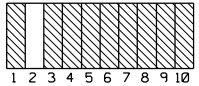
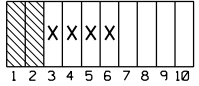


| OPTION GROUP        |                 | OPTION DESCRIPTION AND PART NUMBER                                                                                      |                           |            | ENTER QTY |
|---------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------|------------|-----------|
| BASIC CONSOLE       | SELECT ONE ONLY | VERTICAL CONSOLE<br>AS DEFINED ON SHEET 1 OF THIS DRAWING.<br>INCLUDES 493.10 CHASSIS MOUNTING HARDWARE.                |                           |            |           |
|                     |                 | POWER PANEL                                                                                                             | CONSOLE OUTLET STRIP      |            |           |
|                     |                 | 115VAC IN<br>115VAC OUT                                                                                                 | USA 115VAC STRAIGHT BLADE | 56-134-401 |           |
|                     |                 | 230VAC IN<br>230VAC OUT                                                                                                 | USA 230VAC STRAIGHT BLADE | 56-134-402 |           |
|                     |                 |                                                                                                                         | EUROPEAN 230VAC SCHUKO    | 56-134-403 |           |
|                     |                 |                                                                                                                         | U.K. 230VAC               | 56-134-404 |           |
|                     |                 | HALF HEIGHT ROLL AROUND CONSOLE<br>AS DEFINED ON SHEET 1 OF THIS DRAWING.<br>INCLUDES 493.10 CHASSIS MOUNTING HARDWARE. |                           |            |           |
|                     |                 | POWER PANEL                                                                                                             | CONSOLE OUTLET STRIP      |            |           |
|                     |                 | 115VAC IN<br>115VAC OUT                                                                                                 | USA 115VAC STRAIGHT BLADE | 56-139-301 |           |
|                     |                 | 230VAC IN<br>230VAC OUT                                                                                                 | USA 230VAC STRAIGHT BLADE | 56-139-302 |           |
| CONSOLE ACCESSORIES | SELECT ONE ONLY | 493.10 RACK MOUNTING KIT ▲<br>INCLUDES: SLIDE KIT AND FRONT PANEL WITH LABEL.                                           |                           |            |           |
|                     |                 | 1. REQUIRED WHEN USING VERTICAL OR ROLL AROUND CONSOLES ABOVE.                                                          |                           |            |           |
|                     |                 | 2. FOR USE WHEN THE 493.10 CHASSIS IS TO BE FIELD INSTALLED IN EXISTING CONSOLE.                                        |                           |            |           |
|                     |                 | FOR TESTSTAR IIM                                                                                                        | 56-170-701                |            |           |
|                     |                 | FOR FLEXTES GT                                                                                                          | 56-170-702                |            |           |
|                     |                 | FLOOR STANDING PKG. FOR 493.10 CHASSIS.<br>INCLUDES REMOTE OUTLET STRIP WITH LOCKING WALL PLUG.                         |                           |            |           |
|                     |                 | REMOTE OUTLET STRIP                                                                                                     | MODEL                     |            |           |
|                     |                 | USA 115VAC STRAIGHT BLADE                                                                                               | TESTSTAR IIm              | 56-171-101 |           |
|                     |                 | USA 230VAC STRAIGHT BLADE                                                                                               | TESTSTAR IIm              | 56-171-102 |           |
|                     |                 | EUROPEAN 230VAC SCHUKO                                                                                                  | TESTSTAR IIm              | 56-171-103 |           |
| GND                 | SELECT ONE ONLY | USA 115VAC STRAIGHT BLADE                                                                                               | FLEXTES GT                | 56-171-104 | 1         |
|                     |                 | USA 230VAC STRAIGHT BLADE                                                                                               | FLEXTES GT                | 56-171-105 |           |
|                     |                 | EUROPEAN 230VAC SCHUKO                                                                                                  | FLEXTES GT                | 56-171-106 |           |
|                     |                 | U.K. 230VAC                                                                                                             | FLEXTES GT                | 56-171-107 |           |
|                     |                 | U.K. 230VAC                                                                                                             | TESTSTAR IIm              | 56-171-108 |           |
|                     |                 | CONSOLE BLANK PANELS                                                                                                    |                           |            |           |
|                     |                 | 378140XX                                                                                                                |                           |            |           |
|                     |                 | STORAGE DRAWER(S)<br>VERTICAL CONSOLE ONLY<br>(ONE 3.50 STORAGE DRAWER IS SUPPLIED WITH BASIC VERTICAL CONSOLE ABOVE).  |                           |            |           |
|                     |                 | 372773XX                                                                                                                |                           |            |           |
|                     |                 | COMMON GROUND PACKAGE<br>(REQ'D ONLY IN VERTICAL AND TABLE TOP CONSOLES).                                               |                           |            |           |
| SYSTEM LABEL        | SELECT ONE ONLY | 37-765-003                                                                                                              |                           |            |           |
|                     |                 | LABEL IDENTIFICATION SYSTEM ELECTRONICS                                                                                 |                           |            |           |
|                     |                 | 48-472-601                                                                                                              |                           |            | 1         |

| OPTION GROUP                                            |                 | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |             | ENTER QTY |
|---------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|-----------|
| 493.10 CHASSIS-BASIC                                    | SELECT ONE ONLY | 493.10 CHASSIS-BASIC<br>INCLUDES:<br>1. 493.10 CHASSIS (CE EMC COMPLIANT) MOUNTING HARDWARE SUPPLIED WITH ENCLOSURE OR SELECT SEPARATELY FOR FIELD INSTALLATION.<br>- SEE SYSTEM ACCESSORIES.<br>2. (QTY 1) PROCESSOR MVME 5110 P/N 56-477-401 CPU 0 LOCATED IN CHASSIS SLOT 1.<br>3. JUMPER PLUGS<br>P24- E-STOP IN (QTY1)<br>P25- HPS INTLK/DEFEAT (QTY 1)<br>P29- E-STOP/XHD LOCK (QTY 4)<br>P43- INTERLOCK (QTY 4)<br>4. 493.10 POWER SUPPLY P/N 100-031-143<br>5. CHASSIS FILTER P/N 100-020-714.<br>6. SEE SHEET 2 OF 561390-XX FOR STANDARD MODULE SELECTOR/LOCATOR. |                                                                                       |             |           |
|                                                         |                 | 115VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | W/USA PLUG                                                                            | 56-641-201  | 1         |
|                                                         |                 | 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | W/USA PLUG                                                                            | 56-641-202  |           |
|                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | W/EURO SCHUKO PLUG                                                                    | 56-641-203  |           |
|                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | W/U.K. PLUG                                                                           | 56-641-203  |           |
|                                                         |                 | SECOND POWER PC MVME 5110 PROCESSOR (CPU 1) AND SW LICENSE.<br>NOTE: WHEN SECOND PROCESSOR IS REQUIRED, LOCATE AS SHOWN BELOW.                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                       |             |           |
|                                                         |                 | MODULE SLOT LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    | 100-104-421 |           |
|                                                         |                 | 493.40 I/O CARRIER<br>NOTE: SETUP IS REQUIRED FOR THESE MODULES. SEE SETUP CONFIG. 700-000-763                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                       |             |           |
|                                                         |                 | MODULE SLOT LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |             |           |
|                                                         |                 | NOTE: I/O CARRIER CAN NOT BE SELECTED IN THIS SLOT IF GRES III OPTION IS SELECTED. (SEE SHEET 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |             |           |
| STANDARD 493.10 FRONT PANEL MODULE SELECTIONS/LOCATIONS | SELECT ONE ONLY | CAUTION<br>IF USING ACCEL COMP PACKAGE 563056-XX, ONE FRONT PANEL SLOT LOCATION WILL BE REQUIRED. (SEE SHEET 4 OF 5 FOR PACKAGE DETAILS)                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |             |           |
|                                                         |                 | 100-003-854                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |             | 4         |
|                                                         |                 | 493.10 BLANKS<br>USE TO FILL ALL UNOCCUPIED FRONT PANEL SLOTS<br>SINGLE SLOT BLANK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |             | 4         |
|                                                         |                 | 100-001-702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |             |           |
|                                                         |                 | SHUNT CAL CONNECTOR/LABEL KIT 493.40 CARRIER I/O<br>INCLUDES:<br>1. QTY 10 CONNECTORS AND LABELS FOR SHUNT RESISTORS.<br>USE AS REQUIRED FOR FIELD SHUNT CALS.<br>(SHUNT RESISTORS NOT INCLUDED). SEE SHUNT CAL RESISTOR KIT.                                                                                                                                                                                                                                                                                                                                               |                                                                                       |             |           |
|                                                         |                 | 100-028-185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |             | 4         |

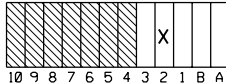
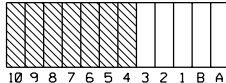
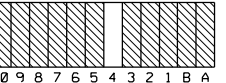
| OPTION GROUP                                                                                                                |                 | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                            |  |  | ENTER QTY |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------|
| STANDARD I/O CARRIER DAUGHTER CARD SELECTIONS/LOCATIONS<br>SEE SHEET 3 FOR OPTIONAL I/O CARRIER MODULE SELECTIONS/LOCATIONS | SELECT ONE ONLY | 493.21B DUC B ▲<br>I/O FRONT PANEL CONNECTOR NUMBERS<br>J4<br>J5<br>J6<br>J7<br>I/O CARRIER LOCATED IN SLOT<br>(USE 560914-01 FOR TYTRON 250 AC COND) MODIFIED FOR ALTERNATE EXCITATION FREQ. |  |  |           |
|                                                                                                                             |                 | ATTACH DUC B TO I/O CONN<br>J101 & J102<br>J201 & J202<br>STANDARD 53-476-101<br>560914XX                                                                                                     |  |  |           |
|                                                                                                                             |                 | 493.25 FULL RANGE DUC ▲<br>I/O FRONT PANEL CONNECTOR NUMBERS<br>J4<br>J5<br>J6<br>J7<br>I/O CARRIER LOCATED IN SLOT<br>MODIFIED FOR ALTERNATE EXCITATION FREQ.                                |  |  |           |
|                                                                                                                             |                 | ATTACH DUC TO I/O CONN<br>J101 & J102<br>J201 & J202<br>STANDARD 100-109-659<br>564174XX                                                                                                      |  |  | 6         |
|                                                                                                                             |                 | 493.14 VALVE DRIVER (STANDARD)<br>I/O FRONT PANEL CONNECTOR NUMBERS<br>J4<br>J5<br>J6<br>J7<br>I/O CARRIER LOCATED IN SLOT<br>FULL SCALE CURRENT                                              |  |  |           |
|                                                                                                                             |                 | ATTACH VALVE DR TO I/O CONN<br>J401 & J402<br>STANDARD 48-934-001<br>548713XX                                                                                                                 |  |  | 4         |
|                                                                                                                             |                 | 493.15B 3 STAGE VALVE DRIVER<br>I/O FRONT PANEL CONNECTOR NUMBERS<br>J4<br>J5<br>J6<br>J7<br>I/O CARRIER LOCATED IN SLOT<br>ATTACH 3 STAGE VD TO I/O CONN                                     |  |  |           |
|                                                                                                                             |                 | J401 & J402<br>100-109-974                                                                                                                                                                    |  |  | 2         |
|                                                                                                                             |                 | SHUNT CAL RESISTOR KIT 493.40/41 CARRIER I/O<br>ONE REQUIRED FOR EACH DC COND REQUIRING SHUNT CALIBRATION.                                                                                    |  |  |           |
|                                                                                                                             |                 | 100-045-544                                                                                                                                                                                   |  |  | 4         |

| UNLESS OTHERWISE SPECIFIED                                                                                                       |  | .XXX HOLE SIZE TOLERANCE      |  | DRAWN RSD              |  | CHECK ENGR   |  | MFG                    |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|------------------------|--|--------------|--|------------------------|--|
| MATERIAL DESCRIPTION                                                                                                             |  | 0.000 TO .750<br>+.010/- .002 |  | DATE                   |  | DATE         |  | DATE                   |  |
| MATERIAL SIZE                                                                                                                    |  | OVER .750<br>+.015/- .003     |  | DATE                   |  | DATE         |  | DATE                   |  |
| FINISH                                                                                                                           |  | MASK                          |  | ANGLE ±2°              |  | TITLE        |  | CONFIGURATION DRAWING- |  |
| • THREAD DEPTHS ARE TO MIN FULL THDS<br>• DRILL DEPTHS ARE TO FULL DIA<br>• REMOVE BURRS AND SHARP EDGES<br>• DO NOT SCALE PRINT |  | SCALE NONE                    |  | .XX ±.03<br>.XXX ±.010 |  | NEXT LEVEL   |  | SIZE                   |  |
| MACHINED SURFACES 180°                                                                                                           |  | THIRD ANGLE PROJ.             |  | PRODUCT CODE           |  | NUMBER       |  | REV                    |  |
| MTS SYSTEMS CORPORATION<br>EDEN PRAIRIE, MINNESOTA U.S.A. ©                                                                      |  | 493.XX                        |  | D                      |  | 100-112-739  |  | C                      |  |
|                                                                                                                                  |  |                               |  |                        |  | SHEET 1 OF 3 |  |                        |  |

| REVISIONS                                |  | LETTER                                                                                                                                                                                                                                                                                                                                        |  | RULE 1 |  |
|------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|
| DESCRIPTION                              |  | B                                                                                                                                                                                                                                                                                                                                             |  | RULE 1 |  |
| DRAWN ENGR DATE                          |  | C                                                                                                                                                                                                                                                                                                                                             |  | RULE 1 |  |
| CHANGED 493.25A TO 493.25B (100-109-659) |  | 8-03                                                                                                                                                                                                                                                                                                                                          |  |        |  |
| CHANGED 493.15 TO 493.15B (100-109-974)  |  | 9-03                                                                                                                                                                                                                                                                                                                                          |  |        |  |
| SOURCE/REF DRAWING: 700-000-654          |  | PROPRIETARY DATA                                                                                                                                                                                                                                                                                                                              |  |        |  |
|                                          |  | The information and design(s) disclosed herein are the property of MTS Systems Corporation and may not be used, reproduced or disclosed in any form except as granted in writing by MTS Systems Corporation. This restriction excludes information that is in the public domain or was legitimately in the prior possession of the recipient. |  |        |  |

| OPTION GROUP                                           | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| STANDARD 493.10 REAR PANEL MODULE SELECTIONS/LOCATIONS | 493.73 HPU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |           |
|                                                        | <div>REAR PANEL SLOT LOCATION →<div><div>X</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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|  |  |  |           |

| OPTION GROUP                                                 | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | ENTER QTY |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-----------|
| OPTIONAL 493.40 I/O CARRIER DAUGHTER CARD SELECTION/LOCATION | 493.25 IS THE STANDARD DUC TO BE USED WITH FT GT AND TSII <sub>m</sub> .                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.21B DUC B                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.25 FULL RANGE DUC                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.45 A/D                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.46 D/A                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.47 HIGH SPEED ENCODER                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.48 ACCEL COND DAUGHTER BD                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |           |
|                                                              | LOCATE OPTIONAL I/O DAUGHTER CARDS IN J6 LOCATION ON I/O CARRIER CARD.                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |           |
|                                                              | 493.40 I/O CARRIER LOCATED IN FRONT PANEL                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |           |
|                                                              | NOTE: FOR CUSTOM CONFIGURATION, IF ADDITIONAL SPACE IS NEEDED FOR I/O CARRIER DAUGHTER CARDS, THEY CAN BE LOCATED IN THE UNUSED I/O CARRIER SLOTS OR AN ADDITIONAL 493.40 I/O CARRIER CARD CAN BE ADDED (IF SPACE ALLOWS) TO SUPPORT THESE ADDITIONAL NEEDS. |  |  |  |  |  |  |  |  |  |           |
| D/A & A/D INTERCONNECT                                       | CABLING TO ANALOG INPUT & OUTPUT AND FILTERED INPUT TRANSITION MODULES.                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |           |
|                                                              | SELECT AND LOCATE AS REQUIRED                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT 3 P6 100-006-173 P11 P12 TO REAR PANEL SLOT 1                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT 4 P6 100-006-173 P11 P12 TO REAR PANEL SLOT 2                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
| D/A & A/D INTERCONNECT                                       | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | TO I/O CARRIER LOCATED IN SLOT P6 100-006-173 P11 P12 TO REAR PANEL SLOT                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |           |
|                                                              | 100-006-173                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | 2         |

| OPTION GROUP                                                    | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                       |            | ENTER QTY |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| OPTIONAL ANALOG INPUT, ANALOG OUTPUT AND FILTERED INPUT MODULES | 493.77 FILTERED INPUT BNC                                                                                                                                                |            |           |
|                                                                 | REAR PANEL SLOT LOCATION                                                              |            |           |
|                                                                 | NOTE: OTHER FILTER OPTIONS ARE AVAILABLE, AS CUSTOM, SEE DRAWING 560137XX.                                                                                               |            |           |
|                                                                 | 300HZ FILTER CH 1-6                                                                                                                                                      | 56-013-705 | 1         |
|                                                                 | 300HZ FILTER CH 7-12                                                                                                                                                     | 56-013-710 |           |
|                                                                 | 300HZ FILTER CH 13-18                                                                                                                                                    | 56-013-711 |           |
|                                                                 | 300HZ FILTER CH 19-24                                                                                                                                                    | 56-013-712 |           |
|                                                                 | 493.75 ANALOG INPUT BNC                                                                                                                                                  |            |           |
|                                                                 | REAR PANEL SLOT LOCATION                                                              |            |           |
|                                                                 | 100-008-984                                                                                                                                                              |            | 1         |
| SELECT ONE MODULE PER REAR SLOT LOCATION ONLY                   | 493.76 ANALOG OUTPUT BNC                                                                                                                                                 |            |           |
|                                                                 | REAR PANEL SLOT LOCATION                                                              |            |           |
|                                                                 | 100-008-986                                                                                                                                                              |            |           |
|                                                                 | CAUTION<br>IF USING ACCEL COMP PACKAGE 563056XX, ONE REAR PANEL SLOT LOCATION WILL BE REQUIRED. (SEE SHEET 4 OF 5 FOR PACKAGE DETAILS)                                   |            |           |
| OPTIONAL 493.72 USER DIGITAL I/O                                | 493.72 USER DIGITAL I/O                                                                                                                                                  |            |           |
|                                                                 | REAR PANEL SLOT LOCATION                                                            |            |           |
|                                                                 | REMOTE DIGITAL I/O ACCESS PKG<br>INCLUDES:<br>1. REMOTE DIGITAL I/O ACCESS BOX 16 IN 16 OUT.<br>2. 493.72 MODULE.<br>3. QTY 2 INTERCONNECT CABLES P/N 50-710-802 (6 FT). |            |           |
|                                                                 | 100-029-103                                                                                                                                                              |            |           |

| REVISIONS                                                                                                                                                                                                                                                                                                                                                         |       |           |             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------------|---------|
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                       |       |           | LETTER      | ECN NO. |
| DRAWN                                                                                                                                                                                                                                                                                                                                                             | ENGR  | DATE      |             |         |
| SEE SHEET 1                                                                                                                                                                                                                                                                                                                                                       |       |           |             |         |
| SOURCE/REF DRAWING:                                                                                                                                                                                                                                                                                                                                               |       |           |             |         |
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| DRAWN RSD                                                                                                                                                                                                                                                                                                                                                         | CHECK | ENGR RSD  | MFG         |         |
| DATE 5-03                                                                                                                                                                                                                                                                                                                                                         | DATE  | DATE 5-03 | DATE        |         |
| TITLE<br>CONFIGURATION DRAWING-FLEXTEST US1.22596.810-40                                                                                                                                                                                                                                                                                                          |       |           |             |         |
| NEXT LEVEL                                                                                                                                                                                                                                                                                                                                                        |       | SIZE      | NUMBER      | REV     |
| PRODUCT CODE 493.XX                                                                                                                                                                                                                                                                                                                                               |       | D         | 100-112-739 | C       |
| SHEET 2 OF 3                                                                                                                                                                                                                                                                                                                                                      |       |           |             |         |

| UNLESS OTHERWISE SPECIFIED                                                                                                       |  |                               |                                    |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|------------------------------------|--|
| MATERIAL DESCRIPTION                                                                                                             |  | .XXX HOLE SIZE TOLERANCE      |                                    |  |
| MATERIAL SIZE                                                                                                                    |  | 0.000 TO .750<br>+.010/- .002 | OVER .750 TO 1.500<br>+.015/- .003 |  |
| FINISH                                                                                                                           |  | ANGLE ±2°                     | TITLE                              |  |
| • THREAD DEPTHS ARE TO MIN FULL THDS<br>• DRILL DEPTHS ARE TO FULL DIA<br>• REMOVE BURRS AND SHARP EDGES<br>• DO NOT SCALE PRINT |  | SCALE NONE                    | XXX ±.03                           |  |
| MACHINED SURFACES 180°                                                                                                           |  | THIRD ANGLE PROJ.             | PRODUCT CODE 493.XX                |  |
| MTS SYSTEMS CORPORATION<br>EDEN PRAIRIE, MINNESOTA U.S.A. ©                                                                      |  | SHEET 2 OF 3                  |                                    |  |

NOTES: SEE SHEET 1.

| OPTION GROUP              | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                           |            | ENTER QTY |  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--|
| OPTIONAL GRES III PACKAGE | <div>498.71B GRES PACKAGE</div> <div>INCLUDES:</div> <div>1. QTY ONE 498.71B GRESS III MODULE LOCATED IN SLOT 2 OR 10 OF CHASSIS FRONT.</div> <div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div><div>X</div>FRONT</div> <div>2. JUMPER PLUG P/N 46-350-703 (TO BE INSTALLED ON P6 OF GRES III MODULE).</div> <div>3. QTY ONE 493.71 RS485 SERIAL TRANSITION MODULE LOCATED IN SLOT 10 OF CHASSIS REAR.</div> <div><div>X</div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>B</div><div>A</div></div> REAR <div>4. QTY ONE INTERCONNECT CABLE P/N 49-876-501.</div> <div>NOTE:</div> <div>THIS PACKAGE IS USED FOR SERIAL COMMUNICATION FOR:</div> <div>1. 409.83 TEMPERATURE CONTROL</div> <div>2. REMOTE STATION CONTROL</div> <div>QTY 1 OF THIS PACKAGE WILL SUPPORT UP TO FOUR 493.05 REMOTE STATION CONTROLS.</div> <div>MAXIMUM OF QTY 1 PER CHASSIS.</div> <div>100-021-759</div> |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                           |            | 1         |  |
|                           | OPTIONAL REMOTE STATION CONTROL (RSC)<br>QTY 1 OF ABOVE GRES III PACKAGE REQUIRED FOR RSC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REQUIRED<br>SELECT ONE ONLY                                                                                                                                                                                                                                                                                      | <div><div></div>493.05 REMOTE STATION CONTROL (RSC)</div>                                                                                                                 |            |           |  |
| WITH E-STOP               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  | ENGLISH                                                                                                                                                                   | 50-151-001 |           |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  | GERMAN                                                                                                                                                                    | 50-151-002 |           |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  | FRENCH                                                                                                                                                                    | 50-151-003 |           |  |
| W/STA STOP                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  | ENGLISH                                                                                                                                                                   | 50-151-011 | 2         |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GERMAN                                                                                                                                                                                                                                                                                                           | 50-151-012                                                                                                                                                                |            |           |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FRENCH                                                                                                                                                                                                                                                                                                           | 50-151-013                                                                                                                                                                |            |           |  |
| REQUIRED                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>SYSTEM CABLE-RS485 SERIAL TRANSITION TO 493.05 RSC</div> <div>NOTE:1 CABLE REQUIRED PER RSC.</div> <div>THESE CABLES ARE SELECTED ON SYSTEM CABLE/JUMPER PLUG DRAWING P/N 700-000-656</div> <div>FOR REMOTE STATION CONTROL</div> <div>WITH E-STOP → 556342XX</div> <div>WITH STATION STOP → 556343XX</div> |                                                                                                                                                                           |            |           |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OPTION<br>▽                                                                                                                                                                                                                                                                                                      | <div>493.05 SUPPORT ARM</div> <div>FOR REMOTE STATION CONTROL.</div> <div>318 STANDARD</div> <div>LOAD FRAME MOUNT → 52-507-601</div> <div>FLOOR MOUNT → 52-507-604</div> |            |           |  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                           |            |           |  |

| OPTION GROUP                               | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ENTER QTY                                                                                                 |  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--|
| OPTIONAL ACCELERATION COMPENSATION PACKAGE | <p>493 ACCELERATION COMPENSATION, 1 &amp; 2 CH PACKAGE</p> <p>PACKAGES INCLUDE:</p> <ol style="list-style-type: none"><li>QTY (1) 493.40S I/O CARRIER CONFIGURED FOR ACCEL COMPENSATION, P/N 100-052-487.</li><li>493.21 DUC/DUCS MODIFIED FOR ACCEL COMPENSATION, P/N 100-024-008.<br/>QTY (1) FOR TAB-01<br/>QTY (2) FOR TAB-02</li><li>QTY (1) 493.48 ACCEL COMP MODULE, P/N 100-011-578.</li><li>QTY (1) 493.78 ACCEL INPUT MODULE, (REAR PANEL TRANSITION MODULE) P/N 100-013-651.</li><li>QTY (1) INTERCONNECT CABLE, 493.78 TO 493.48, P/N 100-053-292.</li></ol> <p>NOTES:</p> <ol style="list-style-type: none"><li>ACCEL COMPENSATION PACKAGES (56-305-601 &amp; -02) ARE USED FOR ACCEL COMPENSATION OF UP TO 2 TRANSDUCERS. THE TRANSDUCERS BEING COMPENSATED (LOAD CELLS, TORQUE CELLS, ETC.) MUST BE CONDITIONED BY THE MODIFIED 493.21 DUC/DUCS LOCATED ON THE MODIFIED 493.40S I/O CARRIER CARD SLOTS J4 &amp; J5, PER PACKAGE DRAWING.</li><li>THE SYSTEM CABLING BETWEEN THE LOAD CELL ACCELEROMETER AND THE ACCEL COMP MODULE IS NOT INCLUDED WITH THIS PACKAGE AND SHOULD BE SELECTED ON CABLE SELECTOR DRAWING 700-000-656 SHEET 4 OF 4.</li></ol> <p>FOR LOAD CELLS WITH INTERNALLY INTEGRATED ACCELEROMETERS USE CABLE 533726XX.</p> <p>FOR LOAD CELLS WITH EXTERNALLY MOUNTED ACCELEROMETERS USE CABLE 11-434-407.</p> <div><div>CAUTION</div><p>THIS ACCEL COMPENSATION PACKAGE WILL REQUIRE THE FOLLOWING, 1 FRONT PANEL SLOT LOCATION (FOR THE MODIFIED 493.40 I/O CARRIER), 1 REAR PANEL SLOT LOCATION (FOR THE 493.78 ACCEL INPUT TRANSITION MODULE).</p><p>MAKE SURE YOU ARE NOT USING A FRONT OR REAR SLOT LOCATION WHICH HAS BEEN ALLOCATED TO ANOTHER MODULE.</p></div> <p>LOCATE MODIFIED 493.40S I/O CARRIER IN FRONT PANEL SLOT SHOWN BELOW.</p> <div><div>493.10 CHASSIS FRONT PANEL SLOT LOCATIONS</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>FRONT</div></div> <p>LOCATE 493.78 ACCEL INPUT MODULE IN REAR PANEL SLOT SHOWN BELOW.</p> <div><div>493.10 CHASSIS REAR PANEL SLOT LOCATIONS</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>REAR</div></div> |                                                                                                           |  |
|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div><div>1 CHANNEL</div><div>56-305-601</div></div> <div><div>2 CHANNEL</div><div>56-305-602</div></div> |  |

| OPTION GROUP                                   | OPTION DESCRIPTION<br>AND PART NUMBER                                                                                                                                                                                                                                                                                                                   |             | ENTER QTY |  |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--|
| 1 CH REMOTE SETPOINT<br>PKG 493.XX CONTROLLERS | 1 CH. REMOTE SETPOINT PKG,<br>INCLUDES:<br>1. 1 CH. REMOTE SETPOINT POD<br>P/N 54-379-301.<br>2. ADAPTER CABLE, P/L 100-051-058<br><br>NOTE:<br>493.47 HIGH SPEED ENCODER IS NOT<br>INCLUDED IN THIS PKG. IT MUST BE<br>SELECTED AND LOCATED ON SHEET<br>3 OF 5 OF THIS CONFIGURATION.                                                                  |             |           |  |
|                                                | 50 FT                                                                                                                                                                                                                                                                                                                                                   | 56-286-401  |           |  |
|                                                | 75 FT                                                                                                                                                                                                                                                                                                                                                   | 56-286-402  |           |  |
| OPTIONAL MULTI COMPUTER INTERFACE              | PC-PER-STATION PKG<br>-COMPUTERS NOT INCLUDED<br><br>INCLUDES:<br>1. ETHERNET ADAPTERS (2, 3 OR 4)<br>2. ETHERNET HUBS (2)<br>SUPPLIED W/115VAC-13VDC USA<br>ADAPTERS.<br><br>-FOR OTHER REQUIREMENTS<br>SELECT BELOW.<br>3. 10 BASE T INTERCONNECT CABLING<br>4. COMPONENT LABELING.                                                                   |             |           |  |
|                                                | COMPUTERS (NOT INCL)                                                                                                                                                                                                                                                                                                                                    |             |           |  |
|                                                | 1 MASTER, 1 SLAVE                                                                                                                                                                                                                                                                                                                                       | 52-531-501  | 1         |  |
|                                                | 1 MASTER, 2 SLAVES                                                                                                                                                                                                                                                                                                                                      | 52-531-502  |           |  |
|                                                | 1 MASTER, 3 SLAVES                                                                                                                                                                                                                                                                                                                                      | 52-531-503  |           |  |
|                                                | 100 & 230VAC/13VDC ADAPTERS<br><br>FOR ETHERNET HUB<br>-115VAC USA SUPPLIED W/HUB                                                                                                                                                                                                                                                                       |             |           |  |
|                                                | 100VAC JAPAN                                                                                                                                                                                                                                                                                                                                            | 56-518-301  |           |  |
|                                                | 230VAC USA<br>(SCHUKO + ADAPTER)                                                                                                                                                                                                                                                                                                                        | 56-518-302  |           |  |
|                                                | 230VAC SCHUKO                                                                                                                                                                                                                                                                                                                                           | 56-518-303  | 2         |  |
|                                                | 240VAC UK                                                                                                                                                                                                                                                                                                                                               | 56-518-304  |           |  |
| SYSTEM ACCESSORIES                             | MATING CONNECTOR KIT<br><br>NOT REQUIRED UNLESS CUSTOMER IS GOING<br>TO BUILD CABLES.<br>(SEE PKG FOR CONTENTS)                                                                                                                                                                                                                                         |             |           |  |
|                                                | 56-143-202                                                                                                                                                                                                                                                                                                                                              |             |           |  |
|                                                | 493.10 AIR FILTER ASSY<br><br>REPLACEMENT FILTER,<br>FOR REF ONLY.                                                                                                                                                                                                                                                                                      |             |           |  |
|                                                |                                                                                                                                                                                                                                                                                                                                                         | 100-020-714 |           |  |
| SYSTEM CABLES                                  | SYSTEM CABLES<br><br>MUST BE SELECTED FROM SYSTEM<br>CABLE SELECTOR 700-000-656.                                                                                                                                                                                                                                                                        |             |           |  |
| HPS INTERFACE                                  | 493.07 HPS CONVERTER BOX<br> PROVIDES INTERFACE BETWEEN<br>493.10 AND HYDRAULIC<br>POWER SUPPLY.<br><br>-REQUIRED ON ALL SYSTEMS<br>IF THE 493.XX CHASSIS<br>IS CONTROLLING A HPS.<br>-NOT REQUIRED IF HPS HAS 24VDC<br>PLC CONTROL<br>-NOT REQUIRED WITH 505 PUMP |             |           |  |
|                                                | HPS CONTROL VOLTAGE 24VDC                                                                                                                                                                                                                                                                                                                               | 49-969-401  |           |  |
|                                                | HPS CONTROL VOLTAGE 115VDC                                                                                                                                                                                                                                                                                                                              | 49-969-403  |           |  |

| OPTION GROUP | OPTION DESCRIPTION AND PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ENTER QTY  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| VALVE DRIVER | <b>448.16C VALVE DRIVER PKG</b><br>INCLUDES:<br>1. 448.16C HI RESPONSE VALVE DRIVER.<br>■ (115VAC INPUT)<br>2. COMMAND CABLE FROM 493.10 I/O CONNECTOR TO 448.16C VALVE DRIVER.<br>3. 1.75 BLANK PANEL (RACK MTD PKG.).<br>● SYSTEM CABLES ARE NOT INCLUDED.<br>1. 493.10 TO VALVE LVDT<br>2. 448.16C TO SERVOVALVE<br>3. 448.16C TO SERVOVALVE VELOCITY XDCR<br><br>448.16C RACK MOUNT — <table><tr><td>56-139-601</td></tr></table><br>448.16C STAND ALONE — <table><tr><td>56-139-602</td></tr></table> | 56-139-601 | 56-139-602 | 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|              | 56-139-601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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[illegible]

NOTES: SEE SHEET 1

|                                                                                                                                                   |  |                                                                                                            |                       |                                                     |                   |                       |              |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------|-------------------|-----------------------|--------------|----------|
| UNLESS OTHERWISE SPECIFIED                                                                                                                        |  |                                                                                                            |                       |                                                     | of the recipient. |                       |              |          |
| MATERIAL DESCRIPTION                                                                                                                              |  | .XXX HOLE SIZE TOLERANCE                                                                                   |                       |                                                     | DRAWN<br>RSD      | CHECK                 | ENGR<br>RSD  | MFG      |
| MATERIAL SIZE                                                                                                                                     |  | 0.000<br>OVER .750<br>+.010/- .002    +.015/- .003                                                         |                       |                                                     | DATE<br>5-03      | DATE                  | DATE<br>5-03 | DATE     |
| FINISH                                                                                                                                            |  | MASK<br>              | GENERAL<br>TOLERANCES | TITLE                                               |                   |                       |              |          |
| • THREAD DEPTHS ARE TO MIN FULL THDS<br>• DRILL DEPTHS ARE TO FULL DIA<br>• REMOVE BURRS AND SHARP EDGES<br>• DO NOT SCALE PRINT                  |  | SCALE<br>NONE                                                                                              |                       | CONFIGURATION DRAWING-<br>FLEXTEST US1.22596.810-40 |                   |                       |              |          |
|                                                                                                                                                   |  | MACHINED SURFACES<br>180°                                                                                  |                       | NEXT LEVEL                                          |                   |                       |              |          |
|                                                                                                                                                   |  | THIRD ANGLE PROJ.<br> |                       | SIZE<br>D                                           |                   | NUMBER<br>100-112-739 |              | REV<br>C |
|  MTS SYSTEMS CORPORATION<br>EDEN PRAIRIE, MINNESOTA U.S.A. © |  |                                                                                                            |                       | PRODUCT CODE<br>493.XX                              |                   | SHEET 3 OF 3          |              |          |