

## TADM11 - Parts List

Function of Solid State Devices 1/3

### CONT/DISP Section

| Ref.No | Description | Type | Function               |
|--------|-------------|------|------------------------|
| IC501  | BR24C08F    | IC   | EEPROM                 |
| IC502  | NC          |      |                        |
| IC503  | NJM78L05UA  | IC   | VOLTAGE REGURATOR      |
| IC505  | UPD78F9418A | IC   | CPU                    |
| IC509  | PST597D     | IC   | CPU RESET              |
|        |             |      |                        |
| D501   | SB20-03P    | DI   | REVERSE BLOCKING DIODE |
|        |             |      |                        |
| Q501   | DTA114EK    | TR   | SW                     |
| Q502   | DTA114EK    | TR   | SW                     |
| Q503   | DTC114TU    | TR   | POWER LATCH            |
| Q504   | DTA114EK    | TR   | SW                     |
| Q505   | 2SB798      | TR   | POWER SW               |
|        |             |      |                        |
| Q509   | 2SC2712GR   | TR   | SW                     |
| Q511   | 2SC2712GR   | TR   | BUFFER                 |
|        |             |      |                        |
| LED501 | LB-302MF    | LED  | 7seg.LED               |
| LED502 | SEL2410G    | LED  | LED                    |
| LED503 | SEL2210R    | LED  | LED                    |
| LED504 | NC          |      |                        |
| LED505 | NC          |      |                        |
|        |             |      |                        |

### MAIN SECTION

| Ref.No | Description | Type | Function              |
|--------|-------------|------|-----------------------|
| IC301  | NJU4066BM   | IC   | ANALOG SWITCH         |
| IC302  | TC4S01F     | IC   | INVERTER              |
| IC303  | NJM4558MD   | IC   | TONE AMP/LPF          |
| IC304  | NJM4558MD   | IC   | LPF                   |
| IC305  | MB15E03L    | IC   | PLL SYNTHESIZER       |
| IC306  | TK83361M    | IC   | FM IF/DET AMP         |
| IC307  | NJM2904M    | IC   | LOOP FILTER           |
| IC308  | NJM4558MD   | IC   | COMPARATOR            |
| IC309  | NJM4558MD   | IC   | HPF                   |
| IC310  | LA5010M     | IC   | VOLTAGE REGURATOR 10V |
| IC311  | NJM78L08UA  | IC   | VOLTAGE REGURATOR 8V  |
| IC312  | TA7252AP    | IC   | AF POWER AMP          |
| IC313  | NJM78L05UA  | IC   | VOLTAGE REGURATOR 5V  |
| IC314  | NJU7201U30  | IC   | VOLTAGE REGURATOR 3V  |
| IC315  | TC7S66FU    | IC   | ANALOG SWITCH         |
| IC316  | TC7S66FU    | IC   | ANALOG SWITCH         |
| IC317  | TC7S66FU    | IC   | ANALOG SWITCH         |
| IC318  | NJM4558MD   | IC   | HPF                   |
|        |             |      |                       |
|        |             |      |                       |
| Q304   | 2SC4083P    | TR   | BUFFER                |
| Q305   | 2SC4116Y    | TR   | SCHMITT TRIGGER       |
| Q306   | 2SC4215Y    | TR   | IF AMP                |
| Q307   | 2SC4116Y    | TR   | SCHMITT TRIGGER       |
| Q308   | 2SK209GR    | FET  | CONSTANT CURRENT      |
| Q309   | 2SK209GR    | FET  | CONSTANT CURRENT      |
| Q310   | 2SK882GR    | FET  | BUFFER                |
| Q311   | 2SC4215Y    | TR   | NOISE AMP             |
| Q312   | 2SK2158     | FET  | MUTE                  |
| Q313   | 2SC4116Y    | TR   | RIPPLE FILTER         |
| Q314   | 2SC4116Y    | TR   | RIPPLE FILTER         |
| Q315   | 2SC4116Y    | TR   | AF AMP                |

|      |          |    |          |
|------|----------|----|----------|
| Q316 | 2SB798   | TR | TX INH   |
| Q317 | 2SD1664Q | TR | POWER SW |

## MAIN SECTION

| Ref.No  | Description | Type | Function                              |
|---------|-------------|------|---------------------------------------|
| Q318    | 2SK2158     | FET  | POWER SW CONT                         |
| Q319    | 2SC4116Y    | TR   | POWER SW                              |
| Q320    | 2SC4083P    | TR   | 1st Local BUFFER                      |
| Q321    | 2SC4116Y    | TR   | POWER SW                              |
| Q322    | 2SC4116Y    | TR   | POWER SW CONT                         |
| Q323    | 2SC1664Q    | TR   | POWER SW                              |
| Q324    | 2SK2158     | FET  | POWER SW CONT                         |
| Q325    | 2SK2158     | FET  | TX INH                                |
| Q326    | 3SK241      | FET  | MIXER                                 |
| Q327    | 2SC4083P    | TR   | RF AMP                                |
| Q328    | 2SK2158     | FET  | MUTE                                  |
| Q329    | 3SK241      | FET  | RF AMP                                |
| Q331    | 2SA1244Y    | TR   | POWER SW                              |
| Q332    | 2SK2158     | FET  | POWER SW CONT                         |
| Q333    | 2SC4093     | TR   | RF DRIVE AMP                          |
| Q334    | 2SK2158     | FET  | SW                                    |
|         |             |      |                                       |
| D301    | MA111       | DI   | REVERSE BLOCKING DIODE                |
| D302    | DA204U      | DI   | NOISE DET                             |
| D303    | MA111       | DI   | IDC                                   |
| D304    | MA111       | DI   | IDC                                   |
| D305    | MA111       | DI   | RECTIFIER                             |
| D306    | HVU306      | DI   | VARACTOR DIODE for DCS modulation     |
| D307    | 1SS312      | DI   | SW                                    |
| D308    | DAN202U     | DI   | TX8/RX8 SW                            |
| D309    | 1SS193      | DI   | SW                                    |
| D310    | MA111       | DI   | RECTIFIER                             |
| D311    | MA111       | DI   | RECTIFIER                             |
| D312    | HVU89       | DI   | VARACTOR DIODE for TUNING CAPACITANCE |
| D313    | HVU89       | DI   | VARACTOR DIODE for TUNING CAPACITANCE |
| D314    | HVU89       | DI   | VARACTOR DIODE for TUNING CAPACITANCE |
| D315    | DA204U      | DI   | CONSTANT VOLTAGE                      |
| D316    | HVU89       | DI   | VARACTOR DIODE for TUNING CAPACITANCE |
| D317    | HVU89       | DI   | VARACTOR DIODE for TUNING CAPACITANCE |
| D318    | SB20-03P    | DI   | REVERSE BLOCKING DIODE                |
| D319    | DA204U      | DI   | LIMMITER                              |
| D320    | MI809       | DI   | ANT SW                                |
| D321    | HVU306      | DI   | VARACTOR DIODE for DCS modulation     |
| D322    | MA111       | DI   | REVERSE BLOCKING DIODE                |
| D323    | MA111       | DI   | REVERSE BLOCKING DIODE                |
|         |             |      |                                       |
| ZD301   | MA8062L     | DI   | CONSTANT VOLTAGE                      |
|         |             |      |                                       |
| UNIT301 | VCO 55-117  | UNIT | VCO                                   |

## PA SECTION

| Ref.No | Description  | Type | Function               |
|--------|--------------|------|------------------------|
| IC501  | RA30H1317M   | IC   | VHF RF POWER MODULE    |
| IC502  | FMW1         | IC   | COMPARE VOLTAGE        |
|        |              |      |                        |
| Q501   | 2SA1313      | TR   | APC CONTROL            |
| Q502   | 2SC4116      | TR   | SW                     |
| Q503   | DTC114TU     | TR   | TR CONT                |
|        |              |      |                        |
| D501   | GP-30B       | DI   | REVERSE BLOCKING DIODE |
| D502   | MA8051M      | DI   | CONSTANT VOLTAGE       |
| D503   | XB15A407A2G8 | DI   | ANT SW                 |
| D504   | 1SS321       | DI   | APC DET                |
| D505   | MI809        | DI   | ANT SW                 |
| D506   | MA111        | DI   | REVERSE BLOCKING DIODE |
| D507   | 1SS383       | DI   | REVERSE BLOCKING DIODE |
|        |              |      |                        |
|        |              |      |                        |
|        |              |      |                        |

## CTCSS/DCS SECTION

| Ref.No | Description | Type | Function       |
|--------|-------------|------|----------------|
| IC1    | MX805       | IC   | TONE GENERATOR |
| IC2    | TC4W66      | IC   | ANALOG SWITCH  |
| IC5    | TC4S01      | IC   | INVERTER       |
|        |             |      |                |
| Q1     | 2SC4116     | TR   | BUFFER         |
|        |             |      |                |
|        |             |      |                |