N30       | 15.0PF 5% COG              |
| C3809       | 2113743N36       | 27.0 PF 5% COG             |
| C3811       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3812       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3813       | 2113743L41       | 10000 PF 10%               |
| C3815       | 2113743L17       | 1000 PF 10%                |
| C3816       | 2113743N22       | 6.8 PF +/-5PF COG          |
| C3818       | 2113743E07       | CER CHIP .022UF            |
| C3821       | 2113743L41       | 10000 PF 10%               |
| C3822       | 2113743L17       | 1000 PF 10%                |
| C3823       | 2113743L41       | 10000 PF 10%               |
| C3824       | 2113743N44       | 56.0 PF 5% COG             |
| C3825       | 2113743N30       | 15.0PF 5% COG              |
| C3826       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3827       | 2113743E07       | CER CHIP .022UF            |
| C3828       | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C3829       | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C3830       | 2113743N46       | 68.0 PF 5% COG             |
| C3832       | 2113743L17       | 1000 PF 10%                |
| C3833       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3834       | 2113743N44       | 56.0 PF 5% COG             |
| C3835       | 2113743N22       | 6.8 PF +/-5PF COG          |
| C3836       | 2113743N30       | 15.0PF 5% COG              |
| C3842       | 2113743L17       | 1000 PF 10%                |
| C400        | 2113743L41       | 10000 PF 10%               |
| C401        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C402        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C403        | 2113928D08       | CERAMIC CHIP 10.0UF        |
| C407        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C408        | 2113743N50       | 100 PF 5% COG              |
| C409        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C410        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C411        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C414        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C415        | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C416        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C419        | 2113743L41       | 10000 PF 10%               |
| C420        | 2113743L41       | 10000 PF 10%               |
| C421        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C422        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C423        | 2113743N50       | 100 PF 5% COG              |
| C424        | 2311049A59       | TANT CHIP A/P 10UF 10% 6V  |
| C425        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C426        | 2113743N50       | 100 PF 5% COG              |

| Circuit Ref | Motorola Part No | Description                                       |
|-------------|------------------|---------------------------------------------------|
| C427        | 2113743N50       | 100 PF 5% COG                                     |
| C428        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C429        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C430        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C431        | 2113743N50       | 100 PF 5% COG                                     |
| C433        | 2113743L41       | 10000 PF 10%                                      |
| C434        | 2113743M24       | 100000 PF +80-20% Y5V<br>only GP360, GP380, GP680 |
| C435        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C436        | 2113743N34       | 22.0 PF 5% COG<br>only GP360, GP380, GP680        |
| C437        | 2113743N34       | 22.0 PF 5% COG<br>only GP360, GP380, GP680        |
| C440        | 2113743G26       | 4.7UF 16V + 80-20%                                |
| C441        | 2113743L09       | 470 PF 10%                                        |
| C442        | 2113743E20       | CHIP. 10 UF 10%                                   |
| C443        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C444        | 2113743N50       | 100 PF 5% COG                                     |
| C445        | 2113743L09       | 470 PF 10%                                        |
| C446        | 2113743L09       | 470 PF 10%                                        |
| C447        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C448        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C449        | 2113743N50       | 100 PF 5% COG                                     |
| C451        | 2113743M08       | 22000PF +80-20% Y5V                               |
| C452        | 2113743G26       | 4.7UF 16V + 80-20%                                |
| C453        | 2113743N50       | 100 PF 5% COG                                     |
| C456        | 2113743N50       | 100 PF 5% COG                                     |
| C458        | 2113743N50       | 100 PF 5% COG                                     |
| C459        | 2113743N50       | 100 PF 5% COG                                     |
| C463        | 2113743N50       | 100 PF 5% COG                                     |
| C466        | 2113743N50       | 100 PF 5% COG                                     |
| C467        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C471        | 2113743L09       | 470 PF 10%                                        |
| C472        | 2113743L09       | 470 PF 10%                                        |
| C473        | 2113743L09       | 470 PF 10%                                        |
| C474        | 2113743L41       | 10000 PF 10%                                      |
| C475        | 2113743H14       | 10.0 UF 16V +80-20%                               |
| C476        | 2113928D08       | CERAMIC CHIP 10.0UF                               |
| C477        | 2113743L17       | 1000 PF 10%                                       |
| C478        | 2113743L17       | 1000 PF 10%                                       |
| C479        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C480        | 2113928D08       | CERAMIC CHIP 10.0UF                               |
| C481        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C482        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C483        | 2113743L09       | 470 PF 10%                                        |
| C484        | 2113743L09       | 470 PF 10%                                        |
| C490        | 2113743L09       | 470 PF 10%                                        |
| C491        | 2113743L09       | 470 PF 10%                                        |
| C492        | 2113743L09       | 470 PF 10%                                        |
| C493        | 2113743N50       | 100 PF 5% COG                                     |
| C494        | 2113743N50       | 100 PF 5% COG                                     |
| C495        | 2113743L09       | 470 PF 10%                                        |
| C496        | 2113743L09       | 470 PF 10%                                        |
| C497        | 2113743L09       | 470 PF 10%                                        |
| C502        | 2311049A05       | TANT 10% 0.47UF                                   |
| C503        | 2113743N50       | 100 PF 5% COG                                     |

| Circuit Ref | Motorola Part No | Description                                |
|-------------|------------------|--------------------------------------------|
| C505        | 2113743N50       | 100 PF 5% COG                              |
| C511        | 2113743N50       | 100 PF 5% COG                              |
| C512        | 2113743N50       | 100 PF 5% COG                              |
| C513        | 2113743N50       | 100 PF 5% COG                              |
| C514        | 2113743N50       | 100 PF 5% COG                              |
| C520        | 2113743L41       | 10000 PF 10%                               |
| C521        | 2113743L41       | 10000 PF 10%                               |
| C522        | 2113743L41       | 10000 PF 10%                               |
| C523        | 2113743L41       | 10000 PF 10%                               |
| C535        | 2113743L17       | 1000 PF 10%                                |
| CR3301      | 4802245J42       | RING QUAD SOT-143 PKG                      |
| CR3302      | 4805129M96       | DIODE SMBV1032                             |
| CR3303      | 4880154K03       | SOT MMBD353 DUAL SCHKY                     |
| CR411       | 4802245J47       | SCHOTTKY BARRIER(RB471E)                   |
| CR412       | 4802245J62       | SCHOTTKY BARRIER(RB471E)                   |
| CR413       | 4802245J62       | SCHOTTKY BARRIER(RB471E)                   |
| CR440       | 4813833C02       | DUAL 70V '5B' COMM CATH                    |
| CR501       | 4880107R01       | RECTIFIER                                  |
| CR503       | 4805729G49       | LED RED/YEL                                |
| D3270       | 4862824C01       | VARACTOR                                   |
| D3301       | 4802081B58       | DUAL SILCON (VARICAP)                      |
| D3302       | 4802081B58       | DUAL SILCON (VARICAP)                      |
| D3521       | 4880973Z02       | PIN DIODE                                  |
| D3551       | 4880973Z02       | PIN DIODE                                  |
| D3701       | 4802233J09       | TRIPLE SOT25-RH                            |
| D3702       | 4802233J09       | TRIPLE SOT25-RH                            |
| * D3761     | 4862824C03       | VARACTOR                                   |
| D3821       | 4805649Q13       | VCTR ISV 228                               |
| D3831       | 4805649Q13       | VCTR ISV 228                               |
| D3832       | 4862824C01       | VARACTOR                                   |
| E400        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E401        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E402        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E403        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E404        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E405        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E406        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E407        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E408        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| E409        | 2480640Z01       | C/IND BK1005HM471 BEAD                     |
| F501        | 6580542Z01       | FUSE CHIP SMT TR/1608FF 3A                 |
| FL401       | 4870368G02       | CLOCK OSC XTAL<br>only GP360, GP380, GP680 |
| H3501       | 2680499Z01       | HEAT SPREADER                              |
| J3501       | 0180117S05       | RF JACK ASSEMBLY                           |
| J3502       | 0280519Z02       | NUT, ANTENNA                               |
| J400        | 0905505Y04       | CONN ZIF 40Pin<br>not in GP320             |
| J403        | 0905505Y02       | CONN ZIF MALE 20 PIN                       |
| L3200       | 2462587N68       | CHIP IND 1000 NH 5%                        |
| L3202       | 2462587N68       | CHIP IND 1000 NH 5%                        |
| L3221       | 2462587N68       | CHIP IND 1000 NH 5%                        |
| L3270       | 2462587T15       | IND CHIP 100NH 5% LOW PRO                  |
| L3271       | 2462587Q20       | IND CHIP 2,200NH 20%                       |
| L3301       | 2462587T35       | IND CHIP 12NH 5% LOW PRO                   |
| L3303       | 2462587T35       | IND CHIP 12NH 5% LOW PRO                   |

| Circuit Ref | Motorola Part No | Description                    |
|-------------|------------------|--------------------------------|
| L3304       | 2462587T23       | IND CHIP 470NH 5% LOW PRO      |
| L3305       | 2462587T35       | IND CHIP 12NH 5% LOW PRO       |
| L3306       | 2462587T35       | IND CHIP 12NH 5% LOW PRO       |
| L3308       | 2462587T34       | IND CHIP 10NH 5% LOW PRO       |
| L3309       | 2462587N55       | CHIP IND 150 NH 5%             |
| L3312       | 2462587V28       | CHIP IND 33 NH 5% 0805         |
| L3501       | 2413926H09       | IND CHIP 5.6 NH +/- 0.3NH      |
| L3503       | 2462587V32       | CHIP IND 68NH 5% 0805          |
| L3504       | 2462587N51       | CHIP IND 68 NH 5%              |
| L3511       | 2462587N44       | CHIP IND 18 NH 5%              |
| L3512       | 2479990B01       | AIR WOUND GREEN 11.03NH        |
| L3513       | 2479990A02       | AIR WOUND GREEN 7.66NH         |
| L3515       | 2479990C03       | AIR WOUND GREEN 13.85NH        |
| L3518       | 2462587N48       | CHIP IND 39 NH 5%              |
| L3519       | 2484657R01       | INDUCTOR BEAD CHIP             |
| L3521       | 2479990A02       | AIR WOUND GREEN 7.66NH         |
| L3522       | 2479990E01       | COIL AIR WOUND GREEN 23.75     |
| L3523       | 2462587N68       | CHIP IND 1000 NH 5%            |
| L3531       | 2479990N01       | AIR WOUND GREEN 43.67NH        |
| L3532       | 2479990N01       | AIR WOUND GREEN 43.67NH        |
| L3538       | 2479990M01       | AIR WOUND GREEN 30.54NH        |
| L3551       | 2479990N01       | AIR WOUND GREEN 43.67NH        |
| L3552       | 2479990A02       | AIR WOUND GREEN 7.66NH         |
| L3701       | 2462587Q42       | IND CHIP 390NH 10%             |
| L3731       | 2462587Q20       | IND CHIP 2,200NH 20%           |
| L3801       | 2462587V34       | CHIP IND 100NH 5% 0805         |
| L3809       | 2462587V27       | CHIP IND 27 NH 5% 0805         |
| L3811       | 2462587V34       | CHIP IND 100NH 5% 0805         |
| L3812       | 2462587V34       | CHIP IND 100NH 5% 0805         |
| L3813       | 2462587Q47       | IND CHIP 1000 NH 10%           |
| L3816       | 2462587V34       | CHIP IND 100NH 5% 0805         |
| L3821       | 2462587N50       | CHIP IND 56 NH 5%              |
| L3822       | 2462587N49       | CHIP IND 47 NH 5%              |
| L3823       | 2462587N49       | CHIP IND 47 NH 5%              |
| L3824       | 2462587N68       | CHIP IND 1000 NH 5%            |
| L3825       | 2462587V34       | CHIP IND 100NH 5%              |
| L3826       | 2462587N68       | CHIP IND 1000 NH 5%            |
| L3831       | 2462587N50       | CHIP IND 56 NH 5%              |
| L3832       | 2462587N51       | CHIP IND 68 NH 5%              |
| L3833       | 2462587N50       | CHIP IND 56 NH 5%              |
| L3834       | 2462587N68       | CHIP IND 1000 NH 5%            |
| L400        | 2462587Q42       | IND CHIP 390NH 10%             |
| L401        | 2462587Q42       | IND CHIP 390NH 10%             |
| L410        | 2462587Q42       | IND CHIP 390NH 10%             |
| L411        | 2462587Q42       | IND CHIP 390NH 10%             |
| L505        | 2462587Q42       | IND CHIP 390NH 10%             |
| PB501       | 4080523Z01       | SWITCH, TACT                   |
| PB502       | 4080523Z01       | SWITCH, TACT                   |
| PB503       | 4080523Z01       | SWITCH, TACT<br>not in GP320   |
| PB504       | 4080523Z01       | SWITCH, TACT                   |
| PB505       | 4080523Z01       | SWITCH, TACT<br>not in GP320   |
| Q3200       | 4813827A07       | TSTR NPN SML SIG<br>MMBR941LT1 |
| Q3201       | 4880214G02       | TSTR MMBT3904                  |

| Circuit Ref | Motorola Part No | Description                                       |
|-------------|------------------|---------------------------------------------------|
| Q3202       | 4880214G02       | TSTR MMBT3904                                     |
| Q3270       | 4805218N63       | RF TRANS SOT 323 Bfq67W                           |
| Q3301       | 4880214G02       | TSTR MMBT3904                                     |
| Q3302       | 4813827A07       | TSTR NPN MMBR941LT1                               |
| Q3501       | 4802245J55       | TSTR POWER FIELD EFFECT                           |
| Q3561       | 4813824A17       | XSTR PNP40V .2A B=100-300                         |
| Q3721       | 4802245J50       | TSTR DUAL NPN/PNP UMC5N                           |
| Q3801       | 4813827A07       | TSTR NPN MMBR941LT1                               |
| Q400        | 4809579E18       | MOSFET P-CHAN TP010IT                             |
| Q403        | 4880214G02       | TSTR MMBT3904                                     |
| Q405        | 4802245J54       | UMG5N DIGITAL TRANSISTOR                          |
| Q410        | 4802245J54       | UMG5N DIGITAL TRANSISTOR                          |
| Q416        | 4809579E18       | MOSFET P-CHAN TP010IT<br>only GP360, GP380, GP680 |
| Q417        | 4802245J50       | TSTR DUAL NPN/PNP UMC5N                           |
| Q502        | 5180159R01       | DUAL TRANS NPNS                                   |
| Q505        | 4880214G02       | TSTR MMBT3904                                     |
| R3200       | 0662057M54       | 150 5% 20X40                                      |
| R3201       | 0662057M82       | 2200 5% 20X40                                     |
| R3202       | 0662057M90       | 4700 5% 20X40                                     |
| R3203       | 0662057M98       | 10K 5% 20X40                                      |
| R3204       | 0662057M26       | 10 5% 20X40                                       |
| R3205       | 0662057M74       | 1000 5% 20X40                                     |
| R3206       | 0662057N23       | 100K 5% 20X40                                     |
| R3207       | 0662057N13       | 39K 5% 20X40                                      |
| R3208       | 0662057M50       | 100 5% 20X40                                      |
| R3209       | 0662057M74       | 1000 5% 20X40                                     |
| R3210       | 0662057M82       | 2200 5% 20X40                                     |
| R3211       | 0662057M82       | 2200 5% 20X40                                     |
| R3212       | 0662057M90       | 4700 5% 20X40                                     |
| R3213       | 0662057M82       | 2200 5% 20X40                                     |
| R3214       | 0662057M34       | 22 5% 20X 40                                      |
| R3219       | 0662057M50       | 100 5% 20X40                                      |
| R3220       | 0662057M90       | 4700 5% 20X40                                     |
| R3221       | 0662057M50       | 100 5% 20X40                                      |
| R3224       | 0662057M26       | 10 5% 20X40                                       |
| R3225       | 0662057M74       | 1000 5% 20X40                                     |
| R3226       | 0662057M26       | 10 5% 20X40                                       |
| R3270       | 0662057M74       | 1000 5% 20X40                                     |
| R3271       | 0662057M42       | 47 5% 20X40                                       |
| R3272       | 0662057N15       | 47K 5% 20X40                                      |
| R3273       | 0662057N15       | 47K 5% 20X40                                      |
| R3274       | 0662057M83       | 2400 5% 20X40                                     |
| R3275       | 0662057M74       | 1000 5% 20X40                                     |
| R3276       | 0662057N30       | 200K 5% 20X40                                     |
| R3303       | 0662057N23       | 100K 5% 20X40                                     |
| R3304       | 0662057N23       | 100K 5% 20X40                                     |
| R3305       | 0662057N19       | 68K 5% 20X40                                      |
| R3306       | 0662057M82       | 2200 5% 20X40                                     |
| R3307       | 0662057N11       | 33K 5% 20X40                                      |
| R3308       | 0662057M78       | 1500 5% 20X40                                     |
| R3309       | 0662057M92       | 5600 5% 20X40                                     |
| R3310       | 0662057M98       | 10K 5% 20X40                                      |
| R3311       | 0662057M26       | 10 5% 20X40                                       |
| R3312       | 0662057M38       | 33 5% 20X40                                       |
| R3313       | 0662057M34       | 22 5% 20X 40                                      |

| Circuit Ref | Motorola Part No | Description       |
|-------------|------------------|-------------------|
| R3314       | 0662057M26       | 10 5% 20X40       |
| R3315       | 0662057M62       | 330 5% 20X40      |
| R3316       | 0662057M66       | 470 5% 20X40      |
| R3317       | 0662057N23       | 100K 5% 20X40     |
| R3318       | 0662057M66       | 470 5% 20X40      |
| R3321       | 0662057M54       | 150 5% 20X40      |
| R3322       | 0662057M58       | 220 5% 20X40      |
| R3323       | 0662057M32       | 18 5% 20X40       |
| R3324       | 0662057M58       | 220 5% 20X40      |
| R3501       | 0662057M61       | 300 5% 20X40      |
| R3502       | 0662057M32       | 18 5% 20X40       |
| R3503       | 0662057M61       | 300 5% 20X40      |
| R3505       | 0662057M62       | 330 5% 20X40      |
| R3512       | 0662057A27       | 120 OHMS 5%       |
| R3513       | 0662057A25       | 100 OHMS 5%       |
| R3519       | 0680539Z01       | POWER METAL STRIP |
| R3542       | 0662057M92       | 5600 5% 20X40     |
| R3543       | 0662057M50       | 100 5% 20X40      |
| R3544       | 0662057A25       | 100 OHMS 5%       |
| R3545       | 0662057A25       | 100 OHMS 5%       |
| R3546       | 0662057N11       | 33K 5% 20X40      |
| R3547       | 0662057N01       | 12K 5% 20X40      |
| R3548       | 0662057M95       | 7500 55 20X40     |
| R3551       | 0662057M40       | 39 5% 20X40       |
| R3561       | 0662057N01       | 12K 5% 20X40      |
| R3562       | 0662057N11       | 33K 5% 20X40      |
| R3563       | 0662057N33       | 270K 5% 20X40     |
| R3564       | 0662057N35       | 330K 5% 20X40     |
| R3569       | 0662057M92       | 5600 5% 20X40     |
| R3570       | 0662057M98       | 10K 5% 20X40      |
| R3571       | 0662057A27       | 120 OHMS 5%       |
| R3572       | 0662057A27       | 120 OHMS 5%       |
| R3573       | 0662057A27       | 120 OHMS 5%       |
| R3701       | 0662057M50       | 100 5% 20X40      |
| R3703       | 0662057M54       | 150 5% 20X40      |
| R3704       | 0662057M54       | 150 5% 20X40      |
| R3705       | 0662057N11       | 33K 5% 20X40      |
| R3721       | 0662057M66       | 470 5% 20X40      |
| R3722       | 0662057M74       | 1000 5% 20X40     |
| R3723       | 0662057M50       | 100 5% 20X40      |
| R3727       | 0662057N23       | 100K 5% 20X40     |
| R3741       | 0662057M50       | 100 5% 20X40      |
| R3751       | 0662057N30       | 200K 5% 20X40     |
| R3752       | 0662057N35       | 330K 5% 20X40     |
| R3761       | 0662057N15       | 47K 5% 20X40      |
| R3802       | 0662057M50       | 100 5% 20X40      |
| R3803       | 0662057M58       | 220 5% 20X40      |
| R3804       | 0662057M98       | 10K 5% 20X40      |
| R3805       | 0662057N08       | 24K 5% 20X40      |
| R3806       | 0662057M34       | 22 5% 20X 40      |
| R3808       | 0662057M26       | 10 5% 20X40       |
| R3811       | 0662057M50       | 100 5% 20X40      |
| R3816       | 0662057M74       | 1000 5% 20X40     |
| R3817       | 0662057M01       | 0 5% 20X40        |
| R3821       | 0662057M58       | 220 5% 20X40      |
| R3822       | 0662057M42       | 47 5% 20X40       |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| R3823       | 0662057N11       | 33K 5% 20X40               |
| R3824       | 0662057N07       | 22K 5% 20X40               |
| R3825       | 0662057M38       | 33 5% 20X40                |
| R3826       | 0662057M32       | 18 5% 20X40                |
| R3828       | 0662057M50       | 100 5% 20X40               |
| R3829       | 0662057M01       | 0 5% 20X40                 |
| R3831       | 0662057M98       | 10K 5% 20X40               |
| R3832       | 0662057N01       | 12K 5% 20X40               |
| R3833       | 0662057M58       | 220 5% 20X40               |
| R3834       | 0662057M42       | 47 5% 20X40                |
| R3835       | 0662057N15       | 47K 5% 20X40               |
| R3836       | 0662057M98       | 10K 5% 20X40               |
| R400        | 0662057N15       | 47K 5% 20X40               |
| R401        | 0662057M01       | 0 5% 20X40                 |
| R405        | 0662057M01       | 0 5% 20X40                 |
| R406        | 0662057N20       | 75K 5% 20X40               |
| R407        | 0662057N19       | 68K 5% 20X40               |
| R409        | 0662057M98       | 10K 5% 20X40               |
| R410        | 0662057N23       | 100K 5% 20X40              |
| R411        | 0662057M98       | 10K 5% 20X40               |
| R413        | 0662057M01       | 0 5% 20X40                 |
| R414        | 0662057V34       | 180K 1% 1/16W              |
| R415        | 0662057V26       | 91K 1% 1/16W               |
| R416        | 0662057N13       | 39K 5% 20X40               |
| R418        | 0662057M01       | 0 5% 20X40                 |
| R419        | 0662057M67       | 0 5% 20X40                 |
|             |                  | only GP360, GP380, GP680   |
| R420        | 0662057B46       | 10.0 MEG OHMS 5%           |
|             |                  | only GP360, GP380, GP680   |
| R421        | 0662057M81       | 2000 5% 20X40              |
| R423        | 0662057N21       | 82K 5% 20X40               |
| R424        | 0662057N12       | 36K 5% 20X40               |
| R425        | 0662057N10       | 30K 5% 20X40               |
| R426        | 0662057N35       | 330K 5% 20X40              |
|             |                  | only GP360, GP380, GP680   |
| R427        | 0662057M84       | 2700 5% 20X40              |
| R428        | 0662057M10       | 2.2 5% 20X40               |
| R429        | 0662057M98       | 10K 5% 20X40               |
| R431        | 0662057N39       | 470K 5% 20X40              |
| R432        | 0662057N16       | 51K 5% 20X40               |
| R434        | 0662057M62       | 330 5% 20X40               |
| R435        | 0662057M81       | 2000 5% 20X40              |
| R436        | 0662057M01       | 0 5% 20X40                 |
| R445        | 0662057N08       | 24K 5% 20X40               |
| R446        | 0662057N31       | RES, CHIP 220K 5% 20X40    |
| R447        | 0662057N51       | RES, CHIP 1.5 MEG 5% 20X40 |
| R448        | 0662057N33       | 270K 5% 20X40              |
| R449        | 0662057N08       | 24K 5% 20X40               |
| R450        | 0683962T45       | 68 5-1                     |
| R457        | 0662057M98       | 10K 5% 20X40               |
| R460        | 0662057M90       | 4700 5% 20X40              |
| R461        | 0662057M56       | 180 5% 20X40               |
|             |                  | only GP360, GP380, GP680   |
| R462        | 0662057M98       | 10K 5% 20X40               |
|             |                  | only GP360, GP380, GP680   |
| R463        | 0662057M61       | 300 5% 20X40               |

| Circuit Ref | Motorola Part No | Description                 |
|-------------|------------------|-----------------------------|
| R471        | 0662057M92       | 5600 5% 20X40               |
| R472        | 0662057M93       | 6200 5% 20X40               |
| R473        | 0662057M26       | 10 5% 20X40                 |
| R475        | 0662057M01       | 0 5% 20X40                  |
| R476        | 0662057N08       | 24K 5% 20X40                |
| R477        | 0662057M74       | 1000 5% 20X40               |
| R478        | 0662057M98       | 10K 5% 20X40                |
| R481        | 0662057N08       | 24K 5% 20X40                |
| R492        | 0662057M01       | 0 5% 20X40                  |
| R501        | 0662057M70       | 680 5% 20X40                |
| R502        | 0662057M56       | 180 5% 20X40                |
| R505        | 0662057M98       | 10K 5% 20X40                |
| R506        | 0662057N15       | 47K 5% 20X40                |
| RT400       | 0680590Z01       | THERMISTOR_33K              |
| S501        | 4080710Z01       | SWITCH (FREQUENCY)          |
|             |                  | only GP340, GP640           |
| S501        | 4080710Z02       | SWITCH (FREQUENCY)          |
|             |                  | only GP360, GP380, GP680    |
| S502        | 1880619Z01       | POTENTIOMETER, VOLUME       |
| SH3201      | 2602023X08       | SHIELD                      |
| SH3202      | 2686081B02       | SHIELD                      |
| SH3203      | 2686081B03       | SHIELD                      |
| SH3301      | 2686081B01       | SHIELD                      |
| SH3302      | 2686081B05       | SHIELD                      |
| SH3303      | 2686081B06       | SHIELD                      |
| SH3501      | 2686081B03       | SHIELD                      |
| SH3502      | 2686081B04       | SHIELD                      |
| SH3701      | 2680511Z01       | SHIELD SYNTHESIZER          |
| SH3702      | 2680511Z01       | SHIELD SYNTHESIZER          |
| SH3801      | 2680513Z01       | SHIELD VCO TOP              |
| SH3802      | 2680514Z01       | SHIELD VCO BOTTOM/LVZIF     |
| SH400       | 2680505Z01       | CONTROLLER TOP LEFT         |
| SH401       | 2680506Z01       | CONTROLLER TOP RIGHT        |
| SH402       | 2680515Z01       | CONTROLLER BOTTOM LEFT      |
| SH403       | 2680516Z01       | CONTROLLER BTM RIGHT        |
| T3301       | 2580541Z01       | BALUN TRANSFORMER           |
| T3302       | 2580541Z01       | BALUN TRANSFORMER           |
| U3201       | 5102463J58       | 3.3V REG IN SOT23-5 PKG     |
| U3220       | 5109632D83       | IC LVZIF 2.2 H60G 48TQFP    |
| U3501       | 5105109Z67       | IC LDMOS DRIVER VHF/UHF     |
| U3502       | 5185765B01       | IC POWER CONTROL PASS 2.3   |
| U3503       | 5185963A15       | IC TEMP SENSOR 1M50C        |
| U3701       | 5185963A27       | IC FRACN AT25016 48 PIN GFP |
| U3711       | 5105739X05       | IC 5V REGULATOR             |
| U3801       | 5105750U54       | IC VCO BUFFER               |
| U400        | 5102463J40       | REG 3.3V, LP2951CMM-3.3     |
| U404        | 5185963A53       | IC ASFIC CMP TQFP 48PIN PKG |
| U405        | 5102463J36       | STATIC_RAM_32KX8            |
| * U406      | 5102463J60       | IC 512KX8 FLASH ROM         |
| * U407      | 5102463J64       | 16KX8 SPI SERIAL EEPROM     |
| U409        | 5102226J56       | 68HC11FLO_PASS5 TQFP        |
| U410        | 5102463J57       | REG 3.3V, ILC7062CM-33      |
|             |                  | only GP360, GP380, GP680    |
| U420        | 5102463J44       | AUDIO AMPLIFIER TDA8547TS   |
| VR432       | 4805656W08       | ZENER QUAD                  |
| VR433       | 4805656W08       | ZENER QUAD                  |

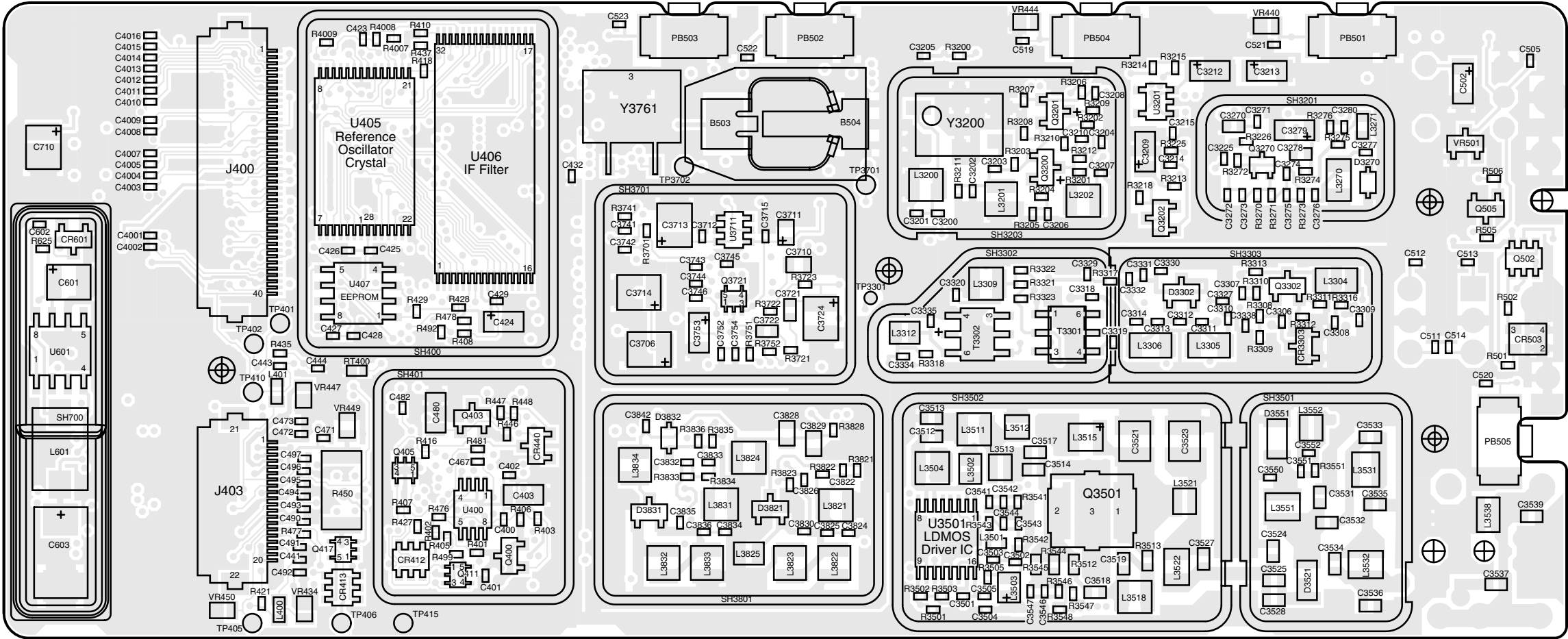
| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| VR434       | 4802245J51       | ZENER DIODE; BZX284-C6V8" |
| VR439       | 4880140L15       | 10V ZENER                 |
| VR447       | 4802245J53       | ZENER_DIODE; BZX284-C10   |
| VR448       | 4802245J53       | ZENER_DIODE; BZX284-C10   |
| VR449       | 4802245J53       | ZENER_DIODE; BZX284-C10   |
| VR450       | 4802245J53       | ZENER_DIODE; BZX284-C10   |
| VR501       | 4813830A18       | 6.8V 5% 225MWMMBZ5235B_   |
| VR506       | 4802245J51       | ZENER DIODE; BZX284-C6V8  |
| Y3200       | 9186153B01       | XTAL FILTER, SMD 45.1MHz  |
| Y3761       | 4802245J49       | CRYSTL 16.8MHZ WITH CLIP  |

\* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

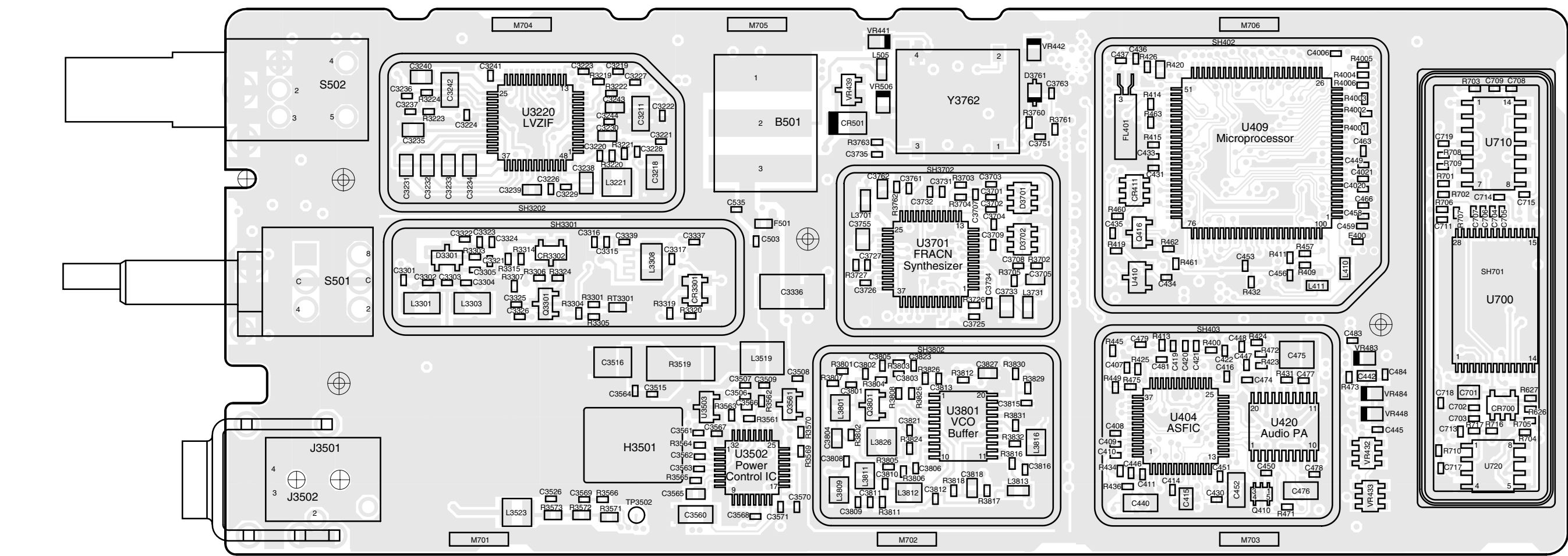
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4.0 VHF PCB 8486101B09 / Schematics (GP1280)



ZWG0130096-A

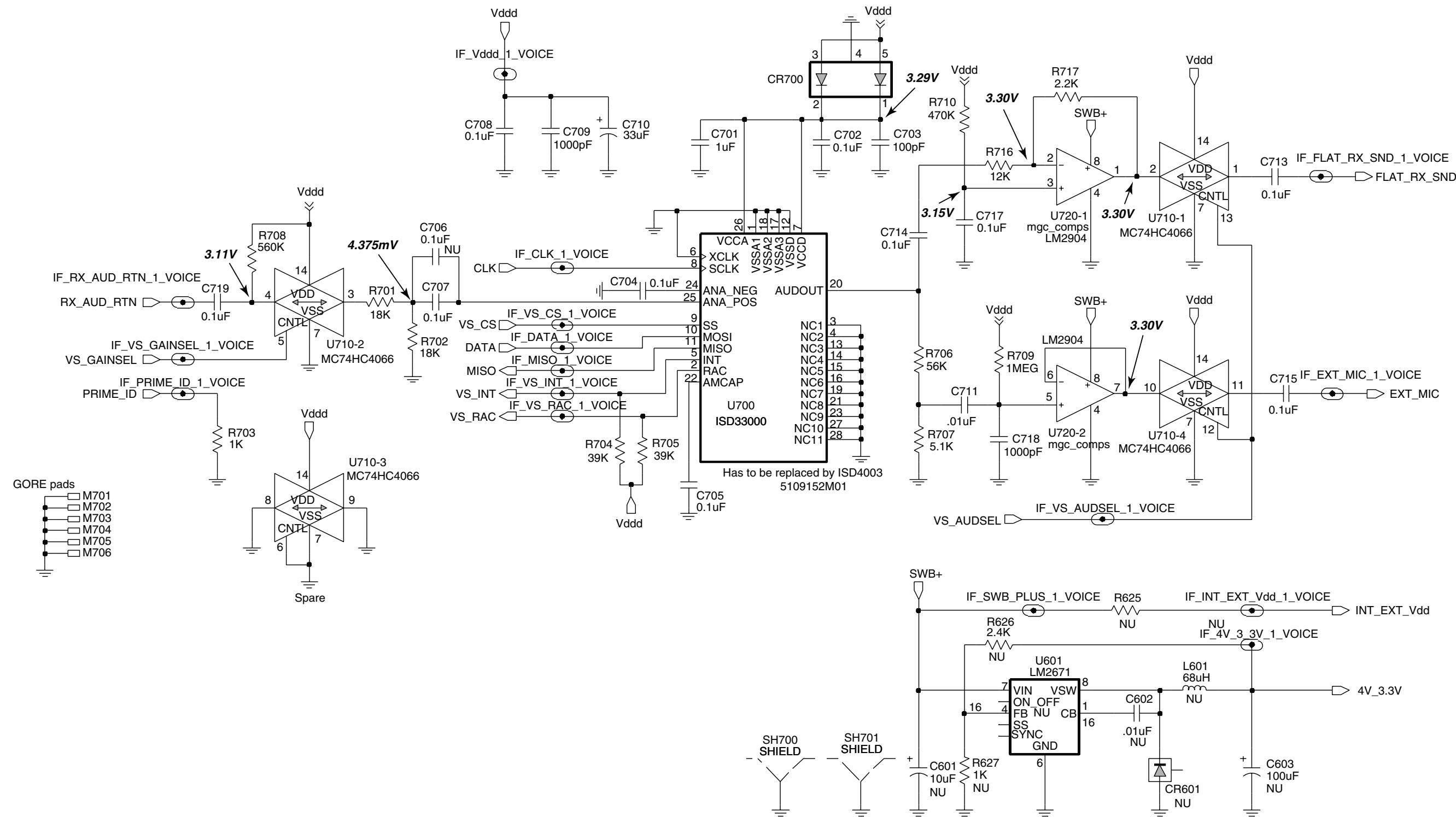
VHF (136-174 MHz) Main Board Top Side



ZWG0130097-A

VHF (136-174 MHz) Main Board Bottom Side





ZWG0130296-A

VHF (136-174 MHz) GP1280 - Voice Storage Schematic

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5.0 VHF PCB 8086101B09 Parts List (GP1280)

| Circuit Ref | Motorola Part No | Description              |
|-------------|------------------|--------------------------|
| B501        | 0986237A01       | CONN, CONTACT BATTERY    |
| B503        | 3980502Z01       | CONTACT, BACKUP B+       |
| B504        | 3980501Z01       | CONTACT, BACKUP B-       |
| C3200       | 2113743N31       | 16.0 PF 5%               |
| C3203       | 2113743N50       | 100 PF 5%                |
| C3204       | 2113743L41       | 10000 PF 10%             |
| C3205       | 2113928N01       | 0.1UF 10% 6.3            |
| C3206       | 2113743L41       | 10000 PF 10%             |
| C3207       | 2113743N10       | 2.2 PF +/- .25PF         |
| C3209       | 2311049A07       | TANT 10% 1.0UF           |
| C3210       | 2113743L17       | 1000 PF 10%              |
| C3211       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3212       | 2311049A07       | TANT 10% 1.0UF           |
| C3213       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3214       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3215       | 2113743N26       | 10.0 PF 5%               |
| C3218       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3219       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3220       | 2113743N26       | 10.0 PF 5%               |
| C3221       | 2113743L41       | 10000 PF 10%             |
| C3222       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3223       | 2113928N01       | 0.1UF 10% 6.3            |
| C3224       | 2113928N01       | 0.1UF 10% 6.3            |
| C3225       | 2113928N01       | 0.1UF 10% 6.3            |
| C3226       | 2113928N01       | 0.1UF 10% 6.3            |
| C3227       | 2113743L41       | 10000 PF 10%             |
| C3228       | 2113743L41       | 10000 PF 10%             |
| C3229       | 2113743N50       | 100 PF 5%                |
| C3230       | 2113740F51       | REEL CL1 +/-30 100       |
| C3231       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3232       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3233       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3234       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3235       | 2113743A23       | .220UF 10%               |
| C3238       | 2113743A24       | .330 UF 10% 16V          |
| C3239       | 2113743E07       | .022UF                   |
| C3240       | 2113743A23       | .220UF 10%               |
| C3241       | 2113743L19       | 1200 PF 10%              |
| C3242       | 2109720D14       | LOW DIST 0.1UF           |
| C3243       | 2113743E07       | .022UF                   |
| C3244       | 2113743L41       | 10000 PF 10%             |
| C3270       | 2113743E07       | .022UF                   |
| C3271       | 2113743L05       | 330 PF 10%               |
| C3272       | 2113743N18       | 4.7 PF +/- .25PF         |
| C3273       | 2113743N26       | 10.0 PF 5%               |
| C3274       | 2113743N38       | 33.0 PF 5%               |
| C3275       | 2113743N44       | 56.0 PF 5%               |

| Circuit Ref | Motorola Part No | Description            |
|-------------|------------------|------------------------|
| C3276       | 2113743N42       | 47.0 PF 5%             |
| C3277       | 2113743N48       | 82.0 PF 5%             |
| C3278       | 2113743E07       | .022UF                 |
| C3279       | 2311049A40       | GLOBAL TANT 10% 2.2 UF |
| C3280       | 2113743L41       | 10000 PF 10%           |
| C3301       | 2113743N20       | 5.6 PF +/- .5PF        |
| C3302       | 2113743N54       | 150 PF 5%              |
| C3303       | 2113743N30       | 15.0PF 5%              |
| C3304       | 2113743N54       | 150 PF 5%              |
| C3306       | 2113928N01       | 0.1UF 10% 6.3          |
| C3307       | 2113743N50       | 100 PF 5%              |
| C3308       | 2113743L05       | 330 PF 10%             |
| C3309       | 2113928N01       | 0.1UF 10% 6.3          |
| C3311       | 2113743N54       | 150 PF 5%              |
| C3312       | 2113743N31       | 16.0 PF 5%             |
| C3313       | 2113743N54       | 150 PF 5%              |
| C3315       | 2113743N26       | 10.0 PF 5%             |
| C3316       | 2113743N14       | 3.3 PF +/- .25PF       |
| C3317       | 2113743N40       | 39.0 PF 5%             |
| C3318       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3320       | 2113743N48       | 82.0 PF 5%             |
| C3321       | 2113743L05       | 330 PF 10%             |
| C3322       | 2113743N50       | 100 PF 5%              |
| C3323       | 2113743N50       | 100 PF 5%              |
| C3324       | 2113743N38       | 33.0 PF 5%             |
| C3325       | 2113743L17       | 1000 PF 10%            |
| C3327       | 2113743L05       | 330 PF 10%             |
| C3329       | 2113743L05       | 330 PF 10%             |
| C3330       | 2113743N50       | 100 PF 5%              |
| C3331       | 2113743N50       | 100 PF 5%              |
| C3332       | 2113743N40       | 39.0 PF 5%             |
| C3334       | 2113743N33       | 20.0 PF 5%             |
| C3335       | 2113743N34       | 22.0 PF 5%             |
| C3336       | 2311049A18       | CAP. TANT 10% 10UF     |
| C3337       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3338       | 2113743L09       | 470 PF 10%             |
| C3339       | 2113743N26       | 10.0 PF 5%             |
| C3501       | 2113743L05       | 330 PF 10%             |
| C3502       | 2113743N38       | 33.0 PF 5%             |
| C3503       | 2113743N38       | 33.0 PF 5%             |
| C3504       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3505       | 2113743N38       | 33.0 PF 5%             |
| C3508       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3509       | 2113743L05       | 330 PF 10%             |
| C3512       | 2113740F43       | REEL CL1 +/-30 47      |
| C3513       | 2113740F38       | REEL CL1 +/-30 30      |
| C3514       | 2113740F67       | CL1 +/-30 470 5%       |
| C3515       | 2113743L29       | 3300PF 10%             |
| C3516       | 2311049A08       | KEMET CAPS             |
| C3517       | 2113740F51       | REEL CL1 +/-30 100     |
| C3518       | 2113740F63       | CL1 +/-30 330 5%       |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| C3519       | 2113740F35       | REEL CL1 +/-30 22         |
| C3521       | 2111078B51       | RF 220 5 NPO 100V         |
| C3523       | 2111078B44       | RF 120 5 NPO 100V         |
| C3524       | 2113740F33       | REEL CL1 +/-30 18         |
| C3525       | 2113740F27       | REEL CL1 +/-30 10         |
| C3526       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3528       | 2113740F26       | REEL CL1 +/-30 9.1        |
| C3531       | 2113740F34       | REEL CL1 +/-30 20         |
| C3532       | 2113740F47       | REEL CL1 +/-30 68         |
| C3533       | 2113740F24       | REEL CL1 +/-30 7.5        |
| C3534       | 2113740F19       | CHIP CAP, CER 4.7PF       |
| C3535       | 2113740F37       | REEL CL1 +/-30 27         |
| C3536       | 2113740F31       | REEL CL1 +/-30 15         |
| C3537       | 2113740F33       | REEL CL1 +/-30 18         |
| C3539       | 2113740F21       | REEL CL1 +/-30 5.6        |
| C3541       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3542       | 2113743L05       | 330 PF 10%                |
| C3543       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3544       | 2113743L05       | 330 PF 10%                |
| C3546       | 2113743L05       | 330 PF 10%                |
| C3547       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3550       | 2113743N23       | 7.5 PF +/- .5PF           |
| C3551       | 2113743N46       | 68.0 PF 5%                |
| C3552       | 2113743N44       | 56.0 PF 5%                |
| C3560       | 2311049A07       | TANT 10% 1.0UF            |
| C3561       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3562       | 2113743L29       | 3300PF 10%                |
| C3563       | 2113743L29       | 3300PF 10%                |
| C3564       | 2113743L01       | 220 PF 10%                |
| C3565       | 2113743E07       | .022UF                    |
| C3566       | 2113743N50       | 100 PF 5%                 |
| C3567       | 2113743L05       | 330 PF 10%                |
| C3568       | 2113743L29       | 3300PF 10%                |
| C3569       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3570       | 2113743L05       | 330 PF 10%                |
| C3571       | 2113743L09       | 470 PF 10%                |
| C3701       | 2113743L41       | 10000 PF 10%              |
| C3702       | 2113743L41       | 10000 PF 10%              |
| C3703       | 2113743L41       | 10000 PF 10%              |
| C3704       | 2113743L41       | 10000 PF 10%              |
| C3705       | 2113743E20       | CHIP. 10 UF 10%           |
| C3706       | 2311049J11       | CAPACITOR TANT 10% 4.7UF  |
| C3707       | 2113743N34       | 22.0 PF 5%                |
| C3708       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3709       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3710       | 2104993J02       | MONOLITH CERAMIC (2.2UF)  |
| C3711       | 2311049A69       | TAN CHIP 10.0 UF 20% 6.3V |
| C3712       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3713       | 2311049A09       | TANT 2.2 UF 10%           |
| C3714       | 2311049J11       | CAPACITOR TANT 10% 4.7UF  |
| C3715       | 2113743L09       | 470 PF 10%                |

| Circuit Ref | Motorola Part No | Description              |
|-------------|------------------|--------------------------|
| C3721       | 2113743E20       | CHIP. 10 UF 10%          |
| C3722       | 2113743E20       | CHIP. 10 UF 10%          |
| C3724       | 2311049A08       | KEMET CAPS               |
| C3726       | 2113743N24       | 8.2 PF +/- .5PF          |
| C3727       | 2113743N50       | 100 PF 5%                |
| C3731       | 2113743L41       | 10000 PF 10%             |
| C3732       | 2113743L41       | 10000 PF 10%             |
| C3733       | 2104993J02       | MONOLITH CERAMIC (2.2UF) |
| C3734       | 2113743L41       | 10000 PF 10%             |
| C3742       | 2113743L01       | 220 PF 10%               |
| C3743       | 2113743L01       | 220 PF 10%               |
| C3744       | 2113743L01       | 220 PF 10%               |
| C3745       | 2113743L01       | 220 PF 10%               |
| C3746       | 2113743L01       | 220 PF 10%               |
| C3752       | 2113743L17       | 1000 PF 10%              |
| C3753       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3754       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3755       | 2104993J02       | MONOLITH CERAMIC (2.2UF) |
| * C3761     | 2113743N44       | 56.0 PF 5%               |
| * C3762     | 2113740F63       | 330 CL1 +/-30 5%         |
| * C3763     | 2113743N08       | 1.6 PF +/- .25PF         |
| C3801       | 2113743N18       | 4.7 PF +/- .25PF         |
| C3803       | 2113743L17       | 1000 PF 10%              |
| C3804       | 2113743E20       | CHIP. 10 UF 10%          |
| C3805       | 2113743N18       | 4.7 PF +/- .25PF         |
| C3806       | 2113743N50       | 100 PF 5%                |
| C3808       | 2113743N30       | 15.0PF 5%                |
| C3809       | 2113743N36       | 27.0 PF 5%               |
| C3811       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3812       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3813       | 2113743L41       | 10000 PF 10%             |
| C3815       | 2113743L17       | 1000 PF 10%              |
| C3816       | 2113743N22       | 6.8 PF +/- .5PF          |
| C3818       | 2113743E07       | .022UF                   |
| C3821       | 2113743L41       | 10000 PF 10%             |
| C3822       | 2113743L17       | 1000 PF 10%              |
| C3823       | 2113743L41       | 10000 PF 10%             |
| C3824       | 2113743N44       | 56.0 PF 5%               |
| C3825       | 2113743N30       | 15.0PF 5%                |
| C3826       | 2113743N18       | 4.7 PF +/- .25PF         |
| C3827       | 2113743E07       | .022UF                   |
| C3828       | 2109720D01       | LOW DIS T .01UF          |
| C3829       | 2109720D01       | LOW DIS T .01UF          |
| C3830       | 2113743N46       | 68.0 PF 5%               |
| C3832       | 2113743L17       | 1000 PF 10%              |
| C3833       | 2113743N18       | 4.7 PF +/- .25PF         |
| C3834       | 2113743N44       | 56.0 PF 5%               |
| C3835       | 2113743N22       | 6.8 PF +/- .5PF          |
| C3836       | 2113743N30       | 15.0PF 5%                |
| C3842       | 2113743L17       | 1000 PF 10%              |
| C400        | 2113743L41       | 10000 PF 10%             |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| C4001       | 2113743N50       | 100 PF 5%                 |
| C4002       | 2113743N50       | 100 PF 5%                 |
| C4003       | 2113743N50       | 100 PF 5%                 |
| C401        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C402        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C4020       | 2113743L17       | 1000 PF 10%               |
| C4021       | 2113743L17       | 1000 PF 10%               |
| C403        | 2113928D08       | CERAMIC CHIP 10.0UF       |
| C407        | 2113928N01       | 0.1UF 10% 6.3             |
| C408        | 2113743N50       | 100 PF 5%                 |
| C409        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C410        | 2113928N01       | 0.1UF 10% 6.3             |
| C411        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C414        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C415        | 2109720D01       | LOW DIS T .01UF           |
| C416        | 2113928N01       | 0.1UF 10% 6.3             |
| C419        | 2113743L41       | 10000 PF 10%              |
| C420        | 2113743L41       | 10000 PF 10%              |
| C421        | 2113928N01       | 0.1UF 10% 6.3             |
| C422        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C423        | 2113743N50       | 100 PF 5%                 |
| C424        | 2311049A59       | TANT CHIP A/P 10UF 10% 6V |
| C425        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C426        | 2113743N50       | 100 PF 5%                 |
| C427        | 2113743N50       | 100 PF 5%                 |
| C428        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C429        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C430        | 2113928N01       | 0.1UF 10% 6.3             |
| C431        | 2113743N50       | 100 PF 5%                 |
| C433        | 2113743L41       | 10000 PF 10%              |
| C434        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C435        | 2113743M24       | 100000 PF +80-20% Y5V     |
| C436        | 2113743N34       | 22.0 PF 5%                |
| C437        | 2113743N34       | 22.0 PF 5%                |
| C440        | 2113743G26       | 4.7UF 16V + 80-20%        |
| C441        | 2113743L09       | 470 PF 10%                |
| C442        | 2113743E20       | 10 UF 10%                 |
| C443        | 2113928N01       | CERAMIC CHIP 10.0UF       |
| C444        | 2113743N50       | 100 PF 5%                 |
| C445        | 2113743L09       | 470 PF 10%                |
| C446        | 2113743L09       | 470 PF 10%                |
| C447        | 2113928N01       | CERAMIC CHIP 10.0UF       |
| C448        | 2113928N01       | CERAMIC CHIP 10.0UF       |
| C449        | 2113743N50       | 100 PF 5%                 |
| C451        | 2113743M08       | 22000PF +80-20% Y5V       |
| C452        | 2113743G26       | 4.7UF 16V + 80-20%        |
| C453        | 2113743N50       | 100 PF 5%                 |
| C456        | 2113743N50       | 100 PF 5%                 |
| C458        | 2113743N50       | 100 PF 5%                 |
| C459        | 2113743N50       | 100 PF 5%                 |
| C463        | 2113743N50       | 100 PF 5%                 |

| Circuit Ref | Motorola Part No | Description            |
|-------------|------------------|------------------------|
| C466        | 2113743N50       | 100 PF 5%              |
| C467        | 2113928N01       | 0.1UF 10% 6.3          |
| C471        | 2113743L09       | 470 PF 10%             |
| C472        | 2113743L09       | 470 PF 10%             |
| C473        | 2113743L09       | 470 PF 10%             |
| C474        | 2113743L41       | 10000 PF 10%           |
| C475        | 2113743H14       | 10.0 UF 16V +80-20%    |
| C476        | 2113928D08       | CERAMIC CHIP 10.0UF    |
| C477        | 2113743L17       | 1000 PF 10%            |
| C478        | 2113743L17       | 1000 PF 10%            |
| C479        | 2113928N01       | 0.1UF 10% 6.3          |
| C480        | 2113928D08       | CERAMIC CHIP 10.0UF    |
| C481        | 2113928N01       | 0.1UF 10% 6.3          |
| C482        | 2113928N01       | 0.1UF 10% 6.3          |
| C483        | 2113743L09       | 470 PF 10%             |
| C484        | 2113743L09       | 470 PF 10%             |
| C490        | 2113743L09       | 470 PF 10%             |
| C491        | 2113743L09       | 470 PF 10%             |
| C492        | 2113743L09       | 470 PF 10%             |
| C493        | 2113743N50       | 100 PF 5%              |
| C494        | 2113743N50       | 100 PF 5%              |
| C495        | 2113743L09       | 470 PF 10%             |
| C496        | 2113743L09       | 470 PF 10%             |
| C497        | 2113743L09       | 470 PF 10%             |
| C502        | 2311049A05       | TANT 10% 0.47UF        |
| C503        | 2113743N50       | 100 PF 5%              |
| C505        | 2113743N50       | 100 PF 5%              |
| C511        | 2113743N50       | 100 PF 5%              |
| C512        | 2113743N50       | 100 PF 5%              |
| C513        | 2113743N50       | 100 PF 5%              |
| C514        | 2113743N50       | 100 PF 5%              |
| C520        | 2113743L41       | 10000 PF 10%           |
| C521        | 2113743L41       | 10000 PF 10%           |
| C522        | 2113743L41       | 10000 PF 10%           |
| C523        | 2113743L41       | 10000 PF 10%           |
| C535        | 2113743L17       | 1000 PF 10%            |
| C701        | 2180478Z20       | MONOLITHIC CER (1.0UF) |
| C702        | 2113928N01       | 0.1UF 10% 6.3          |
| C703        | 2113743N50       | 100 PF 5%              |
| C704        | 2113928N01       | 0.1UF 10% 6.3          |
| C705        | 2113928N01       | 0.1UF 10% 6.3          |
| C707        | 2113928N01       | 0.1UF 10% 6.3          |
| C708        | 2113928N01       | 0.1UF 10% 6.3          |
| C709        | 2113743L17       | 1000 PF 10%            |
| C711        | 2113743L41       | 10000 PF 10%           |
| C713        | 2113928N01       | 0.1UF 10% 6.3          |
| C714        | 2113928N01       | 0.1UF 10% 6.3          |
| C715        | 2113928N01       | 0.1UF 10% 6.3          |
| C717        | 2113928N01       | 0.1UF 10% 6.3          |
| C718        | 2113743L17       | 1000 PF 10%            |
| C719        | 2113928N01       | 0.1UF 10% 6.3          |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| CR3301      | 4802245J42       | RING QUAD SOT-143 PKG     |
| CR3302      | 4805129M96       | DIODE DUAL                |
| CR3303      | 4880154K03       | SOT MMBD353 DUAL SCHTKY   |
| CR411       | 4802245J47       | SCHOTTKY BARRIER(RB471E)  |
| CR411       | 4802245J62       | DIODE SCHOTTKY, RB731U    |
| CR412       | 4802245J62       | DIODE SCHOTTKY, RB731U    |
| CR413       | 4802245J62       | DIODE SCHOTTKY, RB731U    |
| CR440       | 4813833C02       | DUAL 70V '5B' COMM CATH   |
| CR501       | 4880107R01       | RECTIFIER                 |
| CR503       | 4805729G49       | DIODE RED/YEL             |
| CR700       | 4802245J47       | SCHOTTKY BARRIER(RB471E)  |
| D3270       | 4862824C01       | DIODE VARACTOR            |
| D3301       | 4802081B58       | DUAL SILCON (VARICAP)     |
| D3302       | 4802081B58       | DUAL SILCON (VARICAP)     |
| D3521       | 4880973Z02       | PIN DIODE                 |
| D3551       | 4880973Z02       | PIN DIODE                 |
| D3701       | 4802233J09       | DIODE TRIPLE SOT25-RH     |
| D3702       | 4802233J09       | DIODE TRIPLE SOT25-RH     |
| * D3761     | 4862824C03       | DIODE VARACTOR            |
| D3821       | 4805649Q13       | DIODE VCTR ISV 228        |
| D3831       | 4805649Q13       | DIODE VCTR ISV 228        |
| D3832       | 4862824C01       | DIODE VARACTOR            |
| E400        | 2480640Z01       | C/IND BK1005HM471 BEAD    |
| F501        | 6580542Z01       | FUSE SMT TR/1608FF 3A     |
| FL401       | 4870368G02       | REFLOW CLOCK OSC XTAL     |
| H3501       | 2680499Z01       | HEAT SPREADER             |
| J3501       | 0180117S05       | RF JACK ASSEMBLY          |
| J3502       | 0280519Z02       | NUT, ANTENNA              |
| J400        | 0905505Y04       | CONN ZIF HORIZONTAL       |
| J403        | 0905505Y02       | CONN MALE 20 PIN ZIF      |
| L3200       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3202       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3221       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3270       | 2462587T15       | IND 100NH 5% LOW PRO      |
| L3271       | 2462587Q20       | IND CHIP 2,200NH 20%      |
| L3301       | 2462587T35       | IND CHIP 12NH 5% LOW PRO  |
| L3303       | 2462587T35       | IND CHIP 12NH 5% LOW PRO  |
| L3304       | 2462587T23       | IND CHIP 470NH 5%LOW PRO  |
| L3305       | 2462587T35       | IND CHIP 12NH 5% LOW PRO  |
| L3306       | 2462587T35       | IND CHIP 12NH 5% LOW PRO  |
| L3308       | 2462587T34       | IND CHIP 10NH 5% LOW PRO  |
| L3309       | 2462587N55       | CHIP IND 150 NH 5%        |
| L3312       | 2462587V28       | CHIP IND 33 NH 5% 0805    |
| L3501       | 2413926H09       | IND CHIP 5.6 NH +/- 0.3NH |
| L3503       | 2462587V32       | CHIP IND 68NH 5% 0805     |
| L3504       | 2462587N51       | CHIP IND 68 NH 5%         |
| L3511       | 2462587N44       | CHIP IND 18 NH 5%         |
| L3512       | 2479990B01       | AIR WND COIL/GRN 11.03NH  |
| L3513       | 2479990A02       | AIR WND COIL/GRN 7.66NH   |
| L3515       | 2479990C03       | AIR WND COIL/GRN 13.85NH  |
| L3518       | 2462587N48       | CHIP IND 39 NH 5%         |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| L3519       | 2484657R01       | INDUCTOR BEAD CHIP        |
| L3521       | 2479990A02       | AIR WND COIL/GRN 7.66NH   |
| L3522       | 2479990E01       | COIL AIR WND/GRN 23.75    |
| L3523       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3531       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| L3532       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| L3538       | 2479990M01       | AIR WND COIL/GRN 30.54NH  |
| L3551       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| L3552       | 2479990A02       | AIR WND COIL/GRN 7.66NH   |
| L3701       | 2462587Q42       | IND CHIP 390NH 10%        |
| L3731       | 2462587Q20       | IND CHIP 2,200NH 20%      |
| L3801       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| L3809       | 2462587V27       | CHIP IND 27 NH 5% 0805    |
| L3811       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| L3812       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| L3813       | 2462587Q47       | IND CHIP 1000 NH 10%      |
| L3816       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| L3821       | 2462587N50       | CHIP IND 56 NH 5%         |
| L3822       | 2462587N49       | CHIP IND 47 NH 5%         |
| L3823       | 2462587N49       | CHIP IND 47 NH 5%         |
| L3824       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3825       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| L3826       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L3831       | 2462587N50       | CHIP IND 56 NH 5%         |
| L3832       | 2462587N51       | CHIP IND 68 NH 5%         |
| L3833       | 2462587N50       | CHIP IND 56 NH 5%         |
| L3834       | 2462587N68       | CHIP IND 1000 NH 5%       |
| L400        | 2462587Q42       | IND CHIP 390NH 10%        |
| L401        | 2462587Q42       | IND CHIP 390NH 10%        |
| L410        | 2462587Q42       | IND CHIP 390NH 10%        |
| L411        | 2462587Q42       | IND CHIP 390NH 10%        |
| L505        | 2462587Q42       | IND CHIP 390NH 10%        |
| M701        | 7585651Z01       | PAD, FLEXIBLE             |
| M702        | 7585651Z01       | PAD, FLEXIBLE             |
| M703        | 7585651Z01       | PAD, FLEXIBLE             |
| M704        | 7585651Z01       | PAD, FLEXIBLE             |
| M705        | 7585651Z01       | PAD, FLEXIBLE             |
| M706        | 7585651Z01       | PAD, FLEXIBLE             |
| PB501       | 4080523Z01       | SWITCH, TACT              |
| PB502       | 4080523Z01       | SWITCH, TACT              |
| PB503       | 4080523Z01       | SWITCH, TACT              |
| PB504       | 4080523Z01       | SWITCH, TACT              |
| PB505       | 4080523Z01       | SWITCH, TACT              |
| Q3200       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y  |
| Q3201       | 4880214G02       | TSTR MMBT3904             |
| Q3202       | 4880214G02       | TSTR MMBT3904             |
| Q3270       | 4805218N63       | RF TRANS SOT 323 BFQ67W   |
| Q3301       | 4880214G02       | TSTR MMBT3904             |
| Q3302       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y  |
| Q3501       | 4802245J55       | POWER FIELD EFFECT        |
| Q3561       | 4813824A17       | XSTR PNP40V .2A B=100-300 |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| Q3721       | 4802245J50       | DUAL NPN/PNP UMC5N        |
| Q3801       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y  |
| Q400        | 4809579E18       | MOSFET P-CHAN TP010IT     |
| Q403        | 4880214G02       | TSTR MMBT3904             |
| Q405        | 4802245J54       | UMG5N DIGITAL TRANSIS-TOR |
| Q410        | 4802245J54       | UMG5N DIGITAL TRANSIS-TOR |
| Q416        | 4809579E18       | MOSFET P-CHAN TP010IT     |
| Q417        | 4802245J50       | DUAL NPN/PNP UMC5N        |
| Q502        | 5180159R01       | DUAL TRANS NPNS           |
| Q505        | 4880214G02       | TSTR MMBT3904             |
| R3200       | 0662057M54       | 150 5% 20X40              |
| R3201       | 0662057M82       | 2200 5% 20X40             |
| R3202       | 0662057M90       | 4700 5% 20X40             |
| R3203       | 0662057M98       | 10K 5% 20X40              |
| R3204       | 0662057M26       | 10 5% 20X40               |
| R3205       | 0662057M74       | 1000 5% 20X40             |
| R3206       | 0662057N23       | 100K 5% 20X40             |
| R3207       | 0662057N13       | 39K 5% 20X40              |
| R3208       | 0662057M50       | 100 5% 20X40              |
| R3209       | 0662057M74       | 1000 5% 20X40             |
| R3210       | 0662057M82       | 2200 5% 20X40             |
| R3211       | 0662057M82       | 2200 5% 20X40             |
| R3212       | 0662057M90       | 4700 5% 20X40             |
| R3213       | 0662057M82       | 2200 5% 20X40             |
| R3214       | 0662057M34       | 22 5% 20X 40              |
| R3219       | 0662057M50       | 100 5% 20X40              |
| R3220       | 0662057M90       | 4700 5% 20X40             |
| R3221       | 0662057M50       | 100 5% 20X40              |
| R3224       | 0662057M26       | 10 5% 20X40               |
| R3225       | 0662057M74       | 1000 5% 20X40             |
| R3226       | 0662057M26       | 10 5% 20X40               |
| R3270       | 0662057M74       | 1000 5% 20X40             |
| R3271       | 0662057M42       | 47 5% 20X40               |
| R3272       | 0662057N15       | 47K 5% 20X40              |
| R3273       | 0662057N15       | 47K 5% 20X40              |
| R3274       | 0662057M83       | 2400 5% 20X40             |
| R3275       | 0662057M74       | 1000 5% 20X40             |
| R3276       | 0662057N30       | 200K 5% 20X40             |
| R3303       | 0662057N23       | 100K 5% 20X40             |
| R3304       | 0662057N23       | 100K 5% 20X40             |
| R3305       | 0662057N19       | 68K 5% 20X40              |
| R3306       | 0662057M82       | 2200 5% 20X40             |
| R3307       | 0662057N11       | 33K 5% 20X40              |
| R3308       | 0662057M78       | 1500 5% 20X40             |
| R3309       | 0662057M92       | 5600 5% 20X40             |
| R3310       | 0662057M98       | 10K 5% 20X40              |
| R3311       | 0662057M26       | 10 5% 20X40               |
| R3312       | 0662057M38       | 33 5% 20X40               |
| R3313       | 0662057M34       | 22 5% 20X 40              |

| Circuit Ref | Motorola Part No | Description         |
|-------------|------------------|---------------------|
| R3314       | 0662057M26       | 10 5% 20X40         |
| R3315       | 0662057M62       | 330 5% 20X40        |
| R3316       | 0662057M66       | 470 5% 20X40        |
| R3317       | 0662057N23       | 100K 5% 20X40       |
| R3318       | 0662057M66       | 470 5% 20X40        |
| R3321       | 0662057M54       | 150 5% 20X40        |
| R3322       | 0662057M58       | 220 5% 20X40        |
| R3323       | 0662057M32       | 18 5% 20X40         |
| R3324       | 0662057M58       | 220 5% 20X40        |
| R3501       | 0662057M61       | 300 5% 20X40        |
| R3502       | 0662057M32       | 18 5% 20X40         |
| R3503       | 0662057M61       | 300 5% 20X40        |
| R3505       | 0662057M62       | 330 5% 20X40        |
| R3512       | 0662057A27       | 120 OHMS 5%         |
| R3513       | 0662057A25       | 100 OHMS 5%         |
| R3519       | 0680539Z01       | PWR METAL STRIP RES |
| R3542       | 0662057M92       | 5600 5% 20X40       |
| R3543       | 0662057M50       | 100 5% 20X40        |
| R3544       | 0662057A25       | 100 OHMS 5%         |
| R3545       | 0662057A25       | 100 OHMS 5%         |
| R3546       | 0662057N11       | 33K 5% 20X40        |
| R3547       | 0662057N01       | 12K 5% 20X40        |
| R3548       | 0662057M95       | 7500 55 20X40       |
| R3551       | 0662057M40       | 39 5% 20X40         |
| R3561       | 0662057N01       | 12K 5% 20X40        |
| R3562       | 0662057N11       | 33K 5% 20X40        |
| R3563       | 0662057N33       | 270K 5% 20X40       |
| R3564       | 0662057N35       | 330K 5% 20X40       |
| R3569       | 0662057M92       | 5600 5% 20X40       |
| R3570       | 0662057M98       | 10K 5% 20X40        |
| R3571       | 0662057A27       | 120 OHMS 5%         |
| R3572       | 0662057A27       | 120 OHMS 5%         |
| R3573       | 0662057A27       | 120 OHMS 5%         |
| R3701       | 0662057M50       | 100 5% 20X40        |
| R3703       | 0662057M54       | 150 5% 20X40        |
| R3704       | 0662057M54       | 150 5% 20X40        |
| R3705       | 0662057N11       | 33K 5% 20X40        |
| R3721       | 0662057M66       | 470 5% 20X40        |
| R3722       | 0662057M74       | 1000 5% 20X40       |
| R3723       | 0662057M50       | 100 5% 20X40        |
| R3727       | 0662057N23       | 100K 5% 20X40       |
| R3741       | 0662057M50       | 100 5% 20X40        |
| R3751       | 0662057N30       | 200K 5% 20X40       |
| R3752       | 0662057N35       | 330K 5% 20X40       |
| R3761       | 0662057N15       | 47K 5% 20X40        |
| R3802       | 0662057M50       | 100 5% 20X40        |
| R3803       | 0662057M58       | 220 5% 20X40        |
| R3804       | 0662057M98       | 10K 5% 20X40        |
| R3805       | 0662057N08       | 24K 5% 20X40        |
| R3806       | 0662057M34       | 22 5% 20X 40        |
| R3808       | 0662057M26       | 10 5% 20X40         |

| Circuit Ref | Motorola Part No | Description      |
|-------------|------------------|------------------|
| R3811       | 0662057M50       | 100 5% 20X40     |
| R3816       | 0662057M74       | 1000 5% 20X40    |
| R3817       | 0662057M01       | 0 5% 20X40       |
| R3821       | 0662057M58       | 220 5% 20X40     |
| R3822       | 0662057M42       | 47 5% 20X40      |
| R3823       | 0662057N11       | 33K 5% 20X40     |
| R3824       | 0662057N07       | 22K 5% 20X40     |
| R3825       | 0662057M38       | 33 5% 20X40      |
| R3826       | 0662057M32       | 18 5% 20X40      |
| R3828       | 0662057M50       | 100 5% 20X40     |
| R3829       | 0662057M01       | 0 5% 20X40       |
| R3831       | 0662057M98       | 10K 5% 20X40     |
| R3832       | 0662057N01       | 12K 5% 20X40     |
| R3833       | 0662057M58       | 220 5% 20X40     |
| R3834       | 0662057M42       | 47 5% 20X40      |
| R3835       | 0662057N15       | 47K 5% 20X40     |
| R3836       | 0662057M98       | 10K 5% 20X40     |
| R400        | 0662057N15       | 47K 5% 20X40     |
| R4001       | 0662057M74       | 1000 5% 20X40    |
| R4002       | 0662057M74       | 1000 5% 20X40    |
| R4003       | 0662057M74       | 1000 5% 20X40    |
| R4004       | 0662057M74       | 1000 5% 20X40    |
| R4005       | 0662057M74       | 1000 5% 20X40    |
| R4006       | 0662057M74       | 1000 5% 20X40    |
| R4007       | 0662057M74       | 1000 5% 20X40    |
| R4008       | 0662057M74       | 1000 5% 20X40    |
| R4009       | 0662057M74       | 1000 5% 20X40    |
| R401        | 0662057M01       | 0 5% 20X40       |
| R405        | 0662057M01       | 0 5% 20X40       |
| R406        | 0662057N20       | 75K 5% 20X40     |
| R407        | 0662057N19       | 68K 5% 20X40     |
| R409        | 0662057M98       | 10K 5% 20X40     |
| R410        | 0662057N23       | 100K 5% 20X40    |
| R411        | 0662057M98       | 10K 5% 20X40     |
| R413        | 0662057M01       | 0 5% 20X40       |
| R414        | 0662057V34       | 180K 1% 1/16W    |
| R415        | 0662057V26       | 91K 1% 1/16W     |
| R416        | 0662057N13       | 39K 5% 20X40     |
| R418        | 0662057M01       | 0 5% 20X40       |
| R419        | 0662057M67       | 0 5% 20X40       |
| R420        | 0662057B46       | 10.0 MEG OHMS 5% |
| R421        | 0662057M81       | 2000 5% 20X40    |
| R423        | 0662057N21       | 82K 5% 20X40     |
| R424        | 0662057N12       | 36K 5% 20X40     |
| R425        | 0662057N10       | 30K 5% 20X40     |
| R426        | 0662057N35       | 330K 5% 20X40    |
| R427        | 0662057M84       | 2700 5% 20X40    |
| R428        | 0662057M10       | 2.2 5% 20X40     |
| R429        | 0662057M98       | 10K 5% 20X40     |
| R431        | 0662057N39       | 470K 5% 20X40    |
| R432        | 0662057N16       | 51K 5% 20X40     |

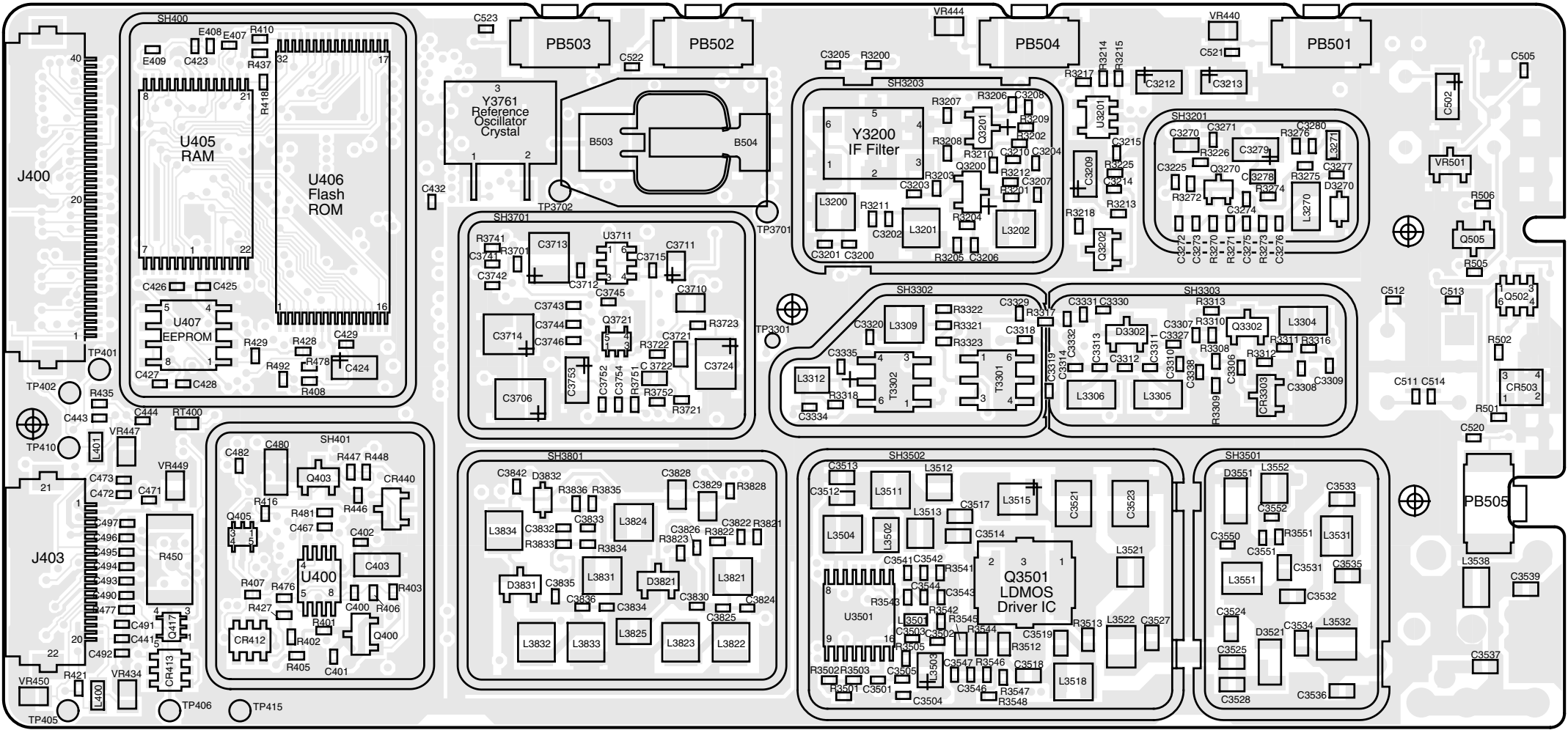
| Circuit Ref | Motorola Part No | Description           |
|-------------|------------------|-----------------------|
| R434        | 0662057M62       | 330 5% 20X40          |
| R435        | 0662057M81       | 2000 5% 20X40         |
| R436        | 0662057M01       | 0 5% 20X40            |
| R445        | 0662057N08       | 24K 5% 20X40          |
| R446        | 0662057N31       | 220K 5% 20X40         |
| R447        | 0662057N51       | 1.5 MEG 5% 20X40      |
| R448        | 0662057N33       | 270K 5% 20X40         |
| R449        | 0662057N08       | 24K 5% 20X40          |
| R450        | 0683962T45       | 68 5-1                |
| R457        | 0662057M98       | 10K 5% 20X40          |
| R460        | 0662057M90       | 4700 5% 20X40         |
| R461        | 0662057M56       | 180 5% 20X40          |
| R462        | 0662057M98       | 10K 5% 20X40          |
| R463        | 0662057M61       | 300 5% 20X40          |
| R471        | 0662057M92       | 5600 5% 20X40         |
| R472        | 0662057M93       | 6200 5% 20X40         |
| R473        | 0662057M26       | 10 5% 20X40           |
| R475        | 0662057M01       | 0 5% 20X40            |
| R476        | 0662057N08       | 24K 5% 20X40          |
| R477        | 0662057M74       | 1000 5% 20X40         |
| R478        | 0662057M98       | 10K 5% 20X40          |
| R481        | 0662057N08       | 24K 5% 20X40          |
| R492        | 0662057M01       | 0 5% 20X40            |
| R499        | 0662057M98       | 10K 5% 20X40          |
| R501        | 0662057M70       | 680 5% 20X40          |
| R502        | 0662057M56       | 180 5% 20X40          |
| R505        | 0662057M98       | 10K 5% 20X40          |
| R506        | 0662057N15       | 47K 5% 20X40          |
| R701        | 0662057N05       | 18K 5% 20X40          |
| R702        | 0662057N05       | 18K 5% 20X40          |
| R703        | 0662057M74       | 1000 5% 20X40         |
| R704        | 0662057N13       | 39K 5% 20X40          |
| R705        | 0662057N13       | 39K 5% 20X40          |
| R706        | 0662057N17       | 56K 5% 20X40          |
| R707        | 0662057M91       | 5100 5% 20X40         |
| R708        | 0662057N41       | 560K 5% 20X40         |
| R709        | 0662057N47       | 1.0 MEG 5% 20X40      |
| R710        | 0662057N39       | 470K 5% 20X40         |
| R716        | 0662057N01       | 12K 5% 20X40          |
| R717        | 0662057M82       | 2200 5% 20X40         |
| RT400       | 0680590Z01       | THERMISTOR_33K        |
| S501        | 4080710Z02       | SWITCH (FREQUENCY)    |
| S502        | 1880619Z01       | POTENTIOMETER, VOLUME |
| SH3201      | 2602023X08       | SHIELD                |
| SH3202      | 2686081B02       | SHIELD                |
| SH3203      | 2686081B03       | SHIELD                |
| SH3301      | 2686081B01       | SHIELD                |
| SH3302      | 2686081B05       | SHIELD                |
| SH3303      | 2686081B06       | SHIELD                |
| SH3501      | 2686081B03       | SHIELD                |
| SH3502      | 2686081B04       | SHIELD                |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| SH3701      | 2680511Z01       | SHIELD SYNTHESIZER         |
| SH3702      | 2680511Z01       | SHIELD SYNTHESIZER         |
| SH3801      | 2680513Z01       | SHIELD VCO TOP             |
| SH3802      | 2680514Z01       | SHIELD VCO BOTTOM/LVZIF    |
| SH400       | 2680505Z01       | CTRL TOP LEFT              |
| SH401       | 2680506Z01       | CTRL TOP RIGHT             |
| SH402       | 2680515Z01       | CTRL BOTTOM LEFT           |
| SH403       | 2680516Z01       | CTRL BTM RIGHT             |
| SH701       | 2680677Z01       | (VOICE STORAGE BOTTOM)     |
| T3301       | 2580541Z01       | BALUN TRANSFORMER          |
| T3302       | 2580541Z01       | BALUN TRANSFORMER          |
| U3201       | 5102463J58       | 3.3V REG IN SOT23-5 PKG    |
| U3220       | 5109632D83       | LVZIF 2.2 H60G 48TQFP      |
| U3501       | 5105109Z67       | IC LDMOS DRIVER VHF/UHF    |
| U3502       | 5185765B01       | IC PWR CONTROL PASS 2.3    |
| U3503       | 5185963A15       | IC TEMP SENSOR 1M50C       |
| U3701       | 5185963A27       | IC AT25016 48 PIN GFP      |
| U3711       | 5105739X05       | IC SOT 5V HI-PRECISION REG |
| U3801       | 5105750U54       | IC PKG DIE VCO BUFFER      |
| U400        | 5102463J40       | REG 3.3V, LP2951CMM-3.3    |
| U404        | 5185963A53       | IC ASFIC CMP TQFP 48 PIN   |
| U405        | 5102463J36       | STATIC_RAM_32KX8           |
| * U406      | 5102463J60       | 512X8 FLASH (AT49LV040)    |
| * U407      | 5102463J64       | 16KX8 SPI SERIAL EEPROM    |
| U409        | 5102226J56       | 68HC11FLO_PASS5 TQFP       |
| U410        | 5102463J57       | REG 3.3V, ILC7062CM-33     |
| U411        | 4802245J54       | UMG5N DIGITAL TRANSIS-TOR  |
| U420        | 5102463J44       | AUDIO AMP TDA8547TS        |
| U700        | 5109152M01       | IC EEPROM ISD3312OE1       |
| U710        | 5102463J52       | 74HC4066D QUAD ANLOG SW    |
| U720        | 5113818A01       | SING SPLY LM2904DR         |
| VR432       | 4805656W08       | DIODE ZENER QUAD           |
| VR433       | 4805656W08       | DIODE ZENER QUAD           |
| VR434       | 4802245J51       | ZENER DIODE; BZX284-C6V8   |
| VR439       | 4880140L15       | 10V ZENER                  |
| VR447       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR448       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR449       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR450       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR483       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR484       | 4802245J53       | ZENER_DIODE; BZX284-C10    |
| VR501       | 4813830A18       | 6.8V 5% 225MWMMBZ5235B_    |
| VR506       | 4802245J51       | ZENER DIODE; BZX284-C6V8   |
| Y3200       | 4802245J43       | MONOLITH/ XTAL FLTR        |
| Y3761       | 4802245J49       | XTAL 16.8MHZ WITH CLIP     |
|             | 8486101B09       | PCB WARIS P VHF PRIME      |

\* Motorola Depot Servicing only

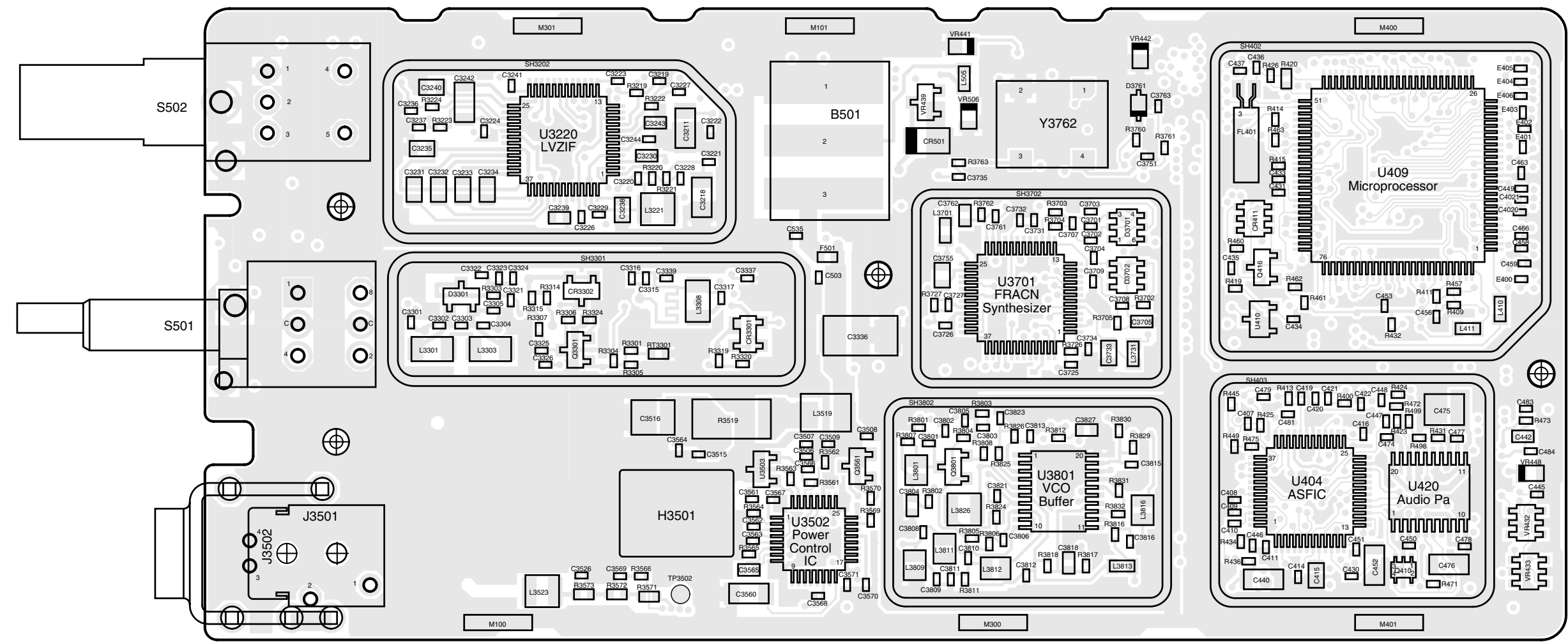
Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

6.0 VHF PCB 8486062B14



ZWG0130072-E

VHF (136-174 MHz) Main Board Top Side



ZWG0130073-D

VHF (136-174 MHz) Main Board Bottom Side



7.0 VHF PCB 8486062B14 Parts List

| Circuit Ref | Motorola Part No | Description                                    |
|-------------|------------------|------------------------------------------------|
| B501        | 0986237A02       | CONN, CONTACT BATT                             |
| B503        | 3980502Z01       | CONTACT, BACKUP B+<br>only GP360, GP380, GP680 |
| B504        | 3980501Z01       | CONTACT, BACKUP B-<br>only GP360, GP380, GP680 |
| C3200       | 2113743N31       | 16.0 PF 5% COG                                 |
| C3203       | 2113743N50       | 100 PF 5% COG                                  |
| C3204       | 2113743L41       | 10000 PF 10%                                   |
| C3205       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3206       | 2113743L41       | 10000 PF 10%                                   |
| C3207       | 2113743N10       | 2.2 PF +/-25PF COG                             |
| C3209       | 2311049A07       | TANT 10% 1.0UF                                 |
| C3210       | 2113743L17       | 1000 PF 10%                                    |
| C3211       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3212       | 2311049A07       | TANT 10% 1.0UF                                 |
| C3213       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3214       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3215       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3218       | 2311049A56       | TAN CHIP A/P 4.7 20 10                         |
| C3219       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3220       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3221       | 2113743L41       | 10000 PF 10%                                   |
| C3222       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3223       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3224       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3225       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3226       | 2113928N01       | CER CHIP 0.1UF 10% 6.3                         |
| C3227       | 2113743L41       | 10000 PF 10%                                   |
| C3228       | 2113743L41       | 10000 PF 10%                                   |
| C3229       | 2113743N50       | 100 PF 5% COG                                  |
| C3230       | 2113740F51       | REEL CL1 +/-30 100                             |
| C3231       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3232       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3233       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3234       | 2180478Z20       | MONOLITHIC CERAMIC (1.0UF)                     |
| C3235       | 2113743A23       | .220UF 10%                                     |
| C3238       | 2113743A24       | .330 UF 10% 16V                                |
| C3239       | 2113743E07       | CER CHIP .022UF                                |
| C3240       | 2113743A23       | .220UF 10%                                     |
| C3241       | 2113743L19       | 1200 PF 10%                                    |
| C3242       | 2109720D14       | CER CHIP LOW DIST 0.1UF                        |
| C3243       | 2113743E07       | CER CHIP .022UF                                |
| C3244       | 2113743L41       | 10000 PF 10%                                   |
| C3270       | 2113743E07       | CER CHIP .022UF                                |
| C3271       | 2113743L05       | 330 PF 10%                                     |
| C3272       | 2113743N18       | 4.7 PF +/-25PF COG                             |
| C3273       | 2113743N26       | 10.0 PF 5% COG                                 |
| C3274       | 2113743N38       | 33.0 PF 5% COG                                 |
| C3275       | 2113743N44       | 56.0 PF 5% COG                                 |
| C3276       | 2113743N42       | 47.0 PF 5% COG                                 |
| C3277       | 2113743N48       | 82.0 PF 5% COG                                 |
| C3278       | 2113743E07       | CER CHIP .022UF                                |
| C3279       | 2311049A40       | GLOBAL TANT 10% 2.2 UF                         |

| Circuit Ref | Motorola Part No | Description            |
|-------------|------------------|------------------------|
| C3280       | 2113743L41       | 10000 PF 10%           |
| C3301       | 2113743N20       | 5.6 PF +/-5PF COG      |
| C3302       | 2113743N54       | 150 PF 5% COG          |
| C3303       | 2113743N30       | 15.0PF 5% COG          |
| C3304       | 2113743N54       | 150 PF 5% COG          |
| C3306       | 2113928N01       | CER CHIP 0.1UF 10% 6.3 |
| C3307       | 2113743N50       | 100 PF 5% COG          |
| C3308       | 2113743L05       | 330 PF 10%             |
| C3309       | 2113928N01       | CER CHIP 0.1UF 10% 6.3 |
| C3311       | 2113743N54       | 150 PF 5% COG          |
| C3312       | 2113743N31       | 16.0 PF 5% COG         |
| C3313       | 2113743N54       | 150 PF 5% COG          |
| C3315       | 2113743N26       | 10.0 PF 5% COG         |
| C3316       | 2113743N14       | 3.3 PF +/-25PF COG     |
| C3317       | 2113743N40       | 39.0 PF 5% COG         |
| C3318       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3320       | 2113743N48       | 82.0 PF 5% COG         |
| C3321       | 2113743L05       | 330 PF 10%             |
| C3322       | 2113743N50       | 100 PF 5% COG          |
| C3323       | 2113743N50       | 100 PF 5% COG          |
| C3324       | 2113743N38       | 33.0 PF 5% COG         |
| C3325       | 2113743L17       | 1000 PF 10%            |
| C3327       | 2113743L05       | 330 PF 10%             |
| C3329       | 2113743L05       | 330 PF 10%             |
| C3330       | 2113743N50       | 100 PF 5% COG          |
| C3331       | 2113743N50       | 100 PF 5% COG          |
| C3332       | 2113743N40       | 39.0 PF 5% COG         |
| C3334       | 2113743N33       | 20.0 PF 5% COG         |
| C3335       | 2113743N34       | 22.0 PF 5% COG         |
| C3336       | 2311049A18       | TANT 10% 10UF          |
| C3337       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3338       | 2113743L09       | 470 PF 10%             |
| C3339       | 2113743N26       | 10.0 PF 5% COG         |
| C3501       | 2113743L05       | 330 PF 10%             |
| C3502       | 2113743N38       | 33.0 PF 5% COG         |
| C3503       | 2113743N38       | 33.0 PF 5% COG         |
| C3504       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3505       | 2113743N38       | 33.0 PF 5% COG         |
| C3508       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3509       | 2113743L05       | 330 PF 10%             |
| C3512       | 2113740F43       | REEL CL1 +/-30 47      |
| C3513       | 2113740F38       | REEL CL1 +/-30 30      |
| C3514       | 2113740F67       | CL1 +/-30 470 5%       |
| C3515       | 2113743L29       | 3300PF 10%             |
| C3516       | 2311049A08       | KEMET CAPS             |
| C3517       | 2113740F51       | REEL CL1 +/-30 100     |
| C3518       | 2113740F63       | CL1 +/-30 330 5%       |
| C3519       | 2113740F35       | REEL CL1 +/-30 22      |
| C3521       | 2111078B51       | RF 220 5 NPO 100V      |
| C3523       | 2111078B44       | RF 120 5 NPO 100V      |
| C3524       | 2113740F33       | REEL CL1 +/-30 18      |
| C3525       | 2113740F27       | REEL CL1 +/-30 10      |
| C3526       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3528       | 2113740F26       | REEL CL1 +/-30 9.1     |
| C3531       | 2113740F34       | REEL CL1 +/-30 20      |
| C3532       | 2113740F47       | REEL CL1 +/-30 68      |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| C3533       | 2113740F24       | REEL CL1+/-30 7.5          |
| C3534       | 2113740F19       | CHIP CAP, CER 4.7PF        |
| C3535       | 2113740F37       | REEL CL1+/-30 27           |
| C3536       | 2113740F31       | REEL CL1 +/-30 15          |
| C3537       | 2113740F33       | REEL CL1 +/-30 18          |
| C3539       | 2113740F21       | REEL CL1+/-30 5.6          |
| C3541       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3542       | 2113743L05       | 330 PF 10%                 |
| C3543       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3544       | 2113743L05       | 330 PF 10%                 |
| C3546       | 2113743L05       | 330 PF 10%                 |
| C3547       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3550       | 2113743N23       | 7.5 PF +/-5PF COG          |
| C3551       | 2113743N46       | 68.0 PF 5% COG             |
| C3552       | 2113743N44       | 56.0 PF 5% COG             |
| C3560       | 2311049A07       | TANT 10% 1.0UF             |
| C3561       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3562       | 2113743L29       | 3300PF 10%                 |
| C3563       | 2113743L29       | 3300PF 10%                 |
| C3564       | 2113743L01       | 220 PF 10%                 |
| C3565       | 2113743E07       | CER CHIP .022UF            |
| C3566       | 2113743N50       | 100 PF 5% COG              |
| C3567       | 2113743L05       | 330 PF 10%                 |
| C3568       | 2113743L29       | 3300PF 10%                 |
| C3569       | 2113743M08       | 22000PF +80-20% Y5V        |
| C3570       | 2113743L05       | 330 PF 10%                 |
| C3571       | 2113743L09       | 470 PF 10%                 |
| C3701       | 2113743L41       | 10000 PF 10%               |
| C3702       | 2113743L41       | 10000 PF 10%               |
| C3703       | 2113743L41       | 10000 PF 10%               |
| C3704       | 2113743L41       | 10000 PF 10%               |
| C3705       | 2113743E20       | CHIP. 10 UF 10%            |
| C3706       | 2311049J11       | CAPACITOR TANT 10% 4.7UF   |
| C3707       | 2113743N34       | 22.0 PF 5% COG             |
| C3708       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3709       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3710       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| C3711       | 2311049A69       | TAN CHIP 10.0 UF 20% 6.3V  |
| C3712       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3713       | 2311049A09       | TANT 2.2 UF 10%            |
| C3714       | 2311049J11       | CAPACITOR TANT 10% 4.7UF   |
| C3715       | 2113743L09       | 470 PF 10%                 |
| C3721       | 2113743E20       | CHIP. 10 UF 10%            |
| C3722       | 2113743E20       | CHIP. 10 UF 10%            |
| C3724       | 2311049A08       | KEMET CAPS                 |
| C3726       | 2113743N24       | 8.2 PF + -.5PF COG         |
| C3727       | 2113743N50       | 100 PF 5% COG              |
| C3731       | 2113743L41       | 10000 PF 10%               |
| C3732       | 2113743L41       | 10000 PF 10%               |
| C3733       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| C3734       | 2113743L41       | 10000 PF 10%               |
| C3742       | 2113743L01       | 220 PF 10%                 |
| C3743       | 2113743L01       | 220 PF 10%                 |
| C3744       | 2113743L01       | 220 PF 10%                 |
| C3745       | 2113743L01       | 220 PF 10%                 |
| C3746       | 2113743L01       | 220 PF 10%                 |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| C3752       | 2113743L17       | 1000 PF 10%                |
| C3753       | 2311049A56       | TAN CHIP A/P 4.7 20 10     |
| C3754       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3755       | 2104993J02       | MONOLITHIC CERAMIC (2.2UF) |
| * C3761     | 2113743N44       | 56.0 PF 5% COG             |
| * C3762     | 2113740F63       | CL1 +/-30 330 5%           |
| * C3763     | 2113743N08       | 1.6 PF +/-25PF COG         |
| C3801       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3803       | 2113743L17       | 1000 PF 10%                |
| C3804       | 2113743E20       | CHIP. 10 UF 10%            |
| C3805       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3806       | 2113743N50       | 100 PF 5% COG              |
| C3808       | 2113743N30       | 15.0PF 5% COG              |
| C3809       | 2113743N36       | 27.0 PF 5% COG             |
| C3811       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3812       | 2113743M24       | 100000 PF +80-20% Y5V      |
| C3813       | 2113743L41       | 10000 PF 10%               |
| C3815       | 2113743L17       | 1000 PF 10%                |
| C3816       | 2113743N22       | 6.8 PF +/-5PF COG          |
| C3818       | 2113743E07       | CER CHIP .022UF            |
| C3821       | 2113743L41       | 10000 PF 10%               |
| C3822       | 2113743L17       | 1000 PF 10%                |
| C3823       | 2113743L41       | 10000 PF 10%               |
| C3824       | 2113743N44       | 56.0 PF 5% COG             |
| C3825       | 2113743N30       | 15.0PF 5% COG              |
| C3826       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3827       | 2113743E07       | CER CHIP .022UF            |
| C3828       | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C3829       | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C3830       | 2113743N46       | 68.0 PF 5% COG             |
| C3832       | 2113743L17       | 1000 PF 10%                |
| C3833       | 2113743N18       | 4.7 PF +/-25PF COG         |
| C3834       | 2113743N44       | 56.0 PF 5% COG             |
| C3835       | 2113743N22       | 6.8 PF +/-5PF COG          |
| C3836       | 2113743N30       | 15.0PF 5% COG              |
| C3842       | 2113743L17       | 1000 PF 10%                |
| C400        | 2113743L41       | 10000 PF 10%               |
| C401        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C402        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C403        | 2113928D08       | CERAMIC CHIP 10.0UF        |
| C407        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C408        | 2113743N50       | 100 PF 5% COG              |
| C409        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C410        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C411        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C414        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C415        | 2109720D01       | CER CHIP LOW DIS T .01UF   |
| C416        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C419        | 2113743L41       | 10000 PF 10%               |
| C420        | 2113743L41       | 10000 PF 10%               |
| C421        | 2113928N01       | CER CHIP 0.1UF 10% 6.3     |
| C422        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C423        | 2113743N50       | 100 PF 5% COG              |
| C424        | 2311049A59       | TANT CHIP A/P 10UF 10% 6V  |
| C425        | 2113743M24       | 100000 PF +80-20% Y5V      |
| C426        | 2113743N50       | 100 PF 5% COG              |



| Circuit Ref | Motorola Part No | Description                                       |
|-------------|------------------|---------------------------------------------------|
| C427        | 2113743N50       | 100 PF 5% COG                                     |
| C428        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C429        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C430        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C431        | 2113743N50       | 100 PF 5% COG                                     |
| C433        | 2113743L41       | 10000 PF 10%                                      |
| C434        | 2113743M24       | 100000 PF +80-20% Y5V<br>only GP360, GP380, GP680 |
| C435        | 2113743M24       | 100000 PF +80-20% Y5V                             |
| C436        | 2113743N34       | 22.0 PF 5% COG<br>only GP360, GP380, GP680        |
| C437        | 2113743N34       | 22.0 PF 5% COG<br>only GP360, GP380, GP680        |
| C440        | 2113743G26       | 4.7UF 16V + 80-20%                                |
| C441        | 2113743L09       | 470 PF 10%                                        |
| C442        | 2113743E20       | CHIP. 10 UF 10%                                   |
| C443        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C444        | 2113743N50       | 100 PF 5% COG                                     |
| C445        | 2113743L09       | 470 PF 10%                                        |
| C446        | 2113743L09       | 470 PF 10%                                        |
| C447        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C448        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C449        | 2113743N50       | 100 PF 5% COG                                     |
| C451        | 2113743M08       | 22000PF +80-20% Y5V                               |
| C452        | 2113743G26       | 4.7UF 16V + 80-20%                                |
| C453        | 2113743N50       | 100 PF 5% COG                                     |
| C456        | 2113743N50       | 100 PF 5% COG                                     |
| C458        | 2113743N50       | 100 PF 5% COG                                     |
| C459        | 2113743N50       | 100 PF 5% COG                                     |
| C463        | 2113743N50       | 100 PF 5% COG                                     |
| C466        | 2113743N50       | 100 PF 5% COG                                     |
| C467        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C471        | 2113743L09       | 470 PF 10%                                        |
| C472        | 2113743L09       | 470 PF 10%                                        |
| C473        | 2113743L09       | 470 PF 10%                                        |
| C474        | 2113743L41       | 10000 PF 10%                                      |
| C475        | 2113743H14       | 10.0 UF 16V +80-20%                               |
| C476        | 2113928D08       | CERAMIC CHIP 10.0UF                               |
| C477        | 2113743L17       | 1000 PF 10%                                       |
| C478        | 2113743L17       | 1000 PF 10%                                       |
| C479        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C480        | 2113928D08       | CERAMIC CHIP 10.0UF                               |
| C481        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C482        | 2113928N01       | CER CHIP 0.1UF 10% 6.3                            |
| C483        | 2113743L09       | 470 PF 10%                                        |
| C484        | 2113743L09       | 470 PF 10%                                        |
| C490        | 2113743L09       | 470 PF 10%                                        |
| C491        | 2113743L09       | 470 PF 10%                                        |
| C492        | 2113743L09       | 470 PF 10%                                        |
| C493        | 2113743N50       | 100 PF 5% COG                                     |
| C494        | 2113743N50       | 100 PF 5% COG                                     |
| C495        | 2113743L09       | 470 PF 10%                                        |
| C496        | 2113743L09       | 470 PF 10%                                        |
| C497        | 2113743L09       | 470 PF 10%                                        |
| C4020       | 2113743L17       | 1000PF 10%<br>Placed on PCB 8486062B14 only       |

| Circuit Ref | Motorola Part No | Description                                                 |
|-------------|------------------|-------------------------------------------------------------|
| C4021       | 2113743L17       | 1000PF 10%<br>Placed on PCB 8486062B14 only                 |
| C502        | 2311049A05       | TANT 10% 0.47UF                                             |
| C503        | 2113743N50       | 100 PF 5% COG                                               |
| C505        | 2113743N50       | 100 PF 5% COG                                               |
| C511        | 2113743N50       | 100 PF 5% COG                                               |
| C512        | 2113743N50       | 100 PF 5% COG                                               |
| C513        | 2113743N50       | 100 PF 5% COG                                               |
| C514        | 2113743N50       | 100 PF 5% COG                                               |
| C520        | 2113743L41       | 10000 PF 10%                                                |
| C521        | 2113743L41       | 10000 PF 10%                                                |
| C522        | 2113743L41       | 10000 PF 10%                                                |
| C523        | 2113743L41       | 10000 PF 10%                                                |
| C535        | 2113743L17       | 1000 PF 10%                                                 |
| CR3301      | 4802245J42       | RING QUAD SOT-143 PKG                                       |
| CR3302      | 4805129M96       | DIODE SMBV1032                                              |
| CR3303      | 4880154K03       | SOT MMBD353 DUAL SCHKY                                      |
| CR411**     | 4802245J47       | SCHOTTKY BARRIER(RB471E)                                    |
| CR412**     | 4802245J47       | SCHOTTKY BARRIER(RB471E)                                    |
| CR413**     | 4802245J47       | SCHOTTKY BARRIER(RB471E)                                    |
| CR411***    | 4802245J62       | **Placed on PCB 8486062B12 only<br>SCHOTTKY BARRIER(RB731U) |
| CR412***    | 4802245J62       | SCHOTTKY BARRIER(RB731U)                                    |
| CR413***    | 4802245J62       | SCHOTTKY BARRIER(RB731U)                                    |
| CR440       | 4813833C02       | ***Placed on PCB 8486062B14 only<br>DUAL 70V '5B' COMM CATH |
| CR501       | 4880107R01       | RECTIFIER                                                   |
| CR503       | 4805729G49       | LED RED/YEL                                                 |
| D3270       | 4862824C01       | VARACTOR                                                    |
| D3301       | 4802081B58       | DUAL SILCON (VARICAP)                                       |
| D3302       | 4802081B58       | DUAL SILCON (VARICAP)                                       |
| D3521       | 4880973Z02       | PIN DIODE                                                   |
| D3551       | 4880973Z02       | PIN DIODE                                                   |
| D3701       | 4802233J09       | TRIPLE SOT25-RH                                             |
| D3702       | 4802233J09       | TRIPLE SOT25-RH                                             |
| * D3761     | 4862824C03       | VARACTOR                                                    |
| D3821       | 4805649Q13       | VCTR ISV 228                                                |
| D3831       | 4805649Q13       | VCTR ISV 228                                                |
| D3832       | 4862824C01       | VARACTOR                                                    |
| E400        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E401        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E402        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E403        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E404        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E405        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E406        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E407        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E408        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| E409        | 2480640Z01       | C/IND BK1005HM471 BEAD                                      |
| F501        | 6580542Z01       | FUSE CHIP SMT TR/1608FF 3A                                  |
| FL401       | 4870368G02       | CLOCK OSC XTAL<br>only GP360, GP380, GP680                  |
| H3501       | 2680499Z01       | HEAT SPREADER                                               |
| J3501       | 0180117S05       | RF JACK ASSEMBLY                                            |
| J3502       | 0280519Z02       | NUT, ANTENNA                                                |
| J400        | 0905505Y04       | CONN ZIF 40Pin                                              |

| Circuit Ref | Motorola Part No | Description                          |
|-------------|------------------|--------------------------------------|
| J403        | 0905505Y02       | not in GP320<br>CONN ZIF MALE 20 PIN |
| L3200       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3202       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3221       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3270       | 2462587T15       | IND CHIP 100NH 5% LOW PRO            |
| L3271       | 2462587Q20       | IND CHIP 2,200NH 20%                 |
| L3301       | 2462587T35       | IND CHIP 12NH 5% LOW PRO             |
| L3303       | 2462587T35       | IND CHIP 12NH 5% LOW PRO             |
| L3304       | 2462587T23       | IND CHIP 470NH 5% LOW PRO            |
| L3305       | 2462587T35       | IND CHIP 12NH 5% LOW PRO             |
| L3306       | 2462587T35       | IND CHIP 12NH 5% LOW PRO             |
| L3308       | 2462587T34       | IND CHIP 10NH 5% LOW PRO             |
| L3309       | 2462587N55       | CHIP IND 150 NH 5%                   |
| L3312       | 2462587V28       | CHIP IND 33 NH 5% 0805               |
| L3501       | 2413926H09       | IND CHIP 5.6 NH +/- 0.3NH            |
| L3503       | 2462587V32       | CHIP IND 68NH 5% 0805                |
| L3504       | 2462587N51       | CHIP IND 68 NH 5%                    |
| L3511       | 2462587N44       | CHIP IND 18 NH 5%                    |
| L3512       | 2479990B01       | AIR WOUND GREEN 11.03NH              |
| L3513       | 2479990A02       | AIR WOUND GREEN 7.66NH               |
| L3515       | 2479990C03       | AIR WOUND GREEN 13.85NH              |
| L3518       | 2462587N48       | CHIP IND 39 NH 5%                    |
| L3519       | 2484657R01       | INDUCTOR BEAD CHIP                   |
| L3521       | 2479990A02       | AIR WOUND GREEN 7.66NH               |
| L3522       | 2479990E01       | COIL AIR WOUND GREEN 23.75           |
| L3523       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3531       | 2479990N01       | AIR WOUND GREEN 43.67NH              |
| L3532       | 2479990N01       | AIR WOUND GREEN 43.67NH              |
| L3538       | 2479990M01       | AIR WOUND GREEN 30.54NH              |
| L3551       | 2479990N01       | AIR WOUND GREEN 43.67NH              |
| L3552       | 2479990A02       | AIR WOUND GREEN 7.66NH               |
| L3701       | 2462587Q42       | IND CHIP 390NH 10%                   |
| L3731       | 2462587Q20       | IND CHIP 2,200NH 20%                 |
| L3801       | 2462587V34       | CHIP IND 100NH 5% 0805               |
| L3809       | 2462587V27       | CHIP IND 27 NH 5% 0805               |
| L3811       | 2462587V34       | CHIP IND 100NH 5% 0805               |
| L3812       | 2462587V34       | CHIP IND 100NH 5% 0805               |
| L3813       | 2462587Q47       | IND CHIP 1000 NH 10%                 |
| L3816       | 2462587V34       | CHIP IND 100NH 5% 0805               |
| L3821       | 2462587N50       | CHIP IND 56 NH 5%                    |
| L3822       | 2462587N49       | CHIP IND 47 NH 5%                    |
| L3823       | 2462587N49       | CHIP IND 47 NH 5%                    |
| L3824       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3825       | 2462587V34       | CHIP IND 100NH 5%                    |
| L3826       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L3831       | 2462587N50       | CHIP IND 56 NH 5%                    |
| L3832       | 2462587N51       | CHIP IND 68 NH 5%                    |
| L3833       | 2462587N50       | CHIP IND 56 NH 5%                    |
| L3834       | 2462587N68       | CHIP IND 1000 NH 5%                  |
| L400        | 2462587Q42       | IND CHIP 390NH 10%                   |
| L401        | 2462587Q42       | IND CHIP 390NH 10%                   |
| L410        | 2462587Q42       | IND CHIP 390NH 10%                   |
| L411        | 2462587Q42       | IND CHIP 390NH 10%                   |
| L505        | 2462587Q42       | IND CHIP 390NH 10%                   |
| PB501       | 4080523Z01       | SWITCH, TACT                         |

| Circuit Ref | Motorola Part No | Description                                       |
|-------------|------------------|---------------------------------------------------|
| PB502       | 4080523Z01       | SWITCH, TACT                                      |
| PB503       | 4080523Z01       | SWITCH, TACT<br>not in GP320                      |
| PB504       | 4080523Z01       | SWITCH, TACT                                      |
| PB505       | 4080523Z01       | SWITCH, TACT<br>not in GP320                      |
| Q3200       | 4813827A07       | TSTR NPN SML SIG<br>MMBR941LT1                    |
| Q3201       | 4880214G02       | TSTR MMBT3904                                     |
| Q3202       | 4880214G02       | TSTR MMBT3904                                     |
| Q3270       | 4805218N63       | RF TRANS SOT 323 Bfq67W                           |
| Q3301       | 4880214G02       | TSTR MMBT3904                                     |
| Q3302       | 4813827A07       | TSTR NPN MMBR941LT1                               |
| Q3501       | 4802245J55       | TSTR POWER FIELD EFFECT                           |
| Q3561       | 4813824A17       | XSTR PNP40V .2A B=100-300                         |
| Q3721       | 4802245J50       | TSTR DUAL NPN/PNP UMC5N                           |
| Q3801       | 4813827A07       | TSTR NPN MMBR941LT1                               |
| Q400        | 4809579E18       | MOSFET P-CHAN TP010IT                             |
| Q403        | 4880214G02       | TSTR MMBT3904                                     |
| Q405        | 4802245J54       | UMG5N DIGITAL TRANSISTOR                          |
| Q410        | 4802245J54       | UMG5N DIGITAL TRANSISTOR                          |
| Q416        | 4809579E18       | MOSFET P-CHAN TP010IT<br>only GP360, GP380, GP680 |
| Q417        | 4802245J50       | TSTR DUAL NPN/PNP UMC5N                           |
| Q502        | 5180159R01       | DUAL TRANS NPNS                                   |
| Q505        | 4880214G02       | TSTR MMBT3904                                     |
| R3200       | 0662057M54       | 150 5% 20X40                                      |
| R3201       | 0662057M82       | 2200 5% 20X40                                     |
| R3202       | 0662057M90       | 4700 5% 20X40                                     |
| R3203       | 0662057M98       | 10K 5% 20X40                                      |
| R3204       | 0662057M26       | 10 5% 20X40                                       |
| R3205       | 0662057M74       | 1000 5% 20X40                                     |
| R3206       | 0662057N23       | 100K 5% 20X40                                     |
| R3207       | 0662057N13       | 39K 5% 20X40                                      |
| R3208       | 0662057M50       | 100 5% 20X40                                      |
| R3209       | 0662057M74       | 1000 5% 20X40                                     |
| R3210       | 0662057M82       | 2200 5% 20X40                                     |
| R3211       | 0662057M82       | 2200 5% 20X40                                     |
| R3212       | 0662057M90       | 4700 5% 20X40                                     |
| R3213       | 0662057M82       | 2200 5% 20X40                                     |
| R3214       | 0662057M34       | 22 5% 20X 40                                      |
| R3219       | 0662057M50       | 100 5% 20X40                                      |
| R3220       | 0662057M90       | 4700 5% 20X40                                     |
| R3221       | 0662057M50       | 100 5% 20X40                                      |
| R3224       | 0662057M26       | 10 5% 20X40                                       |
| R3225       | 0662057M74       | 1000 5% 20X40                                     |
| R3226       | 0662057M26       | 10 5% 20X40                                       |
| R3270       | 0662057M74       | 1000 5% 20X40                                     |
| R3271       | 0662057M42       | 47 5% 20X40                                       |
| R3272       | 0662057N15       | 47K 5% 20X40                                      |
| R3273       | 0662057N15       | 47K 5% 20X40                                      |
| R3274       | 0662057M83       | 2400 5% 20X40                                     |
| R3275       | 0662057M74       | 1000 5% 20X40                                     |
| R3276       | 0662057N30       | 200K 5% 20X40                                     |
| R3303       | 0662057N23       | 100K 5% 20X40                                     |
| R3304       | 0662057N23       | 100K 5% 20X40                                     |



| Circuit Ref | Motorola Part No | Description       |
|-------------|------------------|-------------------|
| R3305       | 0662057N19       | 68K 5% 20X40      |
| R3306       | 0662057M82       | 2200 5% 20X40     |
| R3307       | 0662057N11       | 33K 5% 20X40      |
| R3308       | 0662057M78       | 1500 5% 20X40     |
| R3309       | 0662057M92       | 5600 5% 20X40     |
| R3310       | 0662057M98       | 10K 5% 20X40      |
| R3311       | 0662057M26       | 10 5% 20X40       |
| R3312       | 0662057M38       | 33 5% 20X40       |
| R3313       | 0662057M34       | 22 5% 20X 40      |
| R3314       | 0662057M26       | 10 5% 20X40       |
| R3315       | 0662057M62       | 330 5% 20X40      |
| R3316       | 0662057M66       | 470 5% 20X40      |
| R3317       | 0662057N23       | 100K 5% 20X40     |
| R3318       | 0662057M66       | 470 5% 20X40      |
| R3321       | 0662057M54       | 150 5% 20X40      |
| R3322       | 0662057M58       | 220 5% 20X40      |
| R3323       | 0662057M32       | 18 5% 20X40       |
| R3324       | 0662057M58       | 220 5% 20X40      |
| R3501       | 0662057M61       | 300 5% 20X40      |
| R3502       | 0662057M32       | 18 5% 20X40       |
| R3503       | 0662057M61       | 300 5% 20X40      |
| R3505       | 0662057M62       | 330 5% 20X40      |
| R3512       | 0662057A27       | 120 OHMS 5%       |
| R3513       | 0662057A25       | 100 OHMS 5%       |
| R3519       | 0680539Z01       | POWER METAL STRIP |
| R3542       | 0662057M92       | 5600 5% 20X40     |
| R3543       | 0662057M50       | 100 5% 20X40      |
| R3544       | 0662057A25       | 100 OHMS 5%       |
| R3545       | 0662057A25       | 100 OHMS 5%       |
| R3546       | 0662057N11       | 33K 5% 20X40      |
| R3547       | 0662057N01       | 12K 5% 20X40      |
| R3548       | 0662057M95       | 7500 55 20X40     |
| R3551       | 0662057M40       | 39 5% 20X40       |
| R3561       | 0662057N01       | 12K 5% 20X40      |
| R3562       | 0662057N11       | 33K 5% 20X40      |
| R3563       | 0662057N33       | 270K 5% 20X40     |
| R3564       | 0662057N35       | 330K 5% 20X40     |
| R3569       | 0662057M92       | 5600 5% 20X40     |
| R3570       | 0662057M98       | 10K 5% 20X40      |
| R3571       | 0662057A27       | 120 OHMS 5%       |
| R3572       | 0662057A27       | 120 OHMS 5%       |
| R3573       | 0662057A27       | 120 OHMS 5%       |
| R3701       | 0662057M50       | 100 5% 20X40      |
| R3703       | 0662057M54       | 150 5% 20X40      |
| R3704       | 0662057M54       | 150 5% 20X40      |
| R3705       | 0662057N11       | 33K 5% 20X40      |
| R3721       | 0662057M66       | 470 5% 20X40      |
| R3722       | 0662057M74       | 1000 5% 20X40     |
| R3723       | 0662057M50       | 100 5% 20X40      |
| R3727       | 0662057N23       | 100K 5% 20X40     |
| R3741       | 0662057M50       | 100 5% 20X40      |
| R3751       | 0662057N30       | 200K 5% 20X40     |
| R3752       | 0662057N35       | 330K 5% 20X40     |
| R3761       | 0662057N15       | 47K 5% 20X40      |
| R3802       | 0662057M50       | 100 5% 20X40      |
| R3803       | 0662057M58       | 220 5% 20X40      |

| Circuit Ref | Motorola Part No | Description                |
|-------------|------------------|----------------------------|
| R3804       | 0662057M98       | 10K 5% 20X40               |
| R3805       | 0662057N08       | 24K 5% 20X40               |
| R3806       | 0662057M34       | 22 5% 20X 40               |
| R3808       | 0662057M26       | 10 5% 20X40                |
| R3811       | 0662057M50       | 100 5% 20X40               |
| R3816       | 0662057M74       | 1000 5% 20X40              |
| R3817       | 0662057M01       | 0 5% 20X40                 |
| R3821       | 0662057M58       | 220 5% 20X40               |
| R3822       | 0662057M42       | 47 5% 20X40                |
| R3823       | 0662057N11       | 33K 5% 20X40               |
| R3824       | 0662057N07       | 22K 5% 20X40               |
| R3825       | 0662057M38       | 33 5% 20X40                |
| R3826       | 0662057M32       | 18 5% 20X40                |
| R3828       | 0662057M50       | 100 5% 20X40               |
| R3829       | 0662057M01       | 0 5% 20X40                 |
| R3831       | 0662057M98       | 10K 5% 20X40               |
| R3832       | 0662057N01       | 12K 5% 20X40               |
| R3833       | 0662057M58       | 220 5% 20X40               |
| R3834       | 0662057M42       | 47 5% 20X40                |
| R3835       | 0662057N15       | 47K 5% 20X40               |
| R3836       | 0662057M98       | 10K 5% 20X40               |
| R400        | 0662057N15       | 47K 5% 20X40               |
| R401        | 0662057M01       | 0 5% 20X40                 |
| R405        | 0662057M01       | 0 5% 20X40                 |
| R406        | 0662057N20       | 75K 5% 20X40               |
| R407        | 0662057N19       | 68K 5% 20X40               |
| R409        | 0662057M98       | 10K 5% 20X40               |
| R410        | 0662057N23       | 100K 5% 20X40              |
| R411        | 0662057M98       | 10K 5% 20X40               |
| R413        | 0662057M01       | 0 5% 20X40                 |
| R414        | 0662057V34       | 180K 1% 1/16W              |
| R415        | 0662057V26       | 91K 1% 1/16W               |
| R416        | 0662057N13       | 39K 5% 20X40               |
| R418        | 0662057M01       | 0 5% 20X40                 |
| R419        | 0662057M67       | 0 5% 20X40                 |
|             |                  | only GP360, GP380, GP680   |
| R420        | 0662057B46       | 10.0 MEG OHMS 5%           |
|             |                  | only GP360, GP380, GP680   |
| R421        | 0662057M81       | 2000 5% 20X40              |
| R423        | 0662057N21       | 82K 5% 20X40               |
| R424        | 0662057N12       | 36K 5% 20X40               |
| R425        | 0662057N10       | 30K 5% 20X40               |
| R426        | 0662057N35       | 330K 5% 20X40              |
|             |                  | only GP360, GP380, GP680   |
| R427        | 0662057M84       | 2700 5% 20X40              |
| R428        | 0662057M10       | 2.2 5% 20X40               |
| R429        | 0662057M98       | 10K 5% 20X40               |
| R431        | 0662057N39       | 470K 5% 20X40              |
| R432        | 0662057N16       | 51K 5% 20X40               |
| R434        | 0662057M62       | 330 5% 20X40               |
| R435        | 0662057M81       | 2000 5% 20X40              |
| R436        | 0662057M01       | 0 5% 20X40                 |
| R445        | 0662057N08       | 24K 5% 20X40               |
| R446        | 0662057N31       | RES, CHIP 220K 5% 20X40    |
| R447        | 0662057N51       | RES, CHIP 1.5 MEG 5% 20X40 |
| R448        | 0662057N33       | 270K 5% 20X40              |

| Circuit Ref | Motorola Part No | Description                   |
|-------------|------------------|-------------------------------|
| R449        | 0662057N08       | 24K 5% 20X40                  |
| R450        | 0683962T45       | 68 5-1                        |
| R457        | 0662057M98       | 10K 5% 20X40                  |
| R460        | 0662057M90       | 4700 5% 20X40                 |
| R461        | 0662057M56       | 180 5% 20X40                  |
|             |                  | only GP360, GP380, GP680      |
| R462        | 0662057M98       | 10K 5% 20X40                  |
|             |                  | only GP360, GP380, GP680      |
| R463        | 0662057M61       | 300 5% 20X40                  |
| R471        | 0662057M92       | 5600 5% 20X40                 |
| R472        | 0662057M93       | 6200 5% 20X40                 |
| R473        | 0662057M26       | 10 5% 20X40                   |
| R475        | 0662057M01       | 0 5% 20X40                    |
| R476        | 0662057N08       | 24K 5% 20X40                  |
| R477        | 0662057M74       | 1000 5% 20X40                 |
| R478        | 0662057M98       | 10K 5% 20X40                  |
| R481        | 0662057N08       | 24K 5% 20X40                  |
| R492        | 0662057M01       | 0 5% 20X40                    |
| R498        | 0662057M98       | 10K 5% 20X40                  |
|             |                  | Placed on PCB 8486062B14 only |
| R499        | 0662057M98       | 10K 5% 20X40                  |
|             |                  | Placed on PCB 8486062B14 only |
| R501        | 0662057M70       | 680 5% 20X40                  |
| R502        | 0662057M56       | 180 5% 20X40                  |
| R505        | 0662057M98       | 10K 5% 20X40                  |
| R506        | 0662057N15       | 47K 5% 20X40                  |
| RT400       | 0680590Z01       | THERMISTOR_33K                |
| S501        | 4080710Z01       | SWITCH (FREQUENCY)            |
|             |                  | only GP340, GP640             |
| S501        | 4080710Z02       | SWITCH (FREQUENCY)            |
|             |                  | only GP360, GP380, GP680      |
| S502        | 1880619Z01       | POTENTIOMETER, VOLUME         |
| SH3201      | 2602023X08       | SHIELD                        |
| SH3202      | 2686081B02       | SHIELD                        |
| SH3203      | 2686081B03       | SHIELD                        |
| SH3301      | 2686081B01       | SHIELD                        |
| SH3302      | 2686081B05       | SHIELD                        |
| SH3303      | 2686081B06       | SHIELD                        |
| SH3501      | 2686081B03       | SHIELD                        |
| SH3502      | 2686081B04       | SHIELD                        |
| SH3701      | 2680511Z01       | SHIELD SYNTHESIZER            |
| SH3702      | 2680511Z01       | SHIELD SYNTHESIZER            |
| SH3801      | 2680513Z01       | SHIELD VCO TOP                |
| SH3802      | 2680514Z01       | SHIELD VCO BOTTOM/LVZIF       |
| SH400       | 2680505Z01       | CONTROLLER TOP LEFT           |
| SH401       | 2680506Z01       | CONTROLLER TOP RIGHT          |
| SH402       | 2680515Z01       | CONTROLLER BOTTOM LEFT        |
| SH403       | 2680516Z01       | CONTROLLER BTM RIGHT          |
| T3301       | 2580541Z01       | BALUN TRANSFORMER             |
| T3302       | 2580541Z01       | BALUN TRANSFORMER             |
| U3201       | 5102463J58       | 3.3V REG IN SOT23-5 PKG       |
| U3220       | 5109632D83       | IC LVZIF 2.2 H60G 48TQFP      |
| U3501       | 5105109Z67       | IC LDMOS DRIVER VHF/UHF       |
| U3502       | 5185765B01       | IC POWER CONTROL PASS 2.3     |
| U3503       | 5185963A15       | IC TEMP SENSOR 1M50C          |
| U3701       | 5185963A27       | IC FRACN AT25016 48 PIN GFP   |

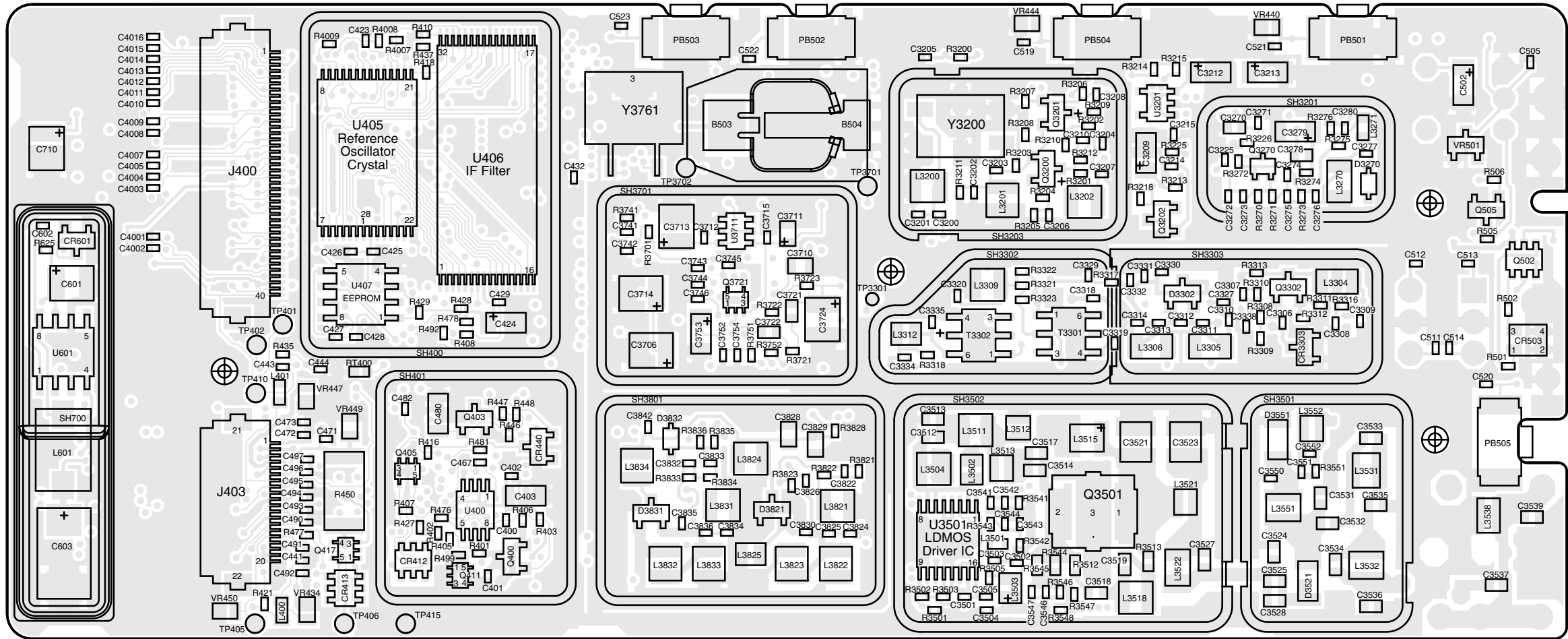
| Circuit Ref | Motorola Part No          | Description                 |
|-------------|---------------------------|-----------------------------|
| U3711       | 5105739X05                | IC 5V REGULATOR             |
| U3801       | 5105750U54                | IC VCO BUFFER               |
| U400        | 5102463J40                | REG 3.3V, LP2951CMM-3.3     |
| U404        | 5185963A53                | IC ASFIC CMP TQFP 48PIN PKG |
| U405        | 5102463J36                | STATIC_RAM_32KX8            |
| * U406      | 5102463J60                | IC 512KX8 FLASH ROM         |
| * U407      | 5102463J64                | 16KX8 SPI SERIAL EEPROM     |
| U409        | 5102226J56                | 68HC11FLO_PASS5 TQFP        |
| U410        | 5102463J57                | REG 3.3V, ILC7062CM-33      |
|             |                           | only GP360, GP380, GP680    |
| U420        | 5102463J44                | AUDIO AMPLIFIER TDA8547TS   |
| VR432       | 4805656W08                | ZENER QUAD                  |
| VR433       | 4805656W08                | ZENER QUAD                  |
| VR434       | 4802245J51                | ZENER DIODE; BZX284-C6V8"   |
| VR439       | 4880140L15                | 10V ZENER                   |
| VR447       | 4802245J53                | ZENER_DIODE; BZX284-C10     |
| VR448       | 4802245J53                | ZENER_DIODE; BZX284-C10     |
| VR449       | 4802245J53                | ZENER_DIODE; BZX284-C10     |
| VR450       | 4802245J53                | ZENER_DIODE; BZX284-C10     |
| VR501       | 4813830A18                | 6.8V 5% 225MWMMBZ5235B_     |
| VR506       | 4802245J51                | ZENER DIODE; BZX284-C6V8    |
| Y3200       | 9186153B01                | XTAL FILTER, SMD 45.1MHz    |
| Y3761       | 4802245J49                | CRYSTL 16.8MHZ WITH CLIP    |
|             | 8486062B12/<br>8486062B14 | PCB WARIS VHF PREFERRED     |

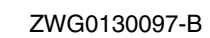
\* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.



8.0 VHF PCB 8486101B10





### VHF (136-174 MHz) Main Board Bottom Side

9.0 VHF PCB 8486101B10 Parts List (GP1280)

| Circuit Ref | Motorola Part No | Description              |
|-------------|------------------|--------------------------|
| B501        | 0986237A01       | CONN, CONTACT BATTERY    |
| B503        | 3980502Z01       | CONTACT, BACKUP B+       |
| B504        | 3980501Z01       | CONTACT, BACKUP B-       |
| C3200       | 2113743N31       | 16.0 PF 5%               |
| C3203       | 2113743N50       | 100 PF 5%                |
| C3204       | 2113743L41       | 10000 PF 10%             |
| C3205       | 2113928N01       | 0.1UF 10% 6.3            |
| C3206       | 2113743L41       | 10000 PF 10%             |
| C3207       | 2113743N10       | 2.2 PF +/-25PF           |
| C3209       | 2311049A07       | TANT 10% 1.0UF           |
| C3210       | 2113743L17       | 1000 PF 10%              |
| C3211       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3212       | 2311049A07       | TANT 10% 1.0UF           |
| C3213       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3214       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3215       | 2113743N26       | 10.0 PF 5%               |
| C3218       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3219       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3220       | 2113743N26       | 10.0 PF 5%               |
| C3221       | 2113743L41       | 10000 PF 10%             |
| C3222       | 2113928N01       | CERAMIC CHIP 10.0UF      |
| C3223       | 2113928N01       | 0.1UF 10% 6.3            |
| C3224       | 2113928N01       | 0.1UF 10% 6.3            |
| C3225       | 2113928N01       | 0.1UF 10% 6.3            |
| C3226       | 2113928N01       | 0.1UF 10% 6.3            |
| C3227       | 2113743L41       | 10000 PF 10%             |
| C3228       | 2113743L41       | 10000 PF 10%             |
| C3229       | 2113743N50       | 100 PF 5%                |
| C3230       | 2113740F51       | REEL CL1 +/-30 100       |
| C3231       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3232       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3233       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3234       | 2180478Z20       | MONOLITH CERAMIC (1.0UF) |
| C3235       | 2113743A23       | .220UF 10%               |
| C3238       | 2113743A24       | .330 UF 10% 16V          |
| C3239       | 2113743E07       | .022UF                   |
| C3240       | 2113743A23       | .220UF 10%               |
| C3241       | 2113743L19       | 1200 PF 10%              |
| C3242       | 2109720D14       | LOW DIST 0.1UF           |
| C3243       | 2113743E07       | .022UF                   |
| C3244       | 2113743L41       | 10000 PF 10%             |
| C3270       | 2113743E07       | .022UF                   |
| C3271       | 2113743L05       | 330 PF 10%               |
| C3272       | 2113743N18       | 4.7 PF +/-25PF           |
| C3273       | 2113743N26       | 10.0 PF 5%               |
| C3274       | 2113743N38       | 33.0 PF 5%               |
| C3275       | 2113743N44       | 56.0 PF 5%               |

| Circuit Ref | Motorola Part No | Description            |
|-------------|------------------|------------------------|
| C3276       | 2113743N42       | 47.0 PF 5%             |
| C3277       | 2113743N48       | 82.0 PF 5%             |
| C3278       | 2113743E07       | .022UF                 |
| C3279       | 2311049A40       | GLOBAL TANT 10% 2.2 UF |
| C3280       | 2113743L41       | 10000 PF 10%           |
| C3301       | 2113743N20       | 5.6 PF +/-5PF          |
| C3302       | 2113743N54       | 150 PF 5%              |
| C3303       | 2113743N30       | 15.0PF 5%              |
| C3304       | 2113743N54       | 150 PF 5%              |
| C3306       | 2113928N01       | 0.1UF 10% 6.3          |
| C3307       | 2113743N50       | 100 PF 5%              |
| C3308       | 2113743L05       | 330 PF 10%             |
| C3309       | 2113928N01       | 0.1UF 10% 6.3          |
| C3311       | 2113743N54       | 150 PF 5%              |
| C3312       | 2113743N31       | 16.0 PF 5%             |
| C3313       | 2113743N54       | 150 PF 5%              |
| C3315       | 2113743N26       | 10.0 PF 5%             |
| C3316       | 2113743N14       | 3.3 PF +/-25PF         |
| C3317       | 2113743N40       | 39.0 PF 5%             |
| C3318       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3320       | 2113743N48       | 82.0 PF 5%             |
| C3321       | 2113743L05       | 330 PF 10%             |
| C3322       | 2113743N50       | 100 PF 5%              |
| C3323       | 2113743N50       | 100 PF 5%              |
| C3324       | 2113743N38       | 33.0 PF 5%             |
| C3325       | 2113743L17       | 1000 PF 10%            |
| C3327       | 2113743L05       | 330 PF 10%             |
| C3329       | 2113743L05       | 330 PF 10%             |
| C3330       | 2113743N50       | 100 PF 5%              |
| C3331       | 2113743N50       | 100 PF 5%              |
| C3332       | 2113743N40       | 39.0 PF 5%             |
| C3334       | 2113743N33       | 20.0 PF 5%             |
| C3335       | 2113743N34       | 22.0 PF 5%             |
| C3336       | 2311049A18       | CAP. TANT 10% 10UF     |
| C3337       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3338       | 2113743L09       | 470 PF 10%             |
| C3339       | 2113743N26       | 10.0 PF 5%             |
| C3501       | 2113743L05       | 330 PF 10%             |
| C3502       | 2113743N38       | 33.0 PF 5%             |
| C3503       | 2113743N38       | 33.0 PF 5%             |
| C3504       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3505       | 2113743N38       | 33.0 PF 5%             |
| C3508       | 2113743M08       | 22000PF +80-20% Y5V    |
| C3509       | 2113743L05       | 330 PF 10%             |
| C3512       | 2113740F43       | REEL CL1 +/-30 47      |
| C3513       | 2113740F38       | REEL CL1 +/-30 30      |
| C3514       | 2113740F67       | CL1 +/-30 470 5%       |
| C3515       | 2113743L29       | 3300PF 10%             |
| C3516       | 2311049A08       | KEMET CAPS             |
| C3517       | 2113740F51       | REEL CL1 +/-30 100     |
| C3518       | 2113740F63       | CL1 +/-30 330 5%       |

| Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|
| C3519       | 2113740F35       | REEL CL1 +/-30 22         |
| C3521       | 2111078B51       | RF 220 5 NPO 100V         |
| C3523       | 2111078B44       | RF 120 5 NPO 100V         |
| C3524       | 2113740F33       | REEL CL1 +/-30 18         |
| C3525       | 2113740F27       | REEL CL1 +/-30 10         |
| C3526       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3528       | 2113740F26       | REEL CL1 +/-30 9.1        |
| C3531       | 2113740F34       | REEL CL1 +/-30 20         |
| C3532       | 2113740F47       | REEL CL1 +/-30 68         |
| C3533       | 2113740F24       | REEL CL1 +/-30 7.5        |
| C3534       | 2113740F19       | CHIP CAP, CER 4.7PF       |
| C3535       | 2113740F37       | REEL CL1 +/-30 27         |
| C3536       | 2113740F31       | REEL CL1 +/-30 15         |
| C3537       | 2113740F33       | REEL CL1 +/-30 18         |
| C3539       | 2113740F21       | REEL CL1 +/-30 5.6        |
| C3541       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3542       | 2113743L05       | 330 PF 10%                |
| C3543       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3544       | 2113743L05       | 330 PF 10%                |
| C3546       | 2113743L05       | 330 PF 10%                |
| C3547       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3550       | 2113743N23       | 7.5 PF +/-5PF             |
| C3551       | 2113743N46       | 68.0 PF 5%                |
| C3552       | 2113743N44       | 56.0 PF 5%                |
| C3560       | 2311049A07       | TANT 10% 1.0UF            |
| C3561       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3562       | 2113743L29       | 3300PF 10%                |
| C3563       | 2113743L29       | 3300PF 10%                |
| C3564       | 2113743L01       | 220 PF 10%                |
| C3565       | 2113743E07       | .022UF                    |
| C3566       | 2113743N50       | 100 PF 5%                 |
| C3567       | 2113743L05       | 330 PF 10%                |
| C3568       | 2113743L29       | 3300PF 10%                |
| C3569       | 2113743M08       | 22000PF +80-20% Y5V       |
| C3570       | 2113743L05       | 330 PF 10%                |
| C3571       | 2113743L09       | 470 PF 10%                |
| C3701       | 2113743L41       | 10000 PF 10%              |
| C3702       | 2113743L41       | 10000 PF 10%              |
| C3703       | 2113743L41       | 10000 PF 10%              |
| C3704       | 2113743L41       | 10000 PF 10%              |
| C3705       | 2113743E20       | CHIP. 10 UF 10%           |
| C3706       | 2311049J11       | CAPACITOR TANT 10% 4.7UF  |
| C3707       | 2113743N34       | 22.0 PF 5%                |
| C3708       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3709       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3710       | 2104993J02       | MONOLITH CERAMIC (2.2UF)  |
| C3711       | 2311049A69       | TAN CHIP 10.0 UF 20% 6.3V |
| C3712       | 2113743M24       | 100000 PF +80-20% Y5V     |
| C3713       | 2311049A09       | TANT 2.2 UF 10%           |
| C3714       | 2311049J11       | CAPACITOR TANT 10% 4.7UF  |
| C3715       | 2113743L09       | 470 PF 10%                |

| Circuit Ref | Motorola Part No | Description              |
|-------------|------------------|--------------------------|
| C3721       | 2113743E20       | CHIP. 10 UF 10%          |
| C3722       | 2113743E20       | CHIP. 10 UF 10%          |
| C3724       | 2311049A08       | KEMET CAPS               |
| C3726       | 2113743N24       | 8.2 PF +/-5PF            |
| C3727       | 2113743N50       | 100 PF 5%                |
| C3731       | 2113743L41       | 10000 PF 10%             |
| C3732       | 2113743L41       | 10000 PF 10%             |
| C3733       | 2104993J02       | MONOLITH CERAMIC (2.2UF) |
| C3734       | 2113743L41       | 10000 PF 10%             |
| C3742       | 2113743L01       | 220 PF 10%               |
| C3743       | 2113743L01       | 220 PF 10%               |
| C3744       | 2113743L01       | 220 PF 10%               |
| C3745       | 2113743L01       | 220 PF 10%               |
| C3746       | 2113743L01       | 220 PF 10%               |
| C3752       | 2113743L17       | 1000 PF 10%              |
| C3753       | 2311049A56       | TAN CHIP A/P 4.7 20 10   |
| C3754       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3755       | 2104993J02       | MONOLITH CERAMIC (2.2UF) |
| * C3761     | 2113743N44       | 56.0 PF 5%               |
| * C3762     | 2113740F63       | 330 CL1 +/-30 5%         |
| * C3763     | 2113743N08       | 1.6 PF +/-25PF           |
| C3801       | 2113743N18       | 4.7 PF +/-25PF           |
| C3803       | 2113743L17       | 1000 PF 10%              |
| C3804       | 2113743E20       | CHIP. 10 UF 10%          |
| C3805       | 2113743N18       | 4.7 PF +/-25PF           |
| C3806       | 2113743N50       | 100 PF 5%                |
| C3808       | 2113743N30       | 15.0PF 5%                |
| C3809       | 2113743N36       | 27.0 PF 5%               |
| C3811       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3812       | 2113743M24       | 100000 PF +80-20% Y5V    |
| C3813       | 2113743L41       | 10000 PF 10%             |
| C3815       | 2113743L17       | 1000 PF 10%              |
| C3816       | 2113743N22       | 6.8 PF +/-5PF            |
| C3818       | 2113743E07       | .022UF                   |
| C3821       | 2113743L41       | 10000 PF 10%             |
| C3822       | 2113743L17       | 1000 PF 10%              |
| C3823       | 2113743L41       | 10000 PF 10%             |
| C3824       | 2113743N44       | 56.0 PF 5%               |
| C3825       | 2113743N30       | 15.0PF 5%                |
| C3826       | 2113743N18       | 4.7 PF +/-25PF           |
| C3827       | 2113743E07       | .022UF                   |
| C3828       | 2109720D01       | LOW DIS T .01UF          |
| C3829       | 2109720D01       | LOW DIS T .01UF          |
| C3830       | 2113743N46       | 68.0 PF 5%               |
| C3832       | 2113743L17       | 1000 PF 10%              |
| C3833       | 2113743N18       | 4.7 PF +/-25PF           |
| C3834       | 2113743N44       | 56.0 PF 5%               |
| C3835       | 2113743N22       | 6.8 PF +/-5PF            |
| C3836       | 2113743N30       | 15.0PF 5%                |
| C3842       | 2113743L17       | 1000 PF 10%              |
| C400        | 2113743L41       | 10000 PF 10%             |

| Circuit Ref | Motorola Part No | Description               | Circuit Ref | Motorola Part No | Description            | Circuit Ref | Motorola Part No | Description                   | Circuit Ref | Motorola Part No | Description               |
|-------------|------------------|---------------------------|-------------|------------------|------------------------|-------------|------------------|-------------------------------|-------------|------------------|---------------------------|
| C4001       | 2113743N50       | 100 PF 5%                 | C466        | 2113743N50       | 100 PF 5%              | CR3301      | 4802245J42       | RING QUAD SOT-143 PKG         | L3519       | 2484657R01       | INDUCTOR BEAD CHIP        |
| C4002       | 2113743N50       | 100 PF 5%                 | C467        | 2113928N01       | 0.1UF 10% 6.3          | CR3302      | 4805129M96       | DIODE DUAL                    | L3521       | 2479990A02       | AIR WND COIL/GRN 7.66NH   |
| C4003       | 2113743N50       | 100 PF 5%                 | C471        | 2113743L09       | 470 PF 10%             | CR3303      | 4880154K03       | SOT MMBD353 DUAL SCHTKY       | L3522       | 2479990E01       | COIL AIR WND/GRN 23.75    |
| C401        | 2113743M24       | 100000 PF +80-20% Y5V     | C472        | 2113743L09       | 470 PF 10%             | CR411       | 4802245J47       | SCHOTTKY BARRIER(RB471E)      | L3523       | 2462587N68       | CHIP IND 1000 NH 5%       |
| C402        | 2113743M24       | 100000 PF +80-20% Y5V     | C473        | 2113743L09       | 470 PF 10%             |             |                  | Placed on PCB 8486101B09 only | L3531       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| C4020       | 2113743L17       | 1000 PF 10%               | C474        | 2113743L41       | 10000 PF 10%           | CR412       | 4802245J62       | DIODE SCHOTTKY, RB731U        | L3532       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| C4021       | 2113743L17       | 1000 PF 10%               | C475        | 2113743H14       | 10.0 UF 16V +80-20%    | CR413       | 4802245J62       | DIODE SCHOTTKY, RB731U        | L3538       | 2479990M01       | AIR WND COIL/GRN 30.54NH  |
| C403        | 2113928D08       | CERAMIC CHIP 10.0UF       | C476        | 2113928D08       | CERAMIC CHIP 10.0UF    | CR440       | 4813833C02       | DUAL 70V '5B' COMM CATH       | L3551       | 2479990N01       | AIR WND COIL/GRN 43.67NH  |
| C407        | 2113928N01       | 0.1UF 10% 6.3             | C477        | 2113743L17       | 1000 PF 10%            | CR501       | 4880107R01       | RECTIFIER                     | L3552       | 2479990A02       | AIR WND COIL/GRN 7.66NH   |
| C408        | 2113743N50       | 100 PF 5%                 | C478        | 2113743L17       | 1000 PF 10%            | CR503       | 4805729G49       | DIODE RED/YEL                 | L3701       | 2462587Q42       | IND CHIP 390NH 10%        |
| C409        | 2113743M24       | 100000 PF +80-20% Y5V     | C479        | 2113928N01       | 0.1UF 10% 6.3          | CR700       | 4802245J47       | SCHOTTKY BARRIER(RB471E)      | L3731       | 2462587Q20       | IND CHIP 2,200NH 20%      |
| C410        | 2113928N01       | 0.1UF 10% 6.3             | C480        | 2113928D08       | CERAMIC CHIP 10.0UF    | D3270       | 4862824C01       | DIODE VARACTOR                | L3801       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| C411        | 2113743M24       | 100000 PF +80-20% Y5V     | C481        | 2113928N01       | 0.1UF 10% 6.3          | D3301       | 4802081B58       | DUAL SILCON (VARICAP)         | L3809       | 2462587V27       | CHIP IND 27 NH 5% 0805    |
| C414        | 2113743M24       | 100000 PF +80-20% Y5V     | C482        | 2113928N01       | 0.1UF 10% 6.3          | D3302       | 4802081B58       | DUAL SILCON (VARICAP)         | L3811       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| C415        | 2109720D01       | LOW DIS T .01UF           | C483        | 2113743L09       | 470 PF 10%             | D3521       | 4880973Z02       | PIN DIODE                     | L3812       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| C416        | 2113928N01       | 0.1UF 10% 6.3             | C484        | 2113743L09       | 470 PF 10%             | D3551       | 4880973Z02       | PIN DIODE                     | L3813       | 2462587Q47       | IND CHIP 1000 NH 10%      |
| C419        | 2113743L41       | 10000 PF 10%              | C490        | 2113743L09       | 470 PF 10%             | D3701       | 4802233J09       | DIODE TRIPLE SOT25-RH         | L3816       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| C420        | 2113743L41       | 10000 PF 10%              | C491        | 2113743L09       | 470 PF 10%             | D3702       | 4802233J09       | DIODE TRIPLE SOT25-RH         | L3821       | 2462587N50       | CHIP IND 56 NH 5%         |
| C421        | 2113928N01       | 0.1UF 10% 6.3             | C492        | 2113743L09       | 470 PF 10%             | * D3761     | 4862824C03       | DIODE VARACTOR                | L3822       | 2462587N49       | CHIP IND 47 NH 5%         |
| C422        | 2113743M24       | 100000 PF +80-20% Y5V     | C493        | 2113743N50       | 100 PF 5%              | D3821       | 4805649Q13       | DIODE VCTR ISV 228            | L3823       | 2462587N49       | CHIP IND 47 NH 5%         |
| C423        | 2113743N50       | 100 PF 5%                 | C494        | 2113743N50       | 100 PF 5%              | D3831       | 4805649Q13       | DIODE VCTR ISV 228            | L3824       | 2462587N68       | CHIP IND 1000 NH 5%       |
| C424        | 2311049A59       | TANT CHIP A/P 10UF 10% 6V | C495        | 2113743L09       | 470 PF 10%             | D3832       | 4862824C01       | DIODE VARACTOR                | L3825       | 2462587V34       | CHIP IND 100NH 5% 0805    |
| C425        | 2113743M24       | 100000 PF +80-20% Y5V     | C496        | 2113743L09       | 470 PF 10%             | E400        | 2480640Z01       | C/IND BK1005HM471 BEAD        | L3826       | 2462587N68       | CHIP IND 1000 NH 5%       |
| C426        | 2113743N50       | 100 PF 5%                 | C497        | 2113743L09       | 470 PF 10%             | F501        | 6580542Z01       | FUSE SMT TR/1608FF 3A         | L3831       | 2462587N50       | CHIP IND 56 NH 5%         |
| C427        | 2113743N50       | 100 PF 5%                 | C502        | 2311049A05       | TANT 10% 0.47UF        | FL401       | 4870368G02       | REFLOW CLOCK OSC XTAL         | L3832       | 2462587N51       | CHIP IND 68 NH 5%         |
| C428        | 2113743M24       | 100000 PF +80-20% Y5V     | C503        | 2113743N50       | 100 PF 5%              | H3501       | 2680499Z01       | HEAT SPREADER                 | L3833       | 2462587N50       | CHIP IND 56 NH 5%         |
| C429        | 2113743M24       | 100000 PF +80-20% Y5V     | C505        | 2113743N50       | 100 PF 5%              | J3501       | 0180117S05       | RF JACK ASSEMBLY              | L3834       | 2462587N68       | CHIP IND 1000 NH 5%       |
| C430        | 2113928N01       | 0.1UF 10% 6.3             | C511        | 2113743N50       | 100 PF 5%              | J3502       | 0280519Z02       | NUT, ANTENNA                  | L400        | 2462587Q42       | IND CHIP 390NH 10%        |
| C431        | 2113743N50       | 100 PF 5%                 | C512        | 2113743N50       | 100 PF 5%              | J400        | 0905505Y04       | CONN ZIF HORIZONTAL           | L401        | 2462587Q42       | IND CHIP 390NH 10%        |
| C433        | 2113743L41       | 10000 PF 10%              | C513        | 2113743N50       | 100 PF 5%              | J403        | 0905505Y02       | CONN MALE 20 PIN ZIF          | L410        | 2462587Q42       | IND CHIP 390NH 10%        |
| C434        | 2113743M24       | 100000 PF +80-20% Y5V     | C514        | 2113743N50       | 100 PF 5%              | L3200       | 2462587N68       | CHIP IND 1000 NH 5%           | L411        | 2462587Q42       | IND CHIP 390NH 10%        |
| C435        | 2113743M24       | 100000 PF +80-20% Y5V     | C520        | 2113743L41       | 10000 PF 10%           | L3202       | 2462587N68       | CHIP IND 1000 NH 5%           | L505        | 2462587Q42       | IND CHIP 390NH 10%        |
| C436        | 2113743N34       | 22.0 PF 5%                | C521        | 2113743L41       | 10000 PF 10%           | L3221       | 2462587N68       | CHIP IND 1000 NH 5%           | M701        | 7585651Z01       | PAD, FLEXIBLE             |
| C437        | 2113743N34       | 22.0 PF 5%                | C522        | 2113743L41       | 10000 PF 10%           | L3270       | 2462587T15       | IND 100NH 5% LOW PRO          | M702        | 7585651Z01       | PAD, FLEXIBLE             |
| C440        | 2113743G26       | 4.7UF 16V + 80-20%        | C523        | 2113743L41       | 10000 PF 10%           | L3271       | 2462587Q20       | IND CHIP 2,200NH 20%          | M703        | 7585651Z01       | PAD, FLEXIBLE             |
| C441        | 2113743L09       | 470 PF 10%                | C535        | 2113743L17       | 1000 PF 10%            | L3301       | 2462587T35       | IND CHIP 12NH 5% LOW PRO      | M704        | 7585651Z01       | PAD, FLEXIBLE             |
| C442        | 2113743E20       | 10 UF 10%                 | C701        | 2180478Z20       | MONOLITHIC CER (1.0UF) | L3303       | 2462587T35       | IND CHIP 12NH 5% LOW PRO      | M705        | 7585651Z01       | PAD, FLEXIBLE             |
| C443        | 2113928N01       | CERAMIC CHIP 10.0UF       | C702        | 2113928N01       | 0.1UF 10% 6.3          | L3304       | 2462587T23       | IND CHIP 470NH 5%LOW PRO      | M706        | 7585651Z01       | PAD, FLEXIBLE             |
| C444        | 2113743N50       | 100 PF 5%                 | C703        | 2113743N50       | 100 PF 5%              | L3305       | 2462587T35       | IND CHIP 12NH 5% LOW PRO      | PB501       | 4080523Z01       | SWITCH, TACT              |
| C445        | 2113743L09       | 470 PF 10%                | C704        | 2113928N01       | 0.1UF 10% 6.3          | L3306       | 2462587T35       | IND CHIP 12NH 5% LOW PRO      | PB502       | 4080523Z01       | SWITCH, TACT              |
| C446        | 2113743L09       | 470 PF 10%                | C705        | 2113928N01       | 0.1UF 10% 6.3          | L3308       | 2462587T34       | IND CHIP 10NH 5% LOW PRO      | PB503       | 4080523Z01       | SWITCH, TACT              |
| C447        | 2113928N01       | CERAMIC CHIP 10.0UF       | C707        | 2113928N01       | 0.1UF 10% 6.3          | L3309       | 2462587N55       | CHIP IND 150 NH 5%            | PB504       | 4080523Z01       | SWITCH, TACT              |
| C448        | 2113928N01       | CERAMIC CHIP 10.0UF       | C708        | 2113928N01       | 0.1UF 10% 6.3          | L3312       | 2462587V28       | CHIP IND 33 NH 5% 0805        | PB505       | 4080523Z01       | SWITCH, TACT              |
| C449        | 2113743N50       | 100 PF 5%                 | C709        | 2113743L17       | 1000 PF 10%            | L3501       | 2413926H09       | IND CHIP 5.6 NH +/- 0.3NH     | Q3200       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y  |
| C451        | 2113743M08       | 22000PF +80-20% Y5V       | C711        | 2113743L41       | 10000 PF 10%           | L3503       | 2462587V32       | CHIP IND 68NH 5% 0805         | Q3201       | 4880214G02       | TSTR MMBT3904             |
| C452        | 2113743G26       | 4.7UF 16V + 80-20%        | C713        | 2113928N01       | 0.1UF 10% 6.3          | L3504       | 2462587N51       | CHIP IND 68 NH 5%             | Q3202       | 4880214G02       | TSTR MMBT3904             |
| C453        | 2113743N50       | 100 PF 5%                 | C714        | 2113928N01       | 0.1UF 10% 6.3          | L3511       | 2462587N44       | CHIP IND 18 NH 5%             | Q3270       | 4805218N63       | RF TRANS SOT 323 Bfq67W   |
| C456        | 2113743N50       | 100 PF 5%                 | C715        | 2113928N01       | 0.1UF 10% 6.3          | L3512       | 2479990B01       | AIR WND COIL/GRN 11.03NH      | Q3301       | 4880214G02       | TSTR MMBT3904             |
| C458        | 2113743N50       | 100 PF 5%                 | C717        | 2113928N01       | 0.1UF 10% 6.3          | L3513       | 2479990A02       | AIR WND COIL/GRN 7.66NH       | Q3302       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y  |
| C459        | 2113743N50       | 100 PF 5%                 | C718        | 2113743L17       | 1000 PF 10%            | L3515       | 2479990C03       | AIR WND COIL/GRN 13.85NH      | Q3501       | 4802245J55       | POWER FIELD EFFECT        |
| C463        | 2113743N50       | 100 PF 5%                 | C719        | 2113928N01       | 0.1UF 10% 6.3          | L3518       | 2462587N48       | CHIP IND 39 NH 5%             | Q3561       | 4813824A17       | XSTR PNP40V .2A B=100-300 |



| Circuit Ref | Motorola Part No | Description              |
|-------------|------------------|--------------------------|
| Q3721       | 4802245J50       | DUAL NPN/PNP UMC5N       |
| Q3801       | 4813827A07       | NPNSML SIG MMBR941LT1 7Y |
| Q400        | 4809579E18       | MOSFET P-CHAN TP010IT    |
| Q403        | 4880214G02       | TSTR MMBT3904            |
| Q405        | 4802245J54       | UMG5N DIGITAL TRANSISTOR |
| Q410        | 4802245J54       | UMG5N DIGITAL TRANSISTOR |
| Q416        | 4809579E18       | MOSFET P-CHAN TP010IT    |
| Q417        | 4802245J50       | DUAL NPN/PNP UMC5N       |
| Q502        | 5180159R01       | DUAL TRANS NPNS          |
| Q505        | 4880214G02       | TSTR MMBT3904            |
| R3200       | 0662057M54       | 150 5% 20X40             |
| R3201       | 0662057M82       | 2200 5% 20X40            |
| R3202       | 0662057M90       | 4700 5% 20X40            |
| R3203       | 0662057M98       | 10K 5% 20X40             |
| R3204       | 0662057M26       | 10 5% 20X40              |
| R3205       | 0662057M74       | 1000 5% 20X40            |
| R3206       | 0662057N23       | 100K 5% 20X40            |
| R3207       | 0662057N13       | 39K 5% 20X40             |
| R3208       | 0662057M50       | 100 5% 20X40             |
| R3209       | 0662057M74       | 1000 5% 20X40            |
| R3210       | 0662057M82       | 2200 5% 20X40            |
| R3211       | 0662057M82       | 2200 5% 20X40            |
| R3212       | 0662057M90       | 4700 5% 20X40            |
| R3213       | 0662057M82       | 2200 5% 20X40            |
| R3214       | 0662057M34       | 22 5% 20X 40             |
| R3219       | 0662057M50       | 100 5% 20X40             |
| R3220       | 0662057M90       | 4700 5% 20X40            |
| R3221       | 0662057M50       | 100 5% 20X40             |
| R3224       | 0662057M26       | 10 5% 20X40              |
| R3225       | 0662057M74       | 1000 5% 20X40            |
| R3226       | 0662057M26       | 10 5% 20X40              |
| R3270       | 0662057M74       | 1000 5% 20X40            |
| R3271       | 0662057M42       | 47 5% 20X40              |
| R3272       | 0662057N15       | 47K 5% 20X40             |
| R3273       | 0662057N15       | 47K 5% 20X40             |
| R3274       | 0662057M83       | 2400 5% 20X40            |
| R3275       | 0662057M74       | 1000 5% 20X40            |
| R3276       | 0662057N30       | 200K 5% 20X40            |
| R3303       | 0662057N23       | 100K 5% 20X40            |
| R3304       | 0662057N23       | 100K 5% 20X40            |
| R3305       | 0662057N19       | 68K 5% 20X40             |
| R3306       | 0662057M82       | 2200 5% 20X40            |
| R3307       | 0662057N11       | 33K 5% 20X40             |
| R3308       | 0662057M78       | 1500 5% 20X40            |
| R3309       | 0662057M92       | 5600 5% 20X40            |
| R3310       | 0662057M98       | 10K 5% 20X40             |
| R3311       | 0662057M26       | 10 5% 20X40              |
| R3312       | 0662057M38       | 33 5% 20X40              |
| R3313       | 0662057M34       | 22 5% 20X 40             |
| R3314       | 0662057M26       | 10 5% 20X40              |
| R3315       | 0662057M62       | 330 5% 20X40             |

| Circuit Ref | Motorola Part No | Description         |
|-------------|------------------|---------------------|
| R3316       | 0662057M66       | 470 5% 20X40        |
| R3317       | 0662057N23       | 100K 5% 20X40       |
| R3318       | 0662057M66       | 470 5% 20X40        |
| R3321       | 0662057M54       | 150 5% 20X40        |
| R3322       | 0662057M58       | 220 5% 20X40        |
| R3323       | 0662057M32       | 18 5% 20X40         |
| R3324       | 0662057M58       | 220 5% 20X40        |
| R3501       | 0662057M61       | 300 5% 20X40        |
| R3502       | 0662057M32       | 18 5% 20X40         |
| R3503       | 0662057M61       | 300 5% 20X40        |
| R3505       | 0662057M62       | 330 5% 20X40        |
| R3512       | 0662057A27       | 120 OHMS 5%         |
| R3513       | 0662057A25       | 100 OHMS 5%         |
| R3519       | 0680539Z01       | PWR METAL STRIP RES |
| R3542       | 0662057M92       | 5600 5% 20X40       |
| R3543       | 0662057M50       | 100 5% 20X40        |
| R3544       | 0662057A25       | 100 OHMS 5%         |
| R3545       | 0662057A25       | 100 OHMS 5%         |
| R3546       | 0662057N11       | 33K 5% 20X40        |
| R3547       | 0662057N01       | 12K 5% 20X40        |
| R3548       | 0662057M95       | 7500 55 20X40       |
| R3551       | 0662057M40       | 39 5% 20X40         |
| R3561       | 0662057N01       | 12K 5% 20X40        |
| R3562       | 0662057N11       | 33K 5% 20X40        |
| R3563       | 0662057N33       | 270K 5% 20X40       |
| R3564       | 0662057N35       | 330K 5% 20X40       |
| R3569       | 0662057M92       | 5600 5% 20X40       |
| R3570       | 0662057M98       | 10K 5% 20X40        |
| R3571       | 0662057A27       | 120 OHMS 5%         |
| R3572       | 0662057A27       | 120 OHMS 5%         |
| R3573       | 0662057A27       | 120 OHMS 5%         |
| R3701       | 0662057M50       | 100 5% 20X40        |
| R3703       | 0662057M54       | 150 5% 20X40        |
| R3704       | 0662057M54       | 150 5% 20X40        |
| R3705       | 0662057N11       | 33K 5% 20X40        |
| R3721       | 0662057M66       | 470 5% 20X40        |
| R3722       | 0662057M74       | 1000 5% 20X40       |
| R3723       | 0662057M50       | 100 5% 20X40        |
| R3727       | 0662057N23       | 100K 5% 20X40       |
| R3741       | 0662057M50       | 100 5% 20X40        |
| R3751       | 0662057N30       | 200K 5% 20X40       |
| R3752       | 0662057N35       | 330K 5% 20X40       |
| R3761       | 0662057N15       | 47K 5% 20X40        |
| R3802       | 0662057M50       | 100 5% 20X40        |
| R3803       | 0662057M58       | 220 5% 20X40        |
| R3804       | 0662057M98       | 10K 5% 20X40        |
| R3805       | 0662057N08       | 24K 5% 20X40        |
| R3806       | 0662057M34       | 22 5% 20X 40        |
| R3808       | 0662057M26       | 10 5% 20X40         |
| R3811       | 0662057M50       | 100 5% 20X40        |
| R3816       | 0662057M74       | 1000 5% 20X40       |

| Circuit Ref | Motorola Part No | Description      |
|-------------|------------------|------------------|
| R3817       | 0662057M01       | 0 5% 20X40       |
| R3821       | 0662057M58       | 220 5% 20X40     |
| R3822       | 0662057M42       | 47 5% 20X40      |
| R3823       | 0662057N11       | 33K 5% 20X40     |
| R3824       | 0662057N07       | 22K 5% 20X40     |
| R3825       | 0662057M38       | 33 5% 20X40      |
| R3826       | 0662057M32       | 18 5% 20X40      |
| R3828       | 0662057M50       | 100 5% 20X40     |
| R3829       | 0662057M01       | 0 5% 20X40       |
| R3831       | 0662057M98       | 10K 5% 20X40     |
| R3832       | 0662057N01       | 12K 5% 20X40     |
| R3833       | 0662057M58       | 220 5% 20X40     |
| R3834       | 0662057M42       | 47 5% 20X40      |
| R3835       | 0662057N15       | 47K 5% 20X40     |
| R3836       | 0662057M98       | 10K 5% 20X40     |
| R400        | 0662057N15       | 47K 5% 20X40     |
| R4001       | 0662057M74       | 1000 5% 20X40    |
| R4002       | 0662057M74       | 1000 5% 20X40    |
| R4003       | 0662057M74       | 1000 5% 20X40    |
| R4004       | 0662057M74       | 1000 5% 20X40    |
| R4005       | 0662057M74       | 1000 5% 20X40    |
| R4006       | 0662057M74       | 1000 5% 20X40    |
| R4007       | 0662057M74       | 1000 5% 20X40    |
| R4008       | 0662057M74       | 1000 5% 20X40    |
| R4009       | 0662057M74       | 1000 5% 20X40    |
| R401        | 0662057M01       | 0 5% 20X40       |
| R405        | 0662057M01       | 0 5% 20X40       |
| R406        | 0662057N20       | 75K 5% 20X40     |
| R407        | 0662057N19       | 68K 5% 20X40     |
| R409        | 0662057M98       | 10K 5% 20X40     |
| R410        | 0662057N23       | 100K 5% 20X40    |
| R411        | 0662057M98       | 10K 5% 20X40     |
| R413        | 0662057M01       | 0 5% 20X40       |
| R414        | 0662057V34       | 180K 1% 1/16W    |
| R415        | 0662057V26       | 91K 1% 1/16W     |
| R416        | 0662057N13       | 39K 5% 20X40     |
| R418        | 0662057M01       | 0 5% 20X40       |
| R419        | 0662057M67       | 0 5% 20X40       |
| R420        | 0662057B46       | 10.0 MEG OHMS 5% |
| R421        | 0662057M81       | 2000 5% 20X40    |
| R423        | 0662057N21       | 82K 5% 20X40     |
| R424        | 0662057N12       | 36K 5% 20X40     |
| R425        | 0662057N10       | 30K 5% 20X40     |
| R426        | 0662057N35       | 330K 5% 20X40    |
| R427        | 0662057M84       | 2700 5% 20X40    |
| R428        | 0662057M10       | 2.2 5% 20X40     |
| R429        | 0662057M98       | 10K 5% 20X40     |
| R431        | 0662057N39       | 470K 5% 20X40    |
| R432        | 0662057N16       | 51K 5% 20X40     |
| R434        | 0662057M62       | 330 5% 20X40     |
| R435        | 0662057M81       | 2000 5% 20X40    |

| Circuit Ref | Motorola Part No | Description                  |
|-------------|------------------|------------------------------|
| R436        | 0662057M01       | 0 5% 20X40                   |
| R445        | 0662057N08       | 24K 5% 20X40                 |
| R446        | 0662057N31       | 220K 5% 20X40                |
| R447        | 0662057N51       | 1.5 MEG 5% 20X40             |
| R448        | 0662057N33       | 270K 5% 20X40                |
| R449        | 0662057N08       | 24K 5% 20X40                 |
| R450        | 0683962T45       | 68 5-1                       |
| R457        | 0662057M98       | 10K 5% 20X40                 |
| R460        | 0662057M90       | 4700 5% 20X40                |
| R461        | 0662057M56       | 180 5% 20X40                 |
| R462        | 0662057M98       | 10K 5% 20X40                 |
| R463        | 0662057M61       | 300 5% 20X40                 |
| R471        | 0662057M92       | 5600 5% 20X40                |
| R472        | 0662057M93       | 6200 5% 20X40                |
| R473        | 0662057M26       | 10 5% 20X40                  |
| R475        | 0662057M01       | 0 5% 20X40                   |
| R476        | 0662057N08       | 24K 5% 20X40                 |
| R477        | 0662057M74       | 1000 5% 20X40                |
| R478        | 0662057M98       | 10K 5% 20X40                 |
| R481        | 0662057N08       | 24K 5% 20X40                 |
| R492        | 0662057M01       | 0 5% 20X40                   |
| R498        | 0662057M98       | 10K 5% 20X40                 |
|             |                  | Placed not on PCB 8486101B09 |
| R499        | 0662057M98       | 10K 5% 20X40                 |
| R501        | 0662057M70       | 680 5% 20X40                 |
| R502        | 0662057M56       | 180 5% 20X40                 |
| R505        | 0662057M98       | 10K 5% 20X40                 |
| R506        | 0662057N15       | 47K 5% 20X40                 |
| R701        | 0662057N05       | 18K 5% 20X40                 |
| R702        | 0662057N05       | 18K 5% 20X40                 |
| R703        | 0662057M74       | 1000 5% 20X40                |
| R704        | 0662057N13       | 39K 5% 20X40                 |
| R705        | 0662057N13       | 39K 5% 20X40                 |
| R706        | 0662057N17       | 56K 5% 20X40                 |
| R707        | 0662057M91       | 5100 5% 20X40                |
| R708        | 0662057N41       | 560K 5% 20X40                |
| R709        | 0662057N47       | 1.0 MEG 5% 20X40             |
| R710        | 0662057N39       | 470K 5% 20X40                |
| R716        | 0662057N01       | 12K 5% 20X40                 |
| R717        | 0662057M82       | 2200 5% 20X40                |
| RT400       | 0680590Z01       | THERMISTOR_33K               |
| S501        | 4080710Z02       | SWITCH (FREQUENCY)           |
| S502        | 1880619Z01       | POTENTIOMETER, VOLUME        |
| SH3201      | 2602023X08       | SHIELD                       |
| SH3202      | 2686081B02       | SHIELD                       |
| SH3203      | 2686081B03       | SHIELD                       |
| SH3301      | 2686081B01       | SHIELD                       |
| SH3302      | 2686081B05       | SHIELD                       |
| SH3303      | 2686081B06       | SHIELD                       |
| SH3501      | 2686081B03       | SHIELD                       |
| SH3502      | 2686081B04       | SHIELD                       |

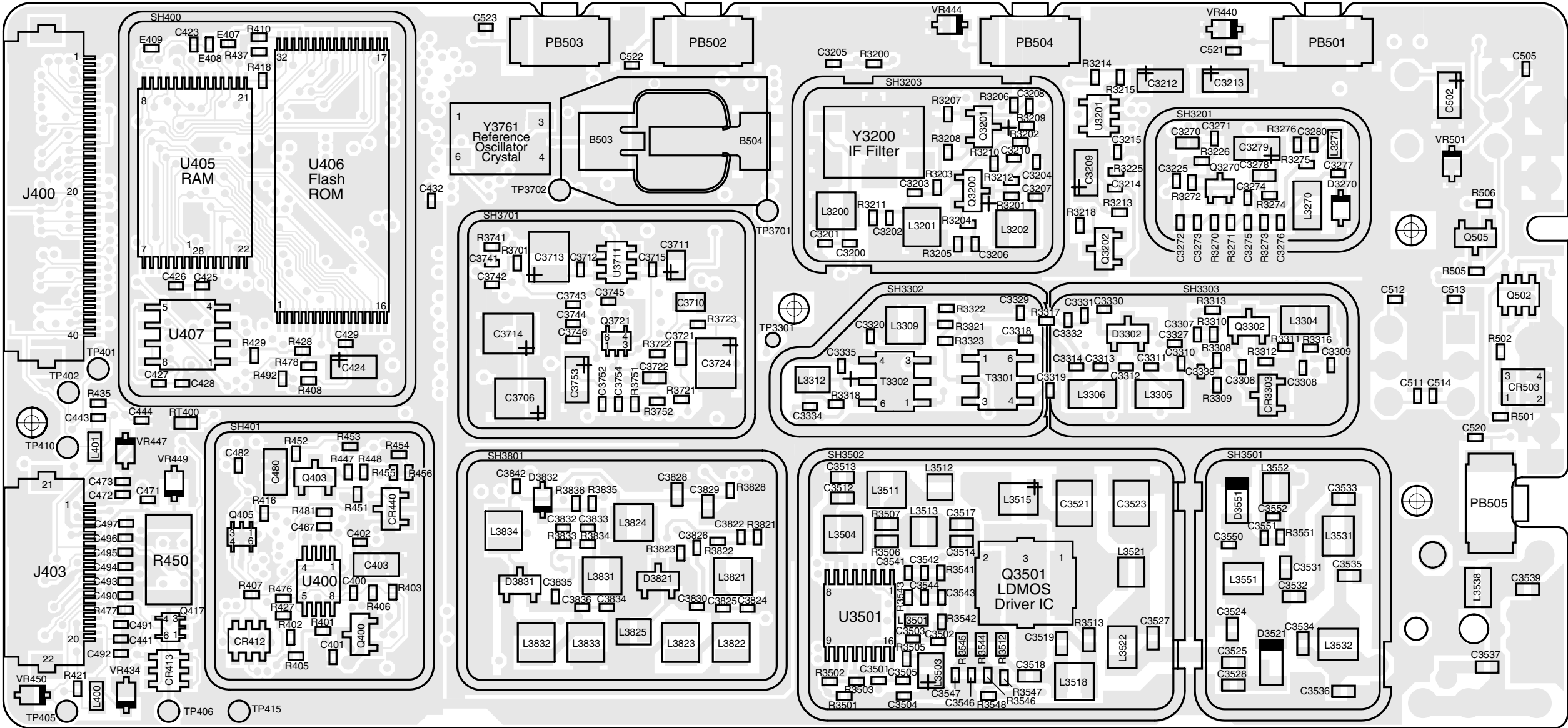
| Circuit Ref | Motorola Part No | Description                   |
|-------------|------------------|-------------------------------|
| SH3701      | 2680511Z01       | SHIELD SYNTHESIZER            |
| SH3702      | 2680511Z01       | SHIELD SYNTHESIZER            |
| SH3801      | 2680513Z01       | SHIELD VCO TOP                |
| SH3802      | 2680514Z01       | SHIELD VCO BOTTOM/LVZIF       |
| SH400       | 2680505Z01       | CTRL TOP LEFT                 |
| SH401       | 2680506Z01       | CTRL TOP RIGHT                |
| SH402       | 2680515Z01       | CTRL BOTTOM LEFT              |
| SH403       | 2680516Z01       | CTRL BTM RIGHT                |
| SH701       | 2680677Z01       | (VOICE STORAGE BOTTOM)        |
| T3301       | 2580541Z01       | BALUN TRANSFORMER             |
| T3302       | 2580541Z01       | BALUN TRANSFORMER             |
| U3201       | 5102463J58       | 3.3V REG IN SOT23-5 PKG       |
| U3220       | 5109632D83       | LVZIF 2.2 H60G 48TQFP         |
| U3501       | 5105109Z67       | IC LDMOS DRIVER VHF/UHF       |
| U3502       | 5185765B01       | IC PWR CONTROL PASS 2.3       |
| U3503       | 5185963A15       | IC TEMP SENSOR 1M50C          |
| U3701       | 5185963A27       | IC AT25016 48 PIN GFP         |
| U3711       | 5105739X05       | IC SOT 5V HI-PRECISION REG    |
| U3801       | 5105750U54       | IC PKG DIE VCO BUFFER         |
| U400        | 5102463J40       | REG 3.3V, LP2951CMM-3.3       |
| U404        | 5185963A53       | IC ASFIC CMP TQFP 48 PIN      |
| U405        | 5102463J36       | STATIC_RAM_32KX8              |
| * U406      | 5102463J60       | 512X8 FLASH (AT49LV040)       |
| * U407      | 5102463J64       | 16KX8 SPI SERIAL EEPROM       |
| U409        | 5102226J56       | 68HC11FLO_PASS5 TQFP          |
| U410        | 5102463J57       | REG 3.3V, ILC7062CM-33        |
| U411        | 4802245J54       | UMG5N DIGITAL TRANSISTOR      |
|             |                  | Placed on PCB 8486101B09 only |
| U420        | 5102463J44       | AUDIO AMP TDA8547TS           |
| U700        | 5109152M01       | IC EEPROM ISD3312OE1          |
| U710        | 5102463J52       | 74HC4066D QUAD ANLOG SW       |
| U720        | 5113818A01       | SING SPLY LM2904DR            |
| VR432       | 4805656W08       | DIODE ZENER QUAD              |
| VR433       | 4805656W08       | DIODE ZENER QUAD              |
| VR434       | 4802245J51       | ZENER DIODE; BZX284-C6V8      |
| VR439       | 4880140L15       | 10V ZENER                     |
| VR447       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR448       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR449       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR450       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR483       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR484       | 4802245J53       | ZENER_DIODE; BZX284-C10       |
| VR501       | 4813830A18       | 6.8V 5% 225MWMMBZ5235B_       |
| VR506       | 4802245J51       | ZENER DIODE; BZX284-C6V8      |
| Y3200       | 4802245J43       | MONOLITH/ XTAL FLTR           |
| Y3761       | 4802245J49       | XTAL 16.8MHZ WITH CLIP        |
|             | 8486101B09       | PCB's WARIS VHF PRIME         |
|             | 8486101B10       |                               |

\* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

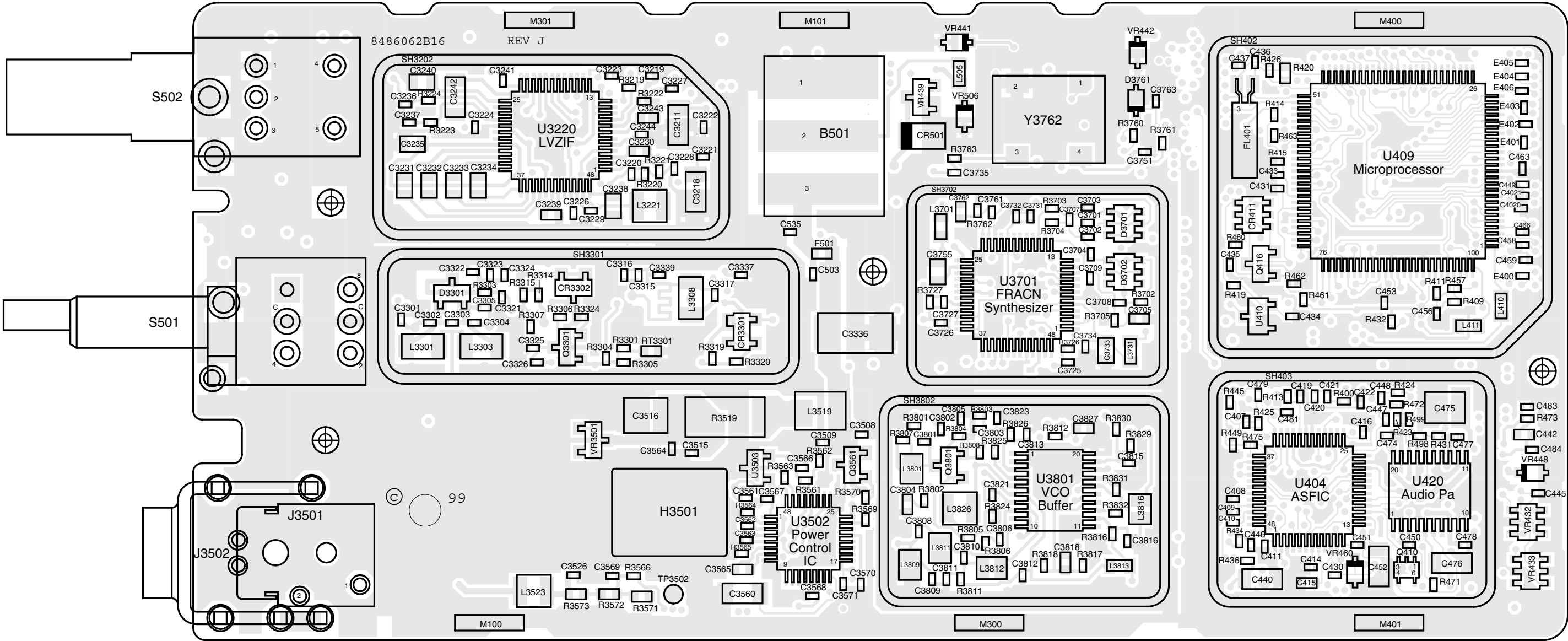


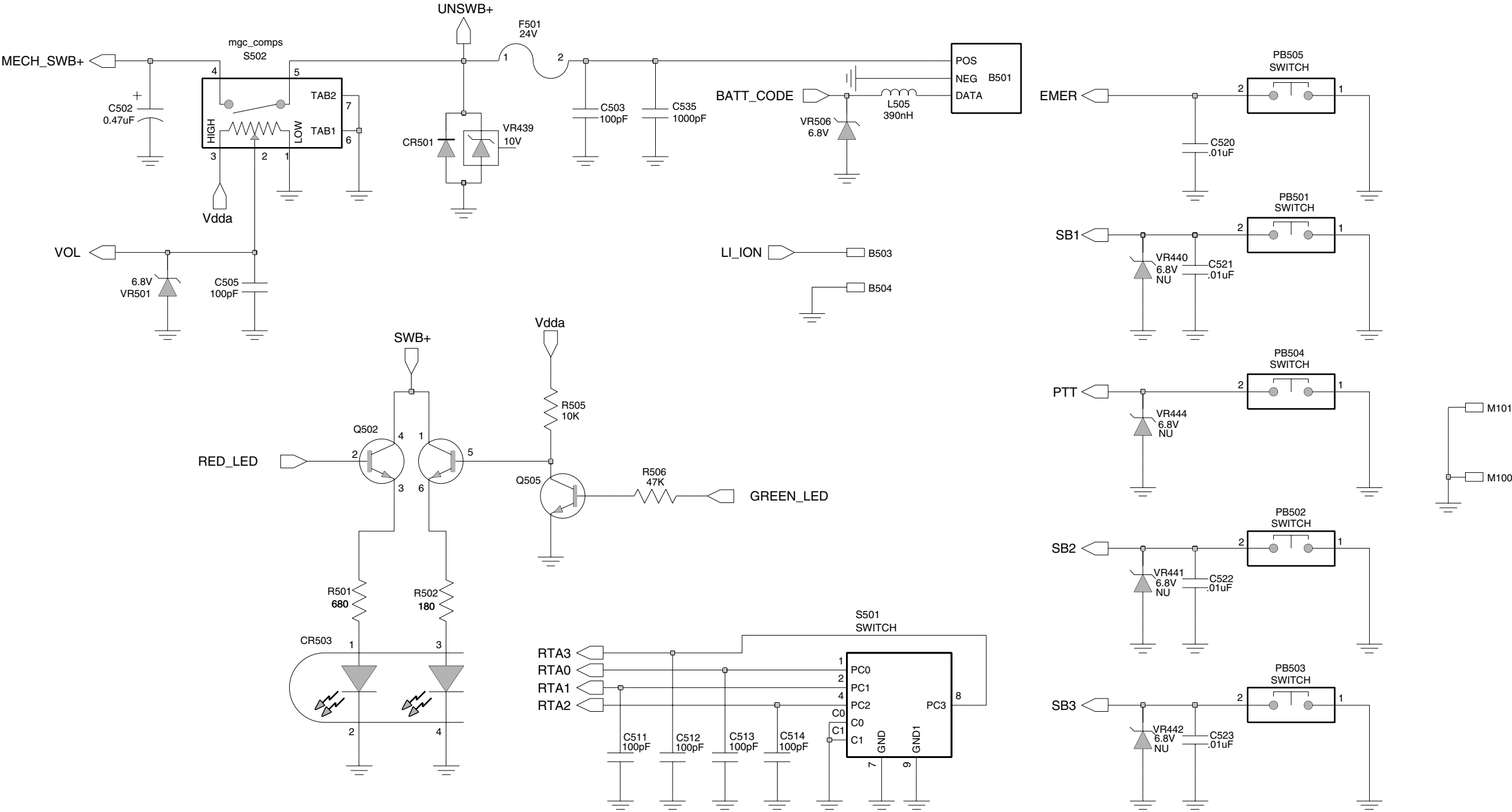
10.0 VHF PCB 8486062B16 / Schematics



ZWG0130561-O

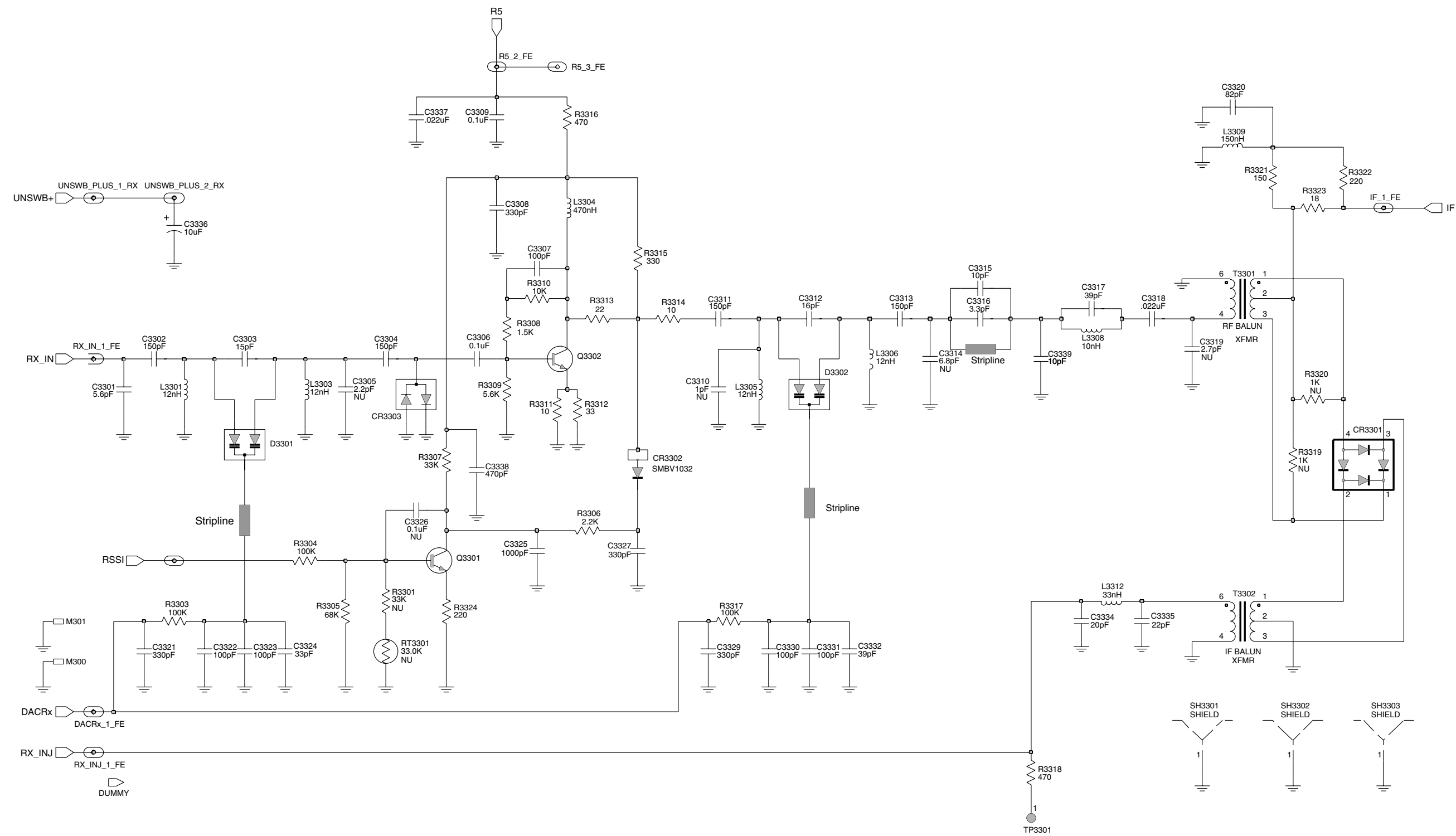
VHF (136-174 MHz) Main Board Top Side





ZMY0130482-A

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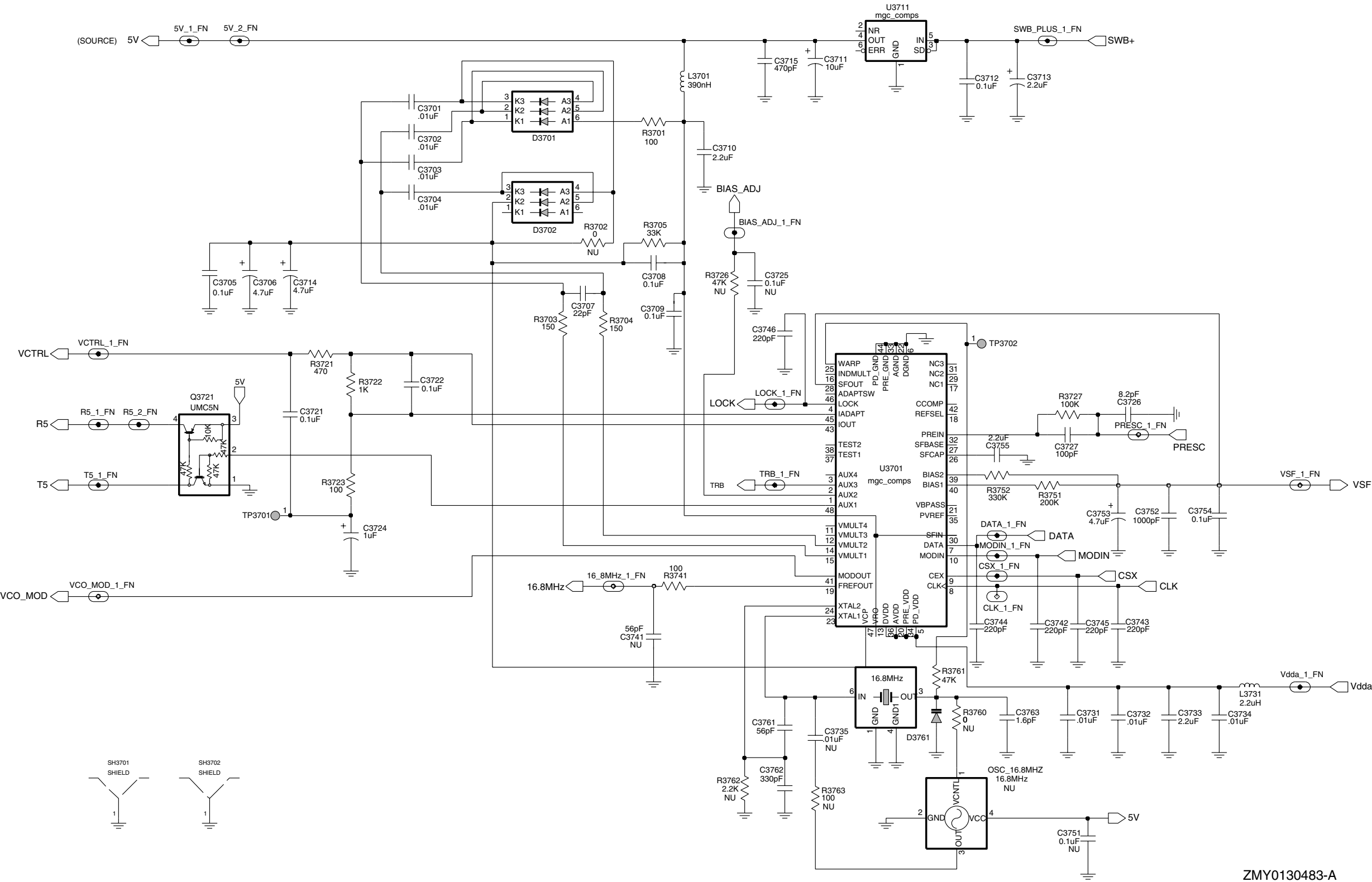


ZMY0130456-A

VHF (136-174 MHz) Receiver Front End

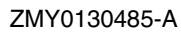


### VHF (136-174 MHz) Receiver Back End

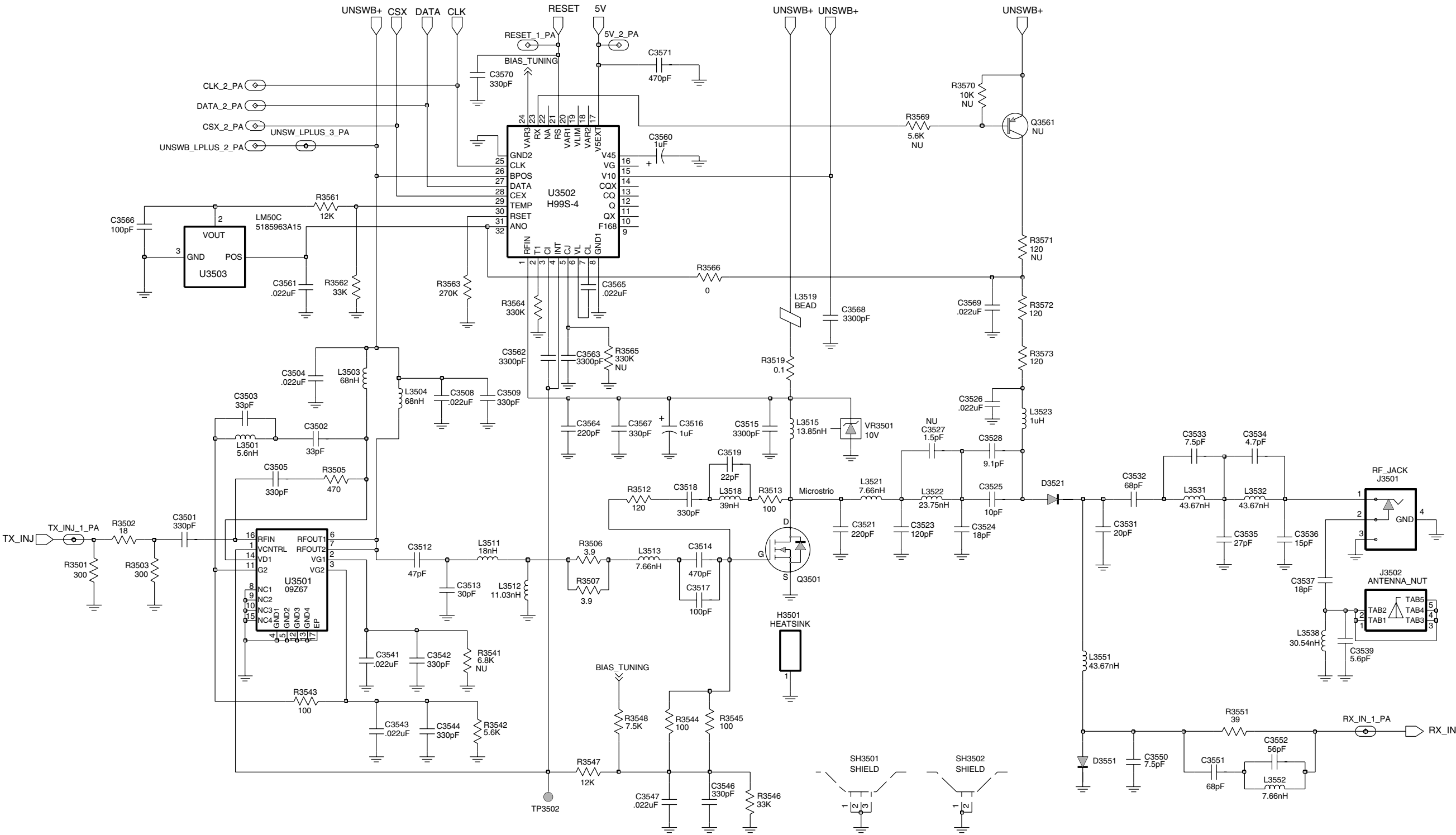


VHF (136-174 MHz) Synthesizer





### VHF (136-174 MHz) Voltage Controlled Oscillator



ZMY0130484-A

VHF (136-174 MHz) Transmitter



11.0 VHF PCB 8486062B16 Parts List

| Circuit Ref | Motorola Part No | Description                                |
|-------------|------------------|--------------------------------------------|
| B501        | 0986237A02       | Connector, Contact Battery                 |
| B503        | 3980502Z01       | Backup battery B+ only GP360, GP380, GP680 |
| B504        | 3980501Z01       | Backup battery B- only GP360, GP380, GP680 |
| C3200       | 2113743N31       | 16pF                                       |
| C3203       | 2113743N50       | 100pF                                      |
| C3204       | 2113743L41       | 10000pF, 10%                               |
| C3205       | 2113928N01       | 0.1uF, 10%                                 |
| C3206       | 2113743L41       | 10000pF, 10%                               |
| C3207       | 2113743N10       | 2.2pF                                      |
| C3209       | 2311049A07       | 1uF                                        |
| C3210       | 2113743L17       | 1000pF, 10%                                |
| C3211       | 2311049A56       | 4.7uF, 20%, 10V                            |
| C3212       | 2311049A07       | 1uF                                        |
| C3213       | 2311049A56       | 4.7uF, 20%, 10V                            |
| C3214       | 2113928N01       | 0.1uF, 10%                                 |
| C3215       | 2113743N26       | 10pF                                       |
| C3218       | 2311049A56       | 4.7uF, 20%, 10V                            |
| C3219       | 2113928N01       | 0.1uF, 10%                                 |
| C3220       | 2113743N26       | 10pF                                       |
| C3221       | 2113743L41       | 10000pF, 10%                               |
| C3222       | 2113928N01       | 0.1uF, 10%                                 |
| C3223       | 2113928N01       | 0.1uF, 10%                                 |
| C3224       | 2113928N01       | 0.1uF, 10%                                 |
| C3225       | 2113928N01       | 0.1uF, 10%                                 |
| C3226       | 2113928N01       | 0.1uF, 10%                                 |
| C3227       | 2113743L41       | 10000pF, 10%                               |
| C3228       | 2113743L41       | 10000pF, 10%                               |
| C3229       | 2113743N50       | 100pF                                      |
| C3230       | 2113740F51       | 100pF                                      |
| C3231       | 2180478Z20       | 1uF                                        |
| C3232       | 2180478Z20       | 1uF                                        |
| C3233       | 2180478Z20       | 1uF                                        |
| C3234       | 2180478Z20       | 1uF                                        |
| C3235       | 2113743A23       | 0.220uF                                    |
| C3238       | 2113743A24       | 0.330uF                                    |
| C3239       | 2113743E07       | 0.022uF                                    |
| C3240       | 2113743A23       | 0.220uF                                    |
| C3241       | 2113743L19       | 1200pF                                     |
| C3242       | 2109720D14       | 0.1uF                                      |
| C3243       | 2113743E07       | 0.022uF                                    |
| C3244       | 2113743L41       | 10000pF, 10%                               |
| C3270       | 2113743E07       | 0.022uF                                    |
| C3271       | 2113743L05       | 330pF                                      |
| C3272       | 2113743N18       | 4.7pF                                      |
| C3273       | 2113743N26       | 10pF                                       |
| C3274       | 2113743N38       | 33pF                                       |

| Circuit Ref | Motorola Part No | Description       |
|-------------|------------------|-------------------|
| C3275       | 2113743N44       | 56pF              |
| C3276       | 2113743N42       | 47pF              |
| C3277       | 2113743N48       | 82pF              |
| C3278       | 2113743E07       | 0.022uF           |
| C3279       | 2311049A40       | 2.2uF, 10%, 16V   |
| C3280       | 2113743L41       | 10000pF, 10%      |
| C3301       | 2113743N20       | 5.6pF             |
| C3302       | 2113743N54       | 150pF             |
| C3303       | 2113743N30       | 15pF              |
| C3304       | 2113743N54       | 150pF             |
| C3306       | 2113928N01       | 0.1uF, 10%        |
| C3307       | 2113743N50       | 100pF             |
| C3308       | 2113743L05       | 330pF             |
| C3309       | 2113928N01       | 0.1uF, 10%        |
| C3311       | 2113743N54       | 150pF             |
| C3312       | 2113743N31       | 16pF              |
| C3313       | 2113743N54       | 150pF             |
| C3315       | 2113743N26       | 10pF              |
| C3316       | 2113743N14       | 3.3pF             |
| C3317       | 2113743N40       | 39pF              |
| C3318       | 2113743M08       | 22000pF, +80/-20% |
| C3320       | 2113743N48       | 82pF              |
| C3321       | 2113743L05       | 330pF             |
| C3322       | 2113743N50       | 100pF             |
| C3323       | 2113743N50       | 100pF             |
| C3324       | 2113743N38       | 33pF              |
| C3325       | 2113743L17       | 1000pF, 10%       |
| C3327       | 2113743L05       | 330pF             |
| C3329       | 2113743L05       | 330pF             |
| C3330       | 2113743N50       | 100pF             |
| C3331       | 2113743N50       | 100pF             |
| C3332       | 2113743N40       | 39pF              |
| C3334       | 2113743N33       | 20pF              |
| C3335       | 2113743N34       | 22pF              |
| C3336       | 2311049A18       | 10uF              |
| C3337       | 2113743M08       | 22000pF, +80/-20% |
| C3338       | 2113743L09       | 470pF, 10%        |
| C3339       | 2113743N26       | 10pF              |
| C3501       | 2113743L05       | 330pF             |
| C3502       | 2113743N38       | 33pF              |
| C3503       | 2113743N38       | 33pF              |
| C3504       | 2113743M08       | 22000pF, +80/-20% |
| C3505       | 2113743N38       | 33pF              |
| C3508       | 2113743M08       | 22000pF, +80/-20% |
| C3509       | 2113743L05       | 330pF             |
| C3512       | 2113740F43       | 47pF              |
| C3513       | 2113740F38       | 30pF              |
| C3514       | 2113740F47       | 68pF              |
| C3515       | 2113743L29       | 3300pF            |
| C3516       | 2311049A08       | 1uF               |
| C3517       | 2113740F47       | 68pF              |

| Circuit Ref | Motorola Part No | Description       |
|-------------|------------------|-------------------|
| C3521       | 2111078B51       | 220pF             |
| C3523       | 2111078B44       | 120pF             |
| C3524       | 2113740F33       | 18pF              |
| C3525       | 2113740F27       | 10pF              |
| C3526       | 2113743M08       | 22000pF, +80/-20% |
| C3528       | 2113740F27       | 10pF              |
| C3531       | 2113740F34       | 20pF              |
| C3532       | 2113740F47       | 68pF              |
| C3533       | 2113740F24       | 7.5pF             |
| C3534       | 2113740F19       | 4.7pF             |
| C3535       | 2113740F37       | 27pF              |
| C3536       | 2113740F31       | 15pF              |
| C3537       | 2113740F33       | 18pF              |
| C3539       | 2113740F29       | 12pF              |
| C3541       | 2113743M08       | 22000pF, +80/-20% |
| C3542       | 2113743L05       | 330pF             |
| C3543       | 2113743M08       | 22000pF, +80/-20% |
| C3544       | 2113743L05       | 330pF             |
| C3546       | 2113743L05       | 330pF             |
| C3547       | 2113743M08       | 22000pF, +80/-20% |
| C3550       | 2113743N23       | 7.5pF             |
| C3551       | 2113743N46       | 68pF              |
| C3552       | 2113743N44       | 56pF              |
| C3560       | 2311049A07       | 1uF               |
| C3561       | 2113743M08       | 22000pF, +80/-20% |
| C3562       | 2113743L29       | 3300pF            |
| C3563       | 2113743L29       | 3300pF            |
| C3564       | 2113743L01       | 220pF             |
| C3565       | 2113743E07       | 0.022uF           |
| C3566       | 2113743N50       | 100pF             |
| C3567       | 2113743L05       | 330pF             |
| C3568       | 2113743L29       | 3300pF            |
| C3569       | 2113743M08       | 22000pF, +80/-20% |
| C3570       | 2113743L05       | 330pF             |
| C3571       | 2113743L09       | 470pF, 10%        |
| C3701       | 2113743L41       | 10000pF, 10%      |
| C3702       | 2113743L41       | 10000pF, 10%      |
| C3703       | 2113743L41       | 10000pF, 10%      |
| C3704       | 2113743L41       | 10000pF, 10%      |
| C3705       | 2113743E20       | 0.10uF, 10%       |
| C3706       | 2311049J11       | 4.7uF             |
| C3707       | 2113743N34       | 22pF              |
| C3708       | 2113928N01       | 0.1uF, 10%        |
| C3709       | 2113928N01       | 0.1uF, 10%        |
| C3710       | 2104993J02       | 2.2uF             |
| C3711       | 2311049A69       | 10uF              |
| C3712       | 2113928N01       | 0.1uF, 10%        |
| C3713       | 2311049A09       | 2.2uF             |
| C3714       | 2311049J11       | 4.7uF             |
| C3715       | 2113743L09       | 470pF, 10%        |
| C3721       | 2113743E20       | 0.10uF, 10%       |

| Circuit Ref | Motorola Part No | Description     |
|-------------|------------------|-----------------|
| C3722       | 2113743E20       | 0.10uF, 10%     |
| C3724       | 2311049A08       | 1uF             |
| C3726       | 2113743N24       | 8.2pF           |
| C3727       | 2113743N50       | 100pF           |
| C3731       | 2113743L41       | 10000pF, 10%    |
| C3732       | 2113743L41       | 10000pF, 10%    |
| C3733       | 2104993J02       | 2.2uF           |
| C3734       | 2113743L41       | 10000pF, 10%    |
| C3742       | 2113743L01       | 220pF           |
| C3743       | 2113743L01       | 220pF           |
| C3744       | 2113743L01       | 220pF           |
| C3745       | 2113743L01       | 220pF           |
| C3746       | 2113743L01       | 220pF           |
| C3752       | 2113743L17       | 1000pF, 10%     |
| C3753       | 2311049A56       | 4.7uF, 20%, 10V |
| C3754       | 2113928N01       | 0.1uF, 10%      |
| C3755       | 2104993J02       | 2.2uF           |
| * C3761     | 2113743N44       | 56pF            |
| * C3762     | 2113740F63       | 330pF           |
| * C3763     | 2113743N08       | 1.6pF           |
| C3801       | 2113743N18       | 4.7pF           |
| C3803       | 2113743L17       | 1000pF, 10%     |
| C3804       | 2113743E20       | 0.10uF, 10%     |
| C3805       | 2113743N18       | 4.7pF           |
| C3806       | 2113743N50       | 100pF           |
| C3808       | 2113743N30       | 15pF            |
| C3809       | 2113743N36       | 27pF            |
| C3811       | 2113928N01       | 0.1uF, 10%      |
| C3812       | 2113928N01       | 0.1uF, 10%      |
| C3813       | 2113743L41       | 10000pF, 10%    |
| C3815       | 2113743L17       | 1000pF, 10%     |
| C3816       | 2113743N22       | 6.8pF           |
| C3818       | 2113743E07       | 0.022uF         |
| C3821       | 2113743L41       | 10000pF, 10%    |
| C3822       | 2113743L17       | 1000pF, 10%     |
| C3823       | 2113743L41       | 10000pF, 10%    |
| C3824       | 2113743N44       | 56pF            |
| C3825       | 2113743N30       | 15pF            |
| C3826       | 2113743N18       | 4.7pF           |
| C3827       | 2113743E07       | 0.022uF         |
| C3828       | 2185895Z01       | 0.01uF, 10%     |
| C3829       | 2185895Z01       | 0.01uF, 10%     |
| C3830       | 2113743N46       | 68pF            |
| C3832       | 2113743L17       | 1000pF, 10%     |
| C3833       | 2113743N18       | 4.7pF           |
| C3834       | 2113743N44       | 56pF            |
| C3835       | 2113743N22       | 6.8pF           |
| C3836       | 2113743N30       | 15pF            |
| C3842       | 2113743L17       | 1000pF, 10%     |
| C400        | 2113743L41       | 10000pF, 10%    |
| C401        | 2113928N01       | 0.1uF, 10%      |

| Circuit Ref | Motorola Part No | Description                            |
|-------------|------------------|----------------------------------------|
| C402        | 2113928N01       | 0.1uF, 10%                             |
| C4020       | 2113743L17       | 1000pF, 10%                            |
| C4021       | 2113743L17       | 1000pF, 10%                            |
| C403        | 2113928D08       | 10uF, +/-80%/-20%                      |
| C407        | 2113928N01       | 0.1uF, 10%                             |
| C408        | 2113743N50       | 100pF                                  |
| C409        | 2113928N01       | 0.1uF, 10%                             |
| C410        | 2113928N01       | 0.1uF, 10%                             |
| C411        | 2113928N01       | 0.1uF, 10%                             |
| C414        | 2113928N01       | 0.1uF, 10%                             |
| C415        | 2185895Z01       | 0.01uF, 10%                            |
| C416        | 2113928N01       | 0.1uF, 10%                             |
| C419        | 2113743L41       | 10000pF, 10%                           |
| C420        | 2113743L41       | 10000pF, 10%                           |
| C421        | 2113928N01       | 0.1uF, 10%                             |
| C422        | 2113928N01       | 0.1uF, 10%                             |
| C423        | 2113743N50       | 100pF                                  |
| C424        | 2311049A59       | 10uF, 10%, 6V                          |
| C425        | 2113928N01       | 0.1uF, 10%                             |
| C426        | 2113743N50       | 100pF                                  |
| C427        | 2113743N50       | 100pF                                  |
| C428        | 2113928N01       | 0.1uF, 10%                             |
| C429        | 2113928N01       | 0.1uF, 10%                             |
| C430        | 2113928N01       | 0.1uF, 10%                             |
| C431        | 2113743N50       | 100pF                                  |
| C433        | 2113743L41       | 10000pF, 10%                           |
| C434        | 2113928N01       | 0.1uF, 10%<br>only GP360, GP380, GP680 |
| C435        | 2113928N01       | 0.1uF, 10%                             |
| C436        | 2113743N34       | 22pF<br>only GP360, GP380, GP680       |
| C437        | 2113743N34       | 22pF<br>only GP360, GP380, GP680       |
| C440        | 2113743G26       | 4.7F, + 80/-20%                        |
| C441        | 2113743L09       | 470pF, 10%                             |
| C442        | 2113743E20       | 0.10uF, 10%                            |
| C443        | 2113928N01       | 0.1uF, 10%                             |
| C444        | 2113743N50       | 100pF                                  |
| C445        | 2113743L09       | 470pF, 10%                             |
| C446        | 2113743L09       | 470pF, 10%                             |
| C447        | 2113928N01       | 0.1uF, 10%                             |
| C448        | 2113928N01       | 0.1uF, 10%                             |
| C449        | 2113743N50       | 100pF                                  |
| C451        | 2113743M08       | 22000pF, +80/-20%                      |
| C452        | 2113743B29       | 1uF                                    |
| C453        | 2113743N50       | 100pF                                  |
| C456        | 2113743N50       | 100pF                                  |
| C458        | 2113743N50       | 100pF                                  |
| C459        | 2113743N50       | 100pF                                  |
| C463        | 2113743N50       | 100pF                                  |
| C466        | 2113743N50       | 100pF                                  |

| Circuit Ref | Motorola Part No | Description                        |
|-------------|------------------|------------------------------------|
| C467        | 2113928N01       | 0.1uF, 10%                         |
| C471        | 2113743L09       | 470pF, 10%                         |
| C472        | 2113743L09       | 470pF, 10%                         |
| C473        | 2113743L09       | 470pF, 10%                         |
| C474        | 2113743L41       | 10000pF, 10%                       |
| C475        | 2113743H14       | 10uF, +80/-20%                     |
| C476        | 2113928D08       | 10uF, +/-80%/-20%                  |
| C477        | 2113743L17       | 1000pF, 10%                        |
| C478        | 2113743L17       | 1000pF, 10%                        |
| C479        | 2113928N01       | 0.1uF, 10%                         |
| C480        | 2113928D08       | 10uF, +/-80%/-20%                  |
| C481        | 2113928N01       | 0.1uF, 10%                         |
| C482        | 2113928N01       | 0.1uF, 10%                         |
| C483        | 2113743L09       | 470pF, 10%                         |
| C484        | 2113743L09       | 470pF, 10%                         |
| C490        | 2113743L09       | 470pF, 10%                         |
| C491        | 2113743L09       | 470pF, 10%                         |
| C492        | 2113743L09       | 470pF, 10%                         |
| C493        | 2113743N50       | 100pF                              |
| C494        | 2113743N50       | 100pF                              |
| C495        | 2113743L09       | 470pF, 10%                         |
| C496        | 2113743L09       | 470pF, 10%                         |
| C497        | 2113743L09       | 470pF, 10%                         |
| C502        | 2311049A05       | 0.47uF, 10%, 25V                   |
| C503        | 2113743N50       | 100pF                              |
| C505        | 2113743N50       | 100pF                              |
| C511        | 2113743N50       | 100pF                              |
| C512        | 2113743N50       | 100pF                              |
| C513        | 2113743N50       | 100pF                              |
| C514        | 2113743N50       | 100pF                              |
| C520        | 2113743L41       | 10000pF, 10%                       |
| C521        | 2113743L41       | 10000pF, 10%                       |
| C522        | 2113743L41       | 10000pF, 10%                       |
| C523        | 2113743L41       | 10000pF, 10%                       |
| C535        | 2113743L17       | 1000pF, 10%                        |
| CR3301      | 4802245J42       | Ring Quad diode                    |
| CR3302      | 4805129M96       | Dual Bonds Pin Diode, RH<br>Reeled |
| CR3303      | 4880154K03       | Dual common anode-cathode<br>diode |
| CR411       | 4802245J62       | Schottky diode                     |
| CR412       | 4802245J62       | Schottky diode                     |
| CR413       | 4802245J62       | Schottky diode                     |
| CR440       | 4813833C02       | Dual Diode Common Cathode          |
| CR501       | 4880107R01       | Rectifier                          |
| CR503       | 4805729G49       | LED Red/Yellow                     |
| D3270       | 4862824C01       | Varactor                           |
| D3301       | 4802081B58       | Dual Diode                         |
| D3302       | 4802081B58       | Dual Diode                         |
| D3521       | 4880973Z02       | Pin diode                          |
| D3551       | 4880973Z02       | Pin diode                          |

| Circuit Ref | Motorola Part No | Description                                              |
|-------------|------------------|----------------------------------------------------------|
| D3701       | 4802233J09       | Triple diode                                             |
| D3702       | 4802233J09       | Triple diode                                             |
| * D3761     | 4862824C03       | Varactor                                                 |
| D3821       | 4805649Q13       | Varactor                                                 |
| D3831       | 4805649Q13       | Varactor                                                 |
| D3832       | 4862824C01       | Varactor                                                 |
| E400        | 2480640Z01       | Ferrite bead                                             |
| E401        | 2480640Z01       | Ferrite bead                                             |
| E402        | 2480640Z01       | Ferrite bead                                             |
| E403        | 2480640Z01       | Ferrite bead                                             |
| E404        | 2480640Z01       | Ferrite bead                                             |
| E405        | 2480640Z01       | Ferrite bead                                             |
| E406        | 2480640Z01       | Ferrite bead                                             |
| E407        | 2480640Z01       | Ferrite bead                                             |
| E408        | 2480640Z01       | Ferrite bead                                             |
| E409        | 2480640Z01       | Ferrite bead                                             |
| F501        | 6580542Z01       | 3A Fuse                                                  |
| FL401       | 4870368G02       | Real Time Clock Osciall XTAL<br>only GP360, GP380, GP680 |
| H3501       | 2680499Z01       | Heat spreader                                            |
| J3501       | 0985613Z01       | RF Jack                                                  |
| J3502       | 0280519Z02       | Antenna_Nut                                              |
| J400        | 0905505Y04       | 40-pin connector                                         |
| J403        | 0905505Y02       | 20-pin connector                                         |
| L3200       | 2462587N68       | 1uH                                                      |
| L3202       | 2462587N68       | 1uH                                                      |
| L3221       | 2462587N68       | 1uH                                                      |
| L3270       | 2462587T15       | 100nH                                                    |
| L3271       | 2462587Q20       | 2.2uF                                                    |
| L3301       | 2462587T35       | 12nH                                                     |
| L3303       | 2462587T35       | 12nH                                                     |
| L3304       | 2462587T23       | 470nH                                                    |
| L3305       | 2462587T35       | 12nH                                                     |
| L3306       | 2462587T35       | 12nH                                                     |
| L3308       | 2462587T34       | 10nH                                                     |
| L3309       | 2462587N55       | 150nH                                                    |
| L3312       | 2462587V28       | 33nH                                                     |
| L3501       | 2413926H09       | 5.6nH                                                    |
| L3503       | 2462587V32       | 68nH                                                     |
| L3504       | 2462587N51       | 68nH                                                     |
| L3511       | 2462587N44       | 18nH                                                     |
| L3512       | 2479990B01       | 11.03nH                                                  |
| L3513       | 2479990A02       | 7.66nH, 10%                                              |
| L3515       | 2479990C03       | 13.85nH                                                  |
| L3519       | 2484657R01       | Ferrite bead                                             |
| L3521       | 2479990A02       | 7.66nH, 10%                                              |
| L3522       | 2479990E01       | 23.75nH                                                  |
| L3523       | 2462587N68       | 1uH                                                      |
| L3531       | 2479990N01       | 43.67nH                                                  |
| L3532       | 2479990N01       | 43.67nH                                                  |
| L3538       | 2479990M01       | 30.54nH                                                  |

| Circuit Ref | Motorola Part No | Description                                    |
|-------------|------------------|------------------------------------------------|
| L3551       | 2479990N01       | 43.67nH                                        |
| L3552       | 2479990A02       | 7.66nH, 10%                                    |
| L3701       | 2462587Q42       | 390nH, 10%                                     |
| L3731       | 2462587Q20       | 2.2uF                                          |
| L3801       | 2462587V34       | 100nH                                          |
| L3809       | 2462587V27       | 27nH                                           |
| L3811       | 2462587V34       | 100nH                                          |
| L3812       | 2462587V34       | 100nH                                          |
| L3813       | 2462587Q47       | 1000nH, 10%, QF45                              |
| L3816       | 2462587V34       | 100nH                                          |
| L3821       | 2462587N50       | 56nH                                           |
| L3822       | 2462587N49       | 47nH                                           |
| L3823       | 2462587N49       | 47nH                                           |
| L3824       | 2462587N68       | 1uH                                            |
| L3825       | 2462587V34       | 100nH                                          |
| L3826       | 2462587N68       | 1uH                                            |
| L3831       | 2462587N50       | 56nH                                           |
| L3832       | 2462587N51       | 68nH                                           |
| L3833       | 2462587N50       | 56nH                                           |
| L3834       | 2462587N68       | 1uH                                            |
| L400        | 2462587Q42       | 390nH, 10%                                     |
| L401        | 2462587Q42       | 390nH, 10%                                     |
| L410        | 2462587Q42       | 390nH, 10%                                     |
| L411        | 2462587Q42       | 390nH, 10%                                     |
| L505        | 2462587Q42       | 390nH, 10%                                     |
| PB501       | 4080523Z01       | Tactile, Pushbutton                            |
| PB502       | 4080523Z01       | Tactile, Pushbutton                            |
| PB503       | 4080523Z01       | Tactile, Pushbutton<br>not in GP320            |
| PB504       | 4080523Z01       | Tactile, Pushbutton                            |
| PB505       | 4080523Z01       | Tactile, Pushbutton<br>not in GP320            |
| Q3200       | 4813827A07       | NPN Transistor                                 |
| Q3201       | 4880214G02       | NPN Transistor                                 |
| Q3202       | 4880214G02       | NPN Transistor                                 |
| Q3270       | 4805218N63       | RF Transistor                                  |
| Q3301       | 4880214G02       | NPN Transistor                                 |
| Q3302       | 4813827A07       | NPN Transistor                                 |
| Q3501       | 4813828A08       | FET                                            |
| Q3561       | 4813824A17       | PNP Transistor                                 |
| Q3721       | 4802245J50       | Dual NPN/PNP Transistor                        |
| Q3801       | 4813827A07       | NPN Transistor                                 |
| Q400        | 4809579E18       | Mosfet P - channel                             |
| Q403        | 4813824A17       | PNP Transistor                                 |
| Q405        | 4802245J54       | Dual NPN Transistor                            |
| Q410        | 4802245J54       | Dual NPN Transistor                            |
| Q416        | 4809579E18       | Mosfet P - channel<br>only GP360, GP380, GP680 |
| Q417        | 4802245J50       | Dual NPN/PNP Transistor                        |
| Q502        | 5180159R01       | Dual NPN Transistor                            |
| Q505        | 4880214G02       | NPN Transistor                                 |

| Circuit Ref | Motorola Part No | Description |
|-------------|------------------|-------------|
| R3200       | 0662057M54       | 150         |
| R3201       | 0662057M82       | 2200        |
| R3202       | 0662057M90       | 4700        |
| R3203       | 0662057M98       | 10k         |
| R3204       | 0662057M26       | 10          |
| R3205       | 0662057M74       | 1000        |
| R3206       | 0662057N23       | 100K        |
| R3207       | 0662057N13       | 39K         |
| R3208       | 0662057M50       | 100         |
| R3209       | 0662057M74       | 1000        |
| R3210       | 0662057M82       | 2200        |
| R3211       | 0662057M82       | 2200        |
| R3212       | 0662057M90       | 4700        |
| R3213       | 0662057M82       | 2200        |
| R3214       | 0662057M34       | 22          |
| R3219       | 0662057M50       | 100         |
| R3220       | 0662057M90       | 4700        |
| R3221       | 0662057M50       | 100         |
| R3224       | 0662057M26       | 10          |
| R3225       | 0662057M74       | 1000        |
| R3226       | 0662057M26       | 10          |
| R3270       | 0662057M74       | 1000        |
| R3271       | 0662057M42       | 47          |
| R3272       | 0662057N15       | 47K         |
| R3273       | 0662057N15       | 47K         |
| R3274       | 0662057M83       | 2400        |
| R3275       | 0662057M74       | 1000        |
| R3276       | 0662057N30       | 200K        |
| R3303       | 0662057N23       | 100K        |
| R3304       | 0662057N23       | 100K        |
| R3305       | 0662057N19       | 68K         |
| R3306       | 0662057M82       | 2200        |
| R3307       | 0662057N11       | 33K         |
| R3308       | 0662057M78       | 1500        |
| R3309       | 0662057M92       | 5600        |
| R3310       | 0662057M98       | 10k         |
| R3311       | 0662057M26       | 10          |
| R3312       | 0662057M38       | 33          |
| R3313       | 0662057M34       | 22          |
| R3314       | 0662057M26       | 10          |
| R3315       | 0662057M62       | 330         |
| R3316       | 0662057M66       | 470         |
| R3317       | 0662057N23       | 100K        |
| R3318       | 0662057M66       | 470         |
| R3321       | 0662057M54       | 150         |
| R3322       | 0662057M58       | 220         |
| R3323       | 0662057M32       | 18          |
| R3324       | 0662057M58       | 220         |
| R3501       | 0662057M61       | 300         |
| R3502       | 0662057M32       | 18          |
| R3503       | 0662057M61       | 300         |

| Circuit Ref | Motorola Part No | Description |
|-------------|------------------|-------------|
| R3505       | 0662057M62       | 330         |
| R3506       | 0662057B62       | 3.9         |
| R3507       | 0662057B62       | 3.9         |
| R3519       | 0680539Z01       | 0.1         |
| R3541       | 0662057N13       | 39K         |
| R3542       | 0662057M92       | 5600        |
| R3543       | 0662057M50       | 100         |
| R3544       | 0662057A25       | 100         |
| R3545       | 0662057A25       | 100         |
| R3546       | 0662057N01       | 12K         |
| R3547       | 0662057N11       | 33K         |
| R3548       | 0662057N07       | 22K         |
| R3551       | 0662057M40       | 39          |
| R3561       | 0662057N01       | 12K         |
| R3562       | 0662057N11       | 33K         |
| R3563       | 0662057N33       | 270K        |
| R3564       | 0662057N35       | 330K        |
| R3569       | 0662057M92       | 5600        |
| R3570       | 0662057M98       | 10k         |
| R3571       | 0662057A27       | 120         |
| R3572       | 0662057A27       | 120         |
| R3573       | 0662057A27       | 120         |
| R3701       | 0662057M50       | 100         |
| R3703       | 0662057M54       | 150         |
| R3704       | 0662057M54       | 150         |
| R3705       | 0662057N11       | 33K         |
| R3721       | 0662057M66       | 470         |
| R3722       | 0662057M74       | 1000        |
| R3723       | 0662057M50       | 100         |
| R3727       | 0662057N23       | 100K        |
| R3741       | 0662057M50       | 100         |
| R3751       | 0662057N30       | 200K        |
| R3752       | 0662057N35       | 330K        |
| R3761       | 0662057N15       | 47K         |
| R3802       | 0662057M50       | 100         |
| R3803       | 0662057M58       | 220         |
| R3804       | 0662057M98       | 10k         |
| R3805       | 0662057N08       | 24K         |
| R3806       | 0662057M34       | 22          |
| R3808       | 0662057M26       | 10          |
| R3811       | 0662057M50       | 100         |
| R3816       | 0662057M74       | 1000        |
| R3817       | 0662057M01       | 0           |
| R3821       | 0662057M58       | 220         |
| R3822       | 0662057M42       | 47          |
| R3823       | 0662057N11       | 33K         |
| R3824       | 0662057N07       | 22K         |
| R3825       | 0662057M38       | 33          |
| R3826       | 0662057M32       | 18          |
| R3828       | 0662057M50       | 100         |
| R3829       | 0662057M01       | 0           |

| Circuit Ref | Motorola Part No | Description                      |
|-------------|------------------|----------------------------------|
| R3831       | 0662057M98       | 10k                              |
| R3832       | 0662057N01       | 12K                              |
| R3833       | 0662057M58       | 220                              |
| R3834       | 0662057M42       | 47                               |
| R3835       | 0662057N15       | 47K                              |
| R3836       | 0662057M98       | 10k                              |
| R400        | 0662057N15       | 47K                              |
| R401        | 0662057M01       | 0                                |
| R405        | 0662057M01       | 0                                |
| R406        | 0662057N20       | 75K                              |
| R407        | 0662057N19       | 68K                              |
| R409        | 0662057M98       | 10k                              |
| R410        | 0662057N23       | 100K                             |
| R411        | 0662057M98       | 10k                              |
| R413        | 0662057M01       | 0                                |
| R414        | 0662057V34       | 180K                             |
| R415        | 0662057V26       | 91K                              |
| R416        | 0662057M98       | 10k                              |
| R418        | 0662057M01       | 0                                |
| R419        | 0662057M67       | 510<br>only GP360, GP380, GP680  |
| R420        | 0662057B46       | 10M<br>only GP360, GP380, GP680  |
| R421        | 0662057M81       | 2000                             |
| R423        | 0662057N21       | 82K                              |
| R424        | 0662057N12       | 36K                              |
| R425        | 0662057N10       | 30K                              |
| R426        | 0662057N35       | 330K<br>only GP360, GP380, GP680 |
| R427        | 0662057M84       | 2700                             |
| R428        | 0662057M10       | 2.2                              |
| R429        | 0662057M98       | 10k                              |
| R431        | 0662057N39       | 470K                             |
| R432        | 0662057N16       | 51K                              |
| R434        | 0662057M62       | 330                              |
| R435        | 0662057M81       | 2000                             |
| R436        | 0662057M01       | 0                                |
| R445        | 0662057N08       | 24K                              |
| R447        | 0662057N51       | 1.5M                             |
| R448        | 0662057M98       | 10k                              |
| R449        | 0662057N08       | 24K                              |
| R450        | 0683962T45       | 68 ohms, 1W                      |
| R451        | 0662057N03       | 15K                              |
| R452        | 0662057N23       | 100K                             |
| R456        | 0662057M01       | 0                                |
| R457        | 0662057M98       | 10k                              |
| R460        | 0662057M90       | 4700                             |
| R461        | 0662057M56       | 180<br>only GP360, GP380, GP680  |
| R462        | 0662057M98       | 10k<br>only GP360, GP380, GP680  |

| Circuit Ref | Motorola Part No | Description                                  |
|-------------|------------------|----------------------------------------------|
| R463        | 0662057M61       | 300                                          |
| R471        | 0662057M92       | 5600                                         |
| R472        | 0662057M93       | 6200                                         |
| R473        | 0662057M26       | 10                                           |
| R475        | 0662057M01       | 0                                            |
| R476        | 0662057N08       | 24K                                          |
| R477        | 0662057M74       | 1000                                         |
| R478        | 0662057M98       | 10k                                          |
| R481        | 0662057N08       | 24K                                          |
| R492        | 0662057M01       | 0                                            |
| R498        | 0662057M98       | 10k                                          |
| R499        | 0662057M98       | 10k                                          |
| R501        | 0662057M70       | 680                                          |
| R502        | 0662057M56       | 180                                          |
| R505        | 0662057M98       | 10k                                          |
| R506        | 0662057N15       | 47K                                          |
| RT400       | 0680590Z01       | THERMISTOR 33K                               |
| S501        | 4080710Z01       | Frequency Switch<br>only GP340, GP640        |
| S501        | 4080710Z02       | Frequency Switch<br>only GP360, GP380, GP680 |
| S502        | 1880619Z02       | Volume Switch                                |
| SH3201      | 2602023X08       | Rx Backend Top Shield                        |
| SH3202      | 2686081B02       | LVZIF shields                                |
| SH3203      | 2686081B03       | 45.1MHz Xtal Filter Shield                   |
| SH3301      | 2686081B01       | Rx Frontend Bottom Shield                    |
| SH3302      | 2686081B05       | Mixer Shield                                 |
| SH3303      | 2686081B06       | Rx Frontend Top Shield                       |
| SH3501      | 2686081B03       | Harmonic Filter Shield                       |
| SH3502      | 2686081B04       | PA driver Shield                             |
| SH3701      | 2680511Z01       | Synthesizer top shield                       |
| SH3702      | 2680511Z01       | Synthesizer bottom shield                    |
| SH3801      | 2680513Z01       | VCO Top Shield                               |
| SH3802      | 2680514Z01       | VCO Bottom Shield                            |
| SH400       | 2680505Z01       | Controller Memory Shield                     |
| SH401       | 2680506Z01       | Controller on-off shield                     |
| SH402       | 2680515Z01       | Controller Microprocessor<br>shield          |
| SH403       | 2680516Z01       | Controller Asfic_Cmp/Audio<br>PA shield      |
| T3301       | 2580541Z01       | Balun transformer                            |
| T3302       | 2580541Z01       | Balun transformer                            |
| U3201       | 5102463J58       | 3.3V Regulator                               |
| U3220       | 5109632D83       | LVZIF IC                                     |
| U3501       | 5185130C65       | VHF/UHF/800 MHZ LDMOS<br>Driver              |
| U3502       | 5185765B28       | PCIC                                         |
| U3503       | 5185963A15       | Temperature Sense                            |
| U3701       | 5185963A27       | LVFRACN Synthesizer IC                       |
| U3711       | 5105739X05       | 5V Regulator                                 |
| U3801       | 5105750U54       | VCO BUFFER IC                                |

| Circuit Ref | Motorola Part No | Description                                |
|-------------|------------------|--------------------------------------------|
| U400        | 5102463J40       | 3.3V Regulator                             |
| U404        | 5185963A53       | ASFIC_CMP                                  |
| U405        | 5102463J36       | Static_RAM_32KX8                           |
| * U406      | 5102463J60       | 512K X 8 Flash Memory                      |
| * U407      | 5102463J64       | 16k X 8 EEPROM                             |
| U409        | 5102226J56       | Microprocessor IC                          |
| U410        | 5102463J57       | 3.3V Regulator<br>only GP360, GP380, GP680 |
| U420        | 5102463J44       | Audio PA                                   |
| VR3501      | 4880140L17       | Zener diode-12V                            |
| VR432       | 4805656W08       | 5.6V Zener diode                           |
| VR433       | 4805656W08       | 5.6V Zener diode                           |
| VR434       | 4802245J73       | ZENER DIODE-6.8V                           |
| VR439       | 4880140L17       | Zener diode-12V                            |
| VR447       | 4802245J74       | ZENER DIODE-10V                            |
| VR448       | 4802245J74       | ZENER DIODE-10V                            |
| VR449       | 4802245J74       | ZENER DIODE-10V                            |
| VR450       | 4802245J74       | ZENER DIODE-10V                            |
| VR460       | 4802245J73       | ZENER DIODE-6.8V                           |
| VR501       | 4802245J73       | ZENER DIODE-6.8V                           |
| VR506       | 4802245J73       | ZENER DIODE-6.8V                           |
| Y3200       | 9186153B01       | Crystal Filter                             |
| Y3761       | 4805875Z04       | 16.8MHz Xtal oscillator (SMD)              |
|             |                  |                                            |
|             | 5480678Z01       | PCB Bar Code Label                         |
|             | 8486062B16       | VHF main PC Board                          |

\* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.