



**MATERIAL LIST**

REV.

A B

MODEL RAK-12D

SHEET 1 OF 10

| QUAN.<br>PER UNIT | PART NO.    | DESCRIPTION<br>SUPPORTING LISTS | REF. | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |
|-------------------|-------------|---------------------------------|------|---------------|------------------|-------|--------------------------------|
|                   |             |                                 |      | USED ON       | USED TO<br>MOUNT | QUAN. |                                |
| 1                 | RAK-12 (ML) | Rack, Basic                     |      |               |                  |       |                                |

| MATERIAL LIST     |               | REV.                                 |       |               |                  |       |                                |  |  |  |  |  | MODEL | RAK-12D |   |    |    |
|-------------------|---------------|--------------------------------------|-------|---------------|------------------|-------|--------------------------------|--|--|--|--|--|-------|---------|---|----|----|
|                   |               |                                      | A     | B             |                  |       |                                |  |  |  |  |  |       | SHEET   | 2 | OF | 10 |
| QUAN.<br>PER UNIT | PART NO.      | DESCRIPTION<br>ELECTRICAL/MECHANICAL | REF.  | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |  |  |  |  |  |       |         |   |    |    |
|                   |               |                                      |       | USED ON       | USED TO<br>MOUNT | QUAN. |                                |  |  |  |  |  |       |         |   |    |    |
| 6                 | GU-102-3      | Clamp, "G" Type, 1/4D.               |       | A-3072        |                  | 12    |                                |  |  |  |  |  |       |         |   |    |    |
|                   |               |                                      |       | CA-720        |                  | 4     |                                |  |  |  |  |  |       |         |   |    |    |
| 5                 | GU-102-6      | Clamp, "G" Type, 7/16 D.             |       | CA-720        |                  | 5     |                                |  |  |  |  |  |       |         |   |    |    |
| 1                 | GU-102-7      | Clamp, "G" Type, 1/2 D.              |       | A-3072        |                  | 1     |                                |  |  |  |  |  |       |         |   |    |    |
| 2                 | GU-102-13     | Clamp, "G" Type, 7/8 D.              |       | A-3072        |                  | 2     |                                |  |  |  |  |  |       |         |   |    |    |
| 3                 | GU-102-14     | Clamp, "G" Type, 1 D.                |       | A-3072        |                  | 3     |                                |  |  |  |  |  |       |         |   |    |    |
| 1                 | MS-1973-1     | Bracket, Support, Chassis, Right     |       | A-3072        |                  | 1     |                                |  |  |  |  |  |       |         |   |    |    |
| 1                 | MS-1973-2     | Bracket, Support, Chassis, Left      |       | A-3072        |                  | 1     |                                |  |  |  |  |  |       |         |   |    |    |
| 2                 | MS3057-8      | Clamp, Cable                         |       | CA-581        |                  | 2     |                                |  |  |  |  |  |       |         |   |    |    |
| 2                 | MS3106A16S-5S | Connector, Plug, Female              |       | W510          |                  | 1     | P523,                          |  |  |  |  |  |       |         |   |    |    |
|                   |               |                                      |       | W511          |                  | 1     | P524                           |  |  |  |  |  |       |         |   |    |    |
| 2                 | MS3420-6A     | Bushing, Cable                       |       | CA-581        |                  | 2     |                                |  |  |  |  |  |       |         |   |    |    |
| 1                 | NP-103-42     | Nameplate, Identification            | Comm. | A-3072        |                  | 1     | When Required                  |  |  |  |  |  |       |         |   |    |    |
| 1                 | NP-           | Nameplate, Identification            | Navy  | A-3072        |                  | 1     | When Required                  |  |  |  |  |  |       |         |   |    |    |
| 1                 | PL-100        | Connector, Plug, AC Twist Lock       |       | W504          |                  | 1     | P502,                          |  |  |  |  |  |       |         |   |    |    |
| 2                 | PL-147-2      | Plug, Tip                            |       | CA-720        |                  | 2     | P521,522                       |  |  |  |  |  |       |         |   |    |    |
| 3                 | PL-171        | Connector, Plug, AC Twist Lock       |       | W504          |                  | 1     | P503                           |  |  |  |  |  |       |         |   |    |    |
|                   |               |                                      |       | W510          |                  | 1     | P525                           |  |  |  |  |  |       |         |   |    |    |
|                   |               |                                      |       | W511          |                  | 1     | P526                           |  |  |  |  |  |       |         |   |    |    |



**MATERIAL LIST**

REV.

A B

MODEL RAK-12D

SHEET 3 OF 10

| QUAN.<br>PER UNIT | PART NO.    | DESCRIPTION<br>ELECTRICAL/MECHANICAL | REF. | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |
|-------------------|-------------|--------------------------------------|------|---------------|------------------|-------|--------------------------------|
|                   |             |                                      |      | USED ON       | USED TO<br>MOUNT | QUAN. |                                |
| 1                 | TM-105-4AL  | Terminal Board                       |      | CA-720        |                  | 1     | E502                           |
| 1                 | TM-105-4AR  | Terminal Board                       |      | CA-720        |                  | 1     | E506                           |
| 2                 | TM-105-9AR  | Terminal Board                       |      | CA-720        |                  | 2     | E503, 504,                     |
| 5                 | TM-105-12AR | Terminal Board                       |      | CA-720        |                  | 5     | E507, 508, 509, 510, 511       |
| 14                | UG-88/U     | Connector, Plug, RF, BNC             |      | CA-720        |                  | 14    | P507 thru P520                 |

| MATERIAL LIST     |              | REV.                   | A    | B             |                  |       |                                |  |  |  |  |  |  |  |  |  |  | MODEL | RAK-12D |    |    |
|-------------------|--------------|------------------------|------|---------------|------------------|-------|--------------------------------|--|--|--|--|--|--|--|--|--|--|-------|---------|----|----|
|                   |              |                        |      |               |                  |       |                                |  |  |  |  |  |  |  |  |  |  | SHEET | 4       | OF | 10 |
| QUAN.<br>PER UNIT | PART NO.     | DESCRIPTION            | REF. | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
|                   |              |                        |      | USED ON       | USED TO<br>MOUNT | QUAN. |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
|                   |              | HARDWARE               |      |               |                  |       |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 9                 | FW06HBN      | Washer, Flat           |      | CA-720        |                  | 9     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 14                | FW10HBN      | Washer, Flat           |      | A-3072        |                  | 14    |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 9                 | LWE06MRN     | Washer, Lock, External |      | CA-720        |                  | 9     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 14                | LWE10MRN     | Washer, Lock, External |      | A-3072        |                  | 14    |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 9                 | NTH0632BN8   | Nut, Hexagon           |      | CA-720        |                  | 9     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 14                | NTH1032BN12  | Nut, Hexagon           |      | A-3072        |                  | 14    |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 5                 | SCBP0632BN8  | Screw, Machine         |      | CA-720        |                  | 5     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 4                 | SCBP0632BN6  | Screw, Machine         |      | CA-720        |                  | 4     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 14                | SCBP1032BN8  | Screw, Machine         |      | A-3072        |                  | 14    |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 4                 | SFB0256SN3   | Screw, Self Tapping    |      | A-3072        |                  | 4     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 14                | TE-120-2     | Terminal, Lug          |      | CA-720        |                  | 14    |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 3                 | TE-155-34170 | Terminal, Solderless   |      | CA-409-77     |                  | 1     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
|                   |              |                        |      | CA-588-1      |                  | 2     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |
| 1                 | TE-159-34160 | Terminal, Solderless   |      | CA-409-77     |                  | 1     |                                |  |  |  |  |  |  |  |  |  |  |       |         |    |    |

| MATERIAL LIST     |               | REV.                            |             |               |                  |       |                                |  |  |  |  |  | MODEL | RAK 12D |    |    |
|-------------------|---------------|---------------------------------|-------------|---------------|------------------|-------|--------------------------------|--|--|--|--|--|-------|---------|----|----|
|                   |               |                                 |             |               |                  |       |                                |  |  |  |  |  | SHEET | 5       | OF | 10 |
| QUAN.<br>PER UNIT | PART NO.      | DESCRIPTION                     | REF.        | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |  |  |  |  |  |       |         |    |    |
|                   |               |                                 |             | USED ON       | USED TO<br>MOUNT | QUAN. |                                |  |  |  |  |  |       |         |    |    |
|                   | BS-100        | Solder, soft                    |             | CA-581        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   |               |                                 |             | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | CD-101-1-MW   | Cord, Lacing                    | Black       | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
| 0-8               | MWC14(19)U5   | Wire, Electrical                | Green       | CA-409-77     |                  | 8"    |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ1   | Cable, Insulated, Shield/W JKT. | Brown       | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ2   | " " " "                         | Red         |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ3   | " " " "                         | Orange      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ4   | " " " "                         | Yellow      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ5   | " " " "                         | Green       |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ6   | " " " "                         | Blue        |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ7   | " " " "                         | Violet      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ8   | " " " "                         | Grey        |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ9   | " " " "                         | White       |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ90  | " " " "                         | Wh/Blk      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ91  | " " " "                         | Wh/Brn      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ92  | " " " "                         | Wh/Red      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ93  | " " " "                         | Wh/Org.     |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ94  | " " " "                         | Wh/Yell.    |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ95  | " " " "                         | Wh/Grn      |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ96  | " " " "                         | Wh/Blue     |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ97  | " " " "                         | Wh/Vio.     |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ98  | " " " "                         | Wh/GRAY     |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ901 | " " " "                         | Wh/Blk/Brn  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ902 | " " " "                         | Wh/Blk/Rd   |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ903 | " " " "                         | Wh/Blk/Org  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ904 | " " " "                         | Wh/Blk/Yell |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ905 | " " " "                         | Wh/Blk/Grn  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ906 | " " " "                         | Wh/Blk/Blue |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ907 | " " " "                         | Wh/Blk/Vio  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ908 | " " " "                         | Wh/Blk/Gry  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ912 | " " " "                         | Wh/Br/Rd    |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ913 | " " " "                         | Wh/Br/Or    |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ914 | " " " "                         | Wh/Br/Yell  |               |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | LWC22(7)SJ915 | Cable, Insulated, Shield/W JKT. | Wh/Br/Grn   | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | PX-100-1-.263 | Sleeving, Size 2                | Black       | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |



| MATERIAL LIST     |                | REV.                                  |          |               |                  |       |                                |  |  |  |  |  | MODEL | RAK-12D |    |    |
|-------------------|----------------|---------------------------------------|----------|---------------|------------------|-------|--------------------------------|--|--|--|--|--|-------|---------|----|----|
|                   |                |                                       |          |               |                  |       |                                |  |  |  |  |  | SHEET | 6       | OF | 10 |
| QUAN.<br>PER UNIT | PART NO.       | DESCRIPTION<br>RAW MATERIALS          | REF.     | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |  |  |  |  |  |       |         |    |    |
|                   |                |                                       |          | USED ON       | USED TO<br>MOUNT | QUAN. |                                |  |  |  |  |  |       |         |    |    |
|                   | PX-100-1-.438  | Sleeving, Size 7/16                   | Black    | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | PX-100-1-.500  | Sleeving, Size 1/2                    | Black    | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | PX-100-1-1.250 | Sleeving, Size 1-1/4                  | Black    | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
|                   | RG-58/U        | Cable, Coaxial, RF                    |          | CA-720        |                  |       |                                |  |  |  |  |  |       |         |    |    |
| 0-32              | WI-121-6       | Cable, Special Purpose, Two Conductor | Wh/Black | CA-588-1      |                  | 32"   |                                |  |  |  |  |  |       |         |    |    |
| 1                 | WI-134-2-7     | Cable, Power, Coiled, 7" Long         |          | CA-435-3      |                  | 1     |                                |  |  |  |  |  |       |         |    |    |
| 2                 | WI-134-2-12    | Cable, Power, Coiled, 12" Long        |          | CA-581        |                  | 2     |                                |  |  |  |  |  |       |         |    |    |





**MATERIAL LIST**

REV.

A B

MODEL RAK-12D

SHEET 8 OF 10

| QUAN.<br>PER UNIT | PART NO. | DESCRIPTION<br>SPECIFICATIONS  | REF. | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |
|-------------------|----------|--------------------------------|------|---------------|------------------|-------|--------------------------------|
|                   |          |                                |      | USED ON       | USED TO<br>MOUNT | QUAN. |                                |
| S                 |          | Test Procedure                 |      |               |                  |       |                                |
| S-520             |          | Blue-Gray Textured Vinyl Paint |      | MS-1973       |                  |       |                                |

# MATERIAL LIST

REV.

AB

MODEL

RAK-12D

SHEET

9

OF

10

| QUAN.<br>PER UNIT | PART NO.     | DESCRIPTION<br>PARTS PECULIAR | REF. | ITEM LOCATION |                  |       | REF. SYMBOLS<br>AND/OR REMARKS |
|-------------------|--------------|-------------------------------|------|---------------|------------------|-------|--------------------------------|
|                   |              |                               |      | USED ON       | USED TO<br>MOUNT | QUAN. |                                |
|                   |              | BASE MOUNTING                 |      |               |                  |       |                                |
| 4                 | LWS37MRN     | Washer, Lock, Split           |      | A-3072        |                  | 4     |                                |
| 1                 | MS-1901      | Base, Rack                    |      | A-3072        |                  | 1     |                                |
| 4                 | SCHH3716SN16 | Bolt, Hexagon Head            |      | A-3072        |                  | 4     |                                |

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

**MATERIAL LIST**

REV.

A B

MODEL RAK-9D

SHEET 10 OF 10

| QUAN.<br>PER UNIT | PART NO.     | DESCRIPTION<br>PARTS PECULIAR | REF. | ITEM LOCATION |               |       | REF. SYMBOLS<br>AND/OR REMARKS |
|-------------------|--------------|-------------------------------|------|---------------|---------------|-------|--------------------------------|
|                   |              |                               |      | USED ON       | USED TO MOUNT | QUAN. |                                |
|                   |              | SHOCK MOUNTING                |      |               |               |       |                                |
| 4                 | LWS37MRN     | Washer, Lock, Split           |      | A-3072        |               | 4     |                                |
| 4                 | SCHH3716SN16 | Bolt, Hexagon Head            |      | A-3072        |               | 4     |                                |
| 4                 | SH-104-3-T6  | Shock, Isolator               |      | A-3072        |               | 4     |                                |



