

HUI

Human User Interface for Digital Audio Workstations

| PART# | REV | DESCRIPTION | PAGE |
|------------|-----|--------------------------|------|
| 090-068-00 | B00 | FINAL ASSEMBLY HUI 120V | 2 |
| 055-102-02 | D35 | PCB ASSY CONTROL SURFACE | 4 |
| 050-102-02 | D33 | PCB AUTO CONTROL SURFACE | 7 |
| 055-105-00 | B13 | PCB ASSY DCA | 11 |
| 050-105-00 | B13 | PCB AUTO DCA | 12 |
| 055-106-00 | B33 | PCB ASSY BRAIN | 14 |
| 050-106-00 | B32 | PCB AUTO BRAIN | 15 |
| 055-156-00 | A75 | PCB ASSY ANALOG I/O | 16 |
| 050-156-00 | A75 | PCB AUTO ANALOG I/O | 18 |
| 055-158-00 | A62 | PCB ASSY SERVO | 17 |
| 050-158-00 | A62 | PCB AUTO SERVO | 19 |
| 055-165-00 | A32 | PCB ASSY DIGITAL INPUT | 21 |
| 050-165-00 | A32 | PCB AUTO DGTL INPUT | 22 |
| 055-166-00 | A22 | PCB ASSY DIGITAL OUTPUT | 23 |
| 050-166-00 | A22 | PCB AUTO DIGITAL OUTPUT | 24 |
| 055-216-00 | B22 | PCB ASSY FADER | 25 |
| 050-216-00 | B22 | PCB AUTO FADER | 26 |
| 080-033-00 | A5 | SA POWER SUPPLY | 27 |
| 055-107-00 | B10 | PCB ASSY POWER SUPPLY | 28 |
| 080-042-00 | A31 | SA JOG SWITCH | 29 |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



090-068-00 REV B00 FINAL ASSEMBLY HUI 120V

| PART# | REV | DESCRIPTION | QTY | NOTES |
|--------------|-----|-----------------------------|-----|-------------|
| 040-158-00 | A | RIB 28GA 34C 2.75IN PLZD | 1 | |
| 040-165-00 | B | RIB 18GA 7C .156 7.5IN | 1 | |
| 040-166-00 | B | RIB 18GA 5C .156 8.0IN | 1 | |
| 040-168-00 | A | RIB 18GA 7C .156 6.00IN | 1 | |
| 040-169-00 | B | CBL ASSY 24GA 3/2C .1 17. | 1 | |
| 040-170-00 | A | RIB 22GA 5C .100 2.00IN | 1 | |
| 040-171-00 | B | RIB 18GA 8C .156 6.0IN | 1 | |
| 040-283-00 | A | RIB 18GA 7C .156 4.5IN | 1 | |
| 055-102-02 | D35 | PCB ASSY CNTRL SURF - HUI | 1 | SEE PAGE 4 |
| 055-105-00 | B13 | PCB ASSY DCA - HUI | 1 | SEE PAGE 11 |
| 055-106-00 | B33 | PCB ASSY BRAIN - HUI | 1 | SEE PAGE 14 |
| 055-156-00 | A75 | PCB ASSY ANALOG I/O - HUI | 1 | SEE PAGE 16 |
| 055-158-00 | A62 | PCB ASSY SERVO - HUI | 1 | SEE PAGE 18 |
| 055-165-00 | A32 | PCB ASSY DGTL INPUT - HUI | 1 | SEE PAGE 21 |
| 055-166-00 | A22 | PCB ASSY DGTL OUTPUT HUI | 1 | SEE PAGE 23 |
| 055-216-00 | B22 | PCB ASSY FADER - HUI | 1 | SEE PAGE 25 |
| ! 080-033-00 | A5 | SA PWR SPLY - HUI | 1 | SEE PAGE 27 |
| 080-042-00 | A31 | SA JOG SWITCH - HUI | 1 | SEE PAGE 29 |
| 080-043-00 | A2 | SA DISPLAY - HUI | 1 | |
| 080-045-03 | A | SA EPROM PRGMD V1.45 HUI | 1 | |
| 091-073-00 | A | BROCHURE - HUI ENGLISH | 1 | |
| 091-121-00 | A | HUI MOUSE PAD | 1 | |
| 550-251-00 | C1 | METER BRIDGE - HUI | 1 | |
| 550-253-00 | B1 | SIDE PANEL LEFT - HUI | 1 | |
| 550-254-00 | B1 | SIDE PANEL RIGHT - HUI | 1 | |
| 550-292-00 | A1 | BRACKET ANALOG SHIELD - HUI | 1 | |
| 550-379-00 | A1 | PAINT BOTTOM COVER - HUI | 1 | |
| 550-388-00 | A1 | TOP PANEL - HUI | 1 | |
| 551-041-00 | A1 | EXTR PNT MTR BR RIDGE HUI | 1 | |
| 552-017-00 | B10 | JOG WHEEL - HUI | 1 | |
| ! 640-001-00 | D | LC IEC SJT 10A/125V 6FT | 1 | LINECORD |
| 700-011-00 | A | MCH 4-40X1/4 BUTTNSKT BLKX | 44 | |
| 700-011-01 | A | MCH 4-40X3/16 BUTTNSKT BLKX | 16 | |
| 700-028-00 | B | SEMS 6-32X1/4 PHP BLKZC | 46 | |
| 700-045-04 | A | SEMS 10-32X3/8 PHP BLKZC | 22 | |
| 700-055-00 | A | MCH 4-24X3/8 PHP BLK HILO | 6 | |
| 700-082-00 | A | SET 6-32X1/8 CUP ALLOY | 1 | |
| 701-005-00 | A | SM A-AB 6X1/4 PHP BLKZC | 3 | |
| 701-006-03 | A | SM B 8X1/2 PHP ZC | 4 | |
| 705-003-00 | B | NUT HEX-SPLD W/400-214-00 | | |
| 705-015-00 | A | NUT SLOT NCKL | 4 | |
| 705-021-00 | B | NUT CAP 1/2 DIA OD STLZC | 3 | |
| 706-017-00 | A | STDF 4-40X.25 JACKSCREW | 4 | |

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Final assembly continued...







| PART# | REV | DESCRIPTION | QTY | NOTES |
|------------|-----|---------------------------|-----|-------|
| 710-002-00 | B | WASHER-SPLD W/400-214-00 | | |
| 710-008-00 | A | WASH SPLTLCK NO.4 | 17 | |
| 710-019-00 | A | WASH FIBRE BLK | 4 | |
| 710-029-00 | A | WASH FELT .063X1.25X.5 | 1 | |
| 750-004-00 | A | FOOT #10 BLK 1 X .562 | 4 | |
| 760-007-00 | 1 | BTN 10MM SMALL BLK | 3 | |
| 760-073-00 | B | END CAP LEFT - HUI | 1 | |
| 760-074-00 | B | END CAP RIGHT - HUI | 1 | |
| 760-075-00 | B | PAINTED ARMREST - HUI | 1 | |
| 760-076-00 | A01 | JOG RING - HUI | 1 | |
| 760-081-00 | A | KNOB 9MM DARK BLK | 4 | |
| 760-091-00 | A | KNOB MASTER VOLUME | 1 | |
| 760-092-00 | A | KNOB FADER METALIZED | 8 | |
| 760-100-00 | A | BUTTON 10.5 X 8.8MM BLK | 1 | |
| 780-036-00 | B | LENS MTR BRIDGE HUI | 1 | |
| 780-037-00 | A | LENS 5X7 DOT MATRIX DISPL | 1 | |
| 780-038-01 | A | LENS SEGMENTED DISPL HUI | 1 | |
| 780-039-00 | A | LENS DISPLAY - HUI | 1 | |
| 780-113-00 | B | FILTER VFD MTR BRIDGE HUI | 1 | |
| 790-002-00 | A | BAG POLY 12 X 18 2MIL | 1 | |
| 790-011-00 | A | BAG POLY 20 X 7 X 30 4MIL | 1 | |
| 800-050-00 | A | BOX ULTRAMIX PRO (M-434) | 1 | |
| 800-090-00 | A | BOX - HUI | 1 | |
| 800-091-00 | A | SLEEVE - HUI | 1 | |
| 810-066-00 | A | INSERT TRAY -HUI | 1 | |
| 810-078-00 | A | FOAM LEFT - HUI | 1 | |
| 810-079-00 | A | FOAM RIGHT - HUI | 1 | |
| 820-069-03 | B00 | REF GUIDE HUI | 1 | |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



055-102-02 REV D35 PCB ASSY CONTROL SURFACE - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|----------------------------------------------------------------------------------------------|-----|----------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 040-156-00 | A | RIB 28GA TRANS 40C 2.75IN | 2 | J3, J4 |
| 130-045-00 | A | POT RTY 12MM 10KB ENDLESS | 13 | R61, R62, R63, R64, R86, R109, R114, R115, R122, R123, R124, R125, R126 |
| 130-051-02 | A | POT 10KB 9MM MONO 25MM | 5 | R112, R166, R167, R168, R169 |
|  304-006-00 | B | LED RED T1-3/4 | 1 | D193 |
|  304-026-00 | A01 | LED ARRAY V-POT | 12 | U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29 |
| 304-045-00 | A | DIS 4X.145IN GRN 5X7 DOT | 9 | D1, D2, D3, D4, D5, D6, D7, D8, D9 |
|  304-057-00 | A | LED TRICLR SUP/HI T1 TRAN | 9 | D42, D43, D44, D45, D46, D47, D48, D181, D202 |
|  304-062-00 | A | LED T1 HI-EFF GRN FLGLESS | 1 | D214 |
|  304-067-00 | A | LED RED T1 TRANS FLGLS | 1 | D215 |
|  304-069-00 | A | LED YEL T1 TRANS FLGLS | 4 | D210, D211, D212, D213 |
| 304-074-00 | A | DISPL DUAL 7 SEG W/SPACER | 8 | D18, D34, D35, D36, D37, D38, D39, D40 |
| 321-008-00 | B | REG LM317T ADJ | 1 | U39 |
| 400-195-00 | A | HDR 5P STR .100X1 LOCK | 1 | J5 |
| 400-212-00 | A | SKT HDR 6P .1X1 STR MACH | 18 | Z228, Z229, Z230, Z231, Z232, Z233, Z234, Z235, Z236, Z237, Z238, Z239, Z240, Z241, Z242, Z243, Z244, Z245 |
| 400-224-00 | A | HDR 8P .156X1 LOCK KEYED | 1 | J2 |
| 400-238-00 | A | HDR 3P .100X1 LOCKING | 1 | J8 |
| 480-001-00 | A | MICROPHONE | 1 | M1 |
| 500-028-00 | A | SW MOM SPST TACT 12MM PCM | 30 | SW90, SW91, SW92, SW93, SW94, SW98, SW99, SW100, SW101, SW102, SW123, SW124, SW125, SW126, SW127, SW128, SW129, SW130, SW131, SW132, SW133, SW134, SW135, SW136, SW137, SW138, SW139, SW140, SW183, SW185 |
| 500-035-00 | A | SW MOM SPST TACT 12MM PCM | 1 | SW97 |
| 550-293-00 | A1 | BRKT KEY PAD - HUI | 1 | Z100 |
| 700-011-01 | A | MCH 4-40X3/16 BTNSK BLKXOX | 4 | Z101, Z125, Z126, Z127 |
| 706-033-01 | D | STDF SWAGE NO.4 X .542L F | 35 | Z156, Z157, Z158, Z159, Z160, Z161, Z162, Z163, Z164, Z165, Z166, Z167, Z168, Z169, Z170, Z171, Z172, Z173, Z174, Z175, Z176, Z177, Z178, Z179, Z180, Z181, Z182, Z183, Z184, Z185, Z186, Z187, Z188 |
| 706-033-05 | D | STDF SWAGE NO.4 X .312L F | 4 | Z96, Z97, Z98, Z99 |
| 706-052-00 | A | SPCR PVC .125 TRI-LED | 6 | Z246, Z247, Z248, Z249, Z250, Z251 |
| 706-053-00 | A | SPCR PVC .145 TRI-LEDS | 8 | Z189, Z190, Z191, Z192, Z210, Z211, Z212, Z213 |
| 706-054-00 | A | SPCR PVC .350 TRI-LEDS | 1 | Z214 |
| 760-064-00 | A01 | DISPLAY LENS V-POT | 12 | |
| 760-068-01 | C | BTN TRANSPORT - REWIND | 1 | Z253 |
| 760-068-02 | C | BTN TRANSPORT - FAST FRWD | 1 | Z152 |
| 760-068-03 | C | BTN TRANSPORT - STOP | 1 | Z153 |

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Control surface continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 760-068-04 | C | BTN TRANSPORT - PLAY | 1 | Z154 |
| 760-068-05 | C | BTN TRANSPORT RED-RECORD | 1 | Z155 |
| 760-068-06 | 1 | BTN TRANSPORT - TALKBACK | 1 | Z252 |
| 760-072-01 | A | BTN KEYPAD RECT - ENTER | 1 | Z107 |
| 760-072-02 | A | BTN KEYPAD RECT - 0 | 1 | Z108 |
| 760-086-01 | D00 | BTN RND GRAY 120 - MODE | 1 | Z102 |
| 760-086-02 | D00 | BTN RND GRAY 120 - ARROW | 4 | Z103, Z104, Z105, Z106 |
| 760-095-01 | A | BTN KEYPAD SQ - 1 | 1 | Z109 |
| 760-095-02 | A | BTN KEYPAD SQ - 2 | 1 | Z110 |
| 760-095-03 | A | BTN KEYPAD SQ - 3 | 1 | Z112 |
| 760-095-04 | A | BTN KEYPAD SQ - 4 | 1 | Z111 |
| 760-095-05 | A | BTN KEYPAD SQ - 5 | 1 | Z113 |
| 760-095-06 | A | BTN KEYPAD SQ - 6/9 | 2 | Z114, Z117 |
| 760-095-07 | A | BTN KEYPAD SQ - 7 | 1 | Z115 |
| 760-095-08 | A | BTN KEYPAD SQ - 8 | 1 | Z116 |
| 760-095-10 | A | BTN KEYPAD SQ - DECIMAL | 1 | Z118 |
| 760-095-11 | A | BTN KEYPAD SQ - PLUS | 1 | Z119 |
| 760-095-12 | A | BTN KEYPAD SQ - MINUS | 1 | Z120 |
| 760-095-13 | A | BTN KEYPAD SQ - ASTERISK | 1 | Z121 |
| 760-095-14 | A | BTN KEYPAD SQ - SLASH | 1 | Z122 |
| 760-095-15 | A | BTN KEYPAD SQ - EQUALS | 1 | Z123 |
| 760-095-16 | A | BTN KEYPAD SQ - CLR | 1 | Z124 |
| 760-117-00 | E00 | BTN HINGE ANGLE SM | 72 | Z24, Z25, Z26, Z27, Z28, Z29, Z30, Z31, Z32, Z33, Z34, Z35, Z36, Z37, Z38, Z39, Z40, Z41, Z42, Z43, Z44, Z45, Z46, Z47, Z48, Z49, Z50, Z51, Z52, Z53, Z54, Z55, Z56, Z57, Z58, Z59, Z60, Z61, Z62, Z63, Z64, Z65, Z66, Z67, Z68, Z69, Z70, Z71, Z72, Z73, Z74, Z75, Z76, Z77, Z78, Z79, Z80, Z81, Z82, Z83, Z84, Z85, Z86, Z87, Z88, Z89, Z90, Z91, Z92, Z93, Z94, Z95 |
| 760-117-01 | D | BTN HNGE ANGLE SM REC/RDY | 8 | B96, B97, B98, B99, B100, B101, B102, B103 |
| 760-117-02 | D | BTN HINGE ANGLE SM INSERT | 8 | B104, B105, B106, B107, B108, B109, B110, B111 |
| 760-117-03 | D | BTN HINGE ANGLE SM V-SEL | 8 | B112, B113, B114, B115, B116, B117, B118, B119 |
| 760-118-00 | D | BTN HINGE ANGLE LG | 23 | Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18, Z19, Z20, Z21, Z22, Z23 |
| 760-118-01 | D | BTN HINGE ANGLE LG AUTO | 8 | B120, B121, B122, B123, B124, B125, B126, B127 |
| 760-118-02 | D | BTN HINGE ANGLE LG SOLO | 8 | B128, B129, B130, B131, B132, B133, B134, B135 |
| 760-118-03 | D | BTN HINGE ANGLE LG MUTE | 8 | B136, B137, B138, B139, B140, B142, B143, B244 |
| 760-118-04 | D | BTN HINGE ANGLE LG SELECT | 8 | B144, B145, B146, B147, B148, B149, B150, B151 |

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Control surface continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|-----------------|
| 706-009-00 | C | SPCR PLASTIC .385 LED | 1 | |
| 050-102-02 | D33 | PCB AUTO CNTRL SURF - HUI | 1 | SEE PAGE 7 |



050-102-02 REV D33 PCB AUTO CONTROL SURFACE - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 140-033-00 | A | RES TF SM .1W 5% 22 OHM | 16 | R6, R8, R10, R12, R14, R16, R18, R20, R60, R117, R119, R121, R129, R131, R133, R135 |
| 140-037-00 | A | RES TF SM .1W 5% 33 OHM | 12 | R22, R24, R58, R137, R139, R141, R143, R145, R147, R149, R151, R163 |
| 140-042-00 | A | RES TF SM .1W 5% 51 OHM | 3 | R26, R97, R98 |
| 140-044-00 | A | RES TF SM .1W 5% 62 OHM | 44 | R25, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77 |
| 140-065-00 | A | RES TF SM .1W 5% 470 OHM | 28 | R3, R7, R9, R11, R13, R15, R17, R19, R21, R23, R57, R59, R108, R116, R118, R120, R128, R130, R132, R134, R136, R138, R140, R142, R144, R146, R148, R150 |
| 140-073-00 | A | RES TF SM .1W 5% 1K0 OHM | 45 | R1, R101, R102, R103, R104, R105, R106, R107, R193, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230 |
| 140-074-00 | A | RES TF SM .1W 5% 1K1 OHM | 1 | R153 |
| 140-080-00 | A | RES TF SM .1W 5% 2K0 OHM | 2 | R156, R157 |
| 140-083-00 | A | RES TF SM .1W 5% 2K7 OHM | 2 | R113, R127 |
| 140-084-00 | A | RES TF SM .1W 5% 3K0 OHM | 2 | R2, R5 |
| 140-087-00 | A | RES TF SM .1W 5% 3K9 OHM | 1 | R4 |
| 140-089-00 | A | RES TF SM .1W 5% 4K7 OHM | 18 | R78, R79, R80, R81, R82, R83, R84, R85, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 2 | R155, R158 |
| 140-104-00 | A | RES TF SM .1W 5% 20K OHM | 4 | R111, R159, R160, R161 |
| 140-114-00 | A | RES TF SM .1W 5% 47K OHM | 26 | R164, R165, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R194 |
| 140-117-00 | A | RES TF SM .1W 5% 62K OHM | 2 | R152, R154 |
| 145-201-00 | B | RES MF SM .1W 1% 121 OHM | 2 | R110, R162 |
| 145-239-00 | B | RES MF SM .1W 1% 301 OHM | 1 | R100 |
| 145-285-00 | B | RES MF SM .1W 1% 909 OHM | 1 | R99 |
| 212-001-00 | B1 | CER .01UF 10% 50V X7R SM | 4 | C16, C66, C67, C68 |
| 212-003-00 | B1 | CER 100PF 5% 50V NPO SM | 3 | C31, C53, C69 |
| 212-007-00 | A1 | CER .047UF 20% 50V Z5U SM | 1 | C61 |



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Auto control surface continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------------------------------------------------------------------------------------------|-----|---------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 76 | C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C17, C18, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C32, C33, C38, C40, C42, C44, C46, C47, C48, C49, C50, C51, C52, C62, C63, C71, C72, C73, C74, C75, C76, C77, C78, C83, C84, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111 |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 9 | C19, C30, C39, C41, C43, C45, C64, C65, C70 |
| 300-003-00 | A | DIO SW DL4148 100V SM | 184 | D10, D11, D12, D13, D178, D205, D263, D264, D265, D266, D267, D268, D269, D270, D271, D272, D273, D274, D275, D276, D277, D278, D279, D280, D281, D282, D283, D284, D285, D286, D287, D288, D289, D290, D291, D292, D293, D294, D295, D296, D297, D298, D299, D300, D301, D302, D303, D304, D305, D306, D307, D308, D309, D310, D311, D312, D313, D314, D315, D316, D317, D318, D319, D320, D321, D322, D323, D324, D325, D326, D327, D328, D329, D330, D331, D332, D333, D334, D335, D336, D337, D338, D339, D340, D341, D342, D343, D344, D345, D346, D347, D348, D349, D350, D351, D352, D353, D354, D355, D356, D357, D358, D359, D360, D361, D362, D363, D364, D365, D366, D367, D368, D369, D370, D371, D372, D373, D374, D375, D376, D377, D378, D379, D380, D381, D382, D383, D384, D385, D386, D387, D388, D389, D390, D391, D392, D393, D394, D395, D396, D397, D398, D399, D400, D401, D402, D403, D404, D405, D406, D407, D408, D409, D410, D411, D412, D413, D414, D415, D416, D417, D418, D419, D420, D421, D422, D423, D424, D425, D426, D427, D428, D429, D430, D431, D432, D433, D434, D435, D437, D438, D439, D440, D441 |
|  304-027-02 | C00 | LED RED W/.425 SPACER TR | 3 | D217, D223, D224 |
|  304-040-02 | A | LED RED T-1 TRANS W/TIE | 24 | D50, D51, D52, D53, D54, D55, D56, D57, D82, D83, D84, D85, D86, D87, D88, D89, D97, D185, D191, D197, D198, D200, D203, D204 |

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Auto control surface continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|----------------------------------------------------------------------------------------------|-----|---------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  304-042-02 | A | LED YEL T-1 TRANS W/TIE | 86 | D19, D20, D21, D30, D31, D32, D33, D41, D66, D67, D68, D69, D70, D71, D72, D73, D90, D91, D92, D94, D95, D96, D98, D99, D100, D101, D102, D103, D106, D107, D108, D109, D171, D172, D173, D174, D175, D182, D183, D186, D187, D188, D189, D190, D192, D194, D196, D209, D216, D218, D219, D220, D221, D222, D225, D226, D227, D228, D229, D230, D231, D232, D233, D234, D235, D236, D237, D238, D239, D240, D241, D242, D243, D244, D245, D246, D247, D248, D249, D250, D251, D252, D253, D254, D255, D256 |
|  304-055-02 | A | LED HI/GRN T1 TRANS W/TIE | 33 | D58, D59, D60, D61, D62, D63, D64, D65, D74, D75, D76, D77, D78, D79, D80, D81, D93, D176, D177, D179, D180, D184, D195, D199, D206, D207, D208, D257, D258, D259, D260, D261, D262 |
| 311-001-00 | B | XSTR NPN IMBT4401 SMT | 28 | Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q57, Q58, Q59, Q60, Q61, Q67, Q68, Q69, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84 |
| 311-002-00 | A | XSTR PNP MMST4403 SMT | 72 | Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q62, Q63, Q64, Q65, Q66, Q70, Q71, Q72, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100 |
| 320-020-00 | A | IC, DUAL OP AMP NJM4565G | 18 | U7, U8, U9, U10, U11, U40, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52 |
| 325-003-03 | A | CMOS 4051 8CH ANAL MUX SM | 4 | U3, U4, U5, U6 |
| 325-006-03 | B | TTL 74HC138 DCDR/DEMUX SM | 5 | U1, U12, U13, U30, U31 |
| 325-019-03 | B | TTL 74HC00 QUAD NAND SM | 1 | U35 |
| 325-027-03 | A | CMOS 74HC74A DUAL D FLPFL | 1 | U34 |
| 325-031-03 | A | CMOS 74HC191 UP/DWN CNTR | 2 | U32, U33 |
| 450-102-00 | D | PCB CTL SURFACE - HUI | 1 | Z193 |

continued...



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.






Auto control surface continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 500-033-02 | A | SW TACT 6MMSQR 9.5H 260GF | 151 | SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW24, SW25, SW26, SW27, SW28, SW29, SW30, SW31, SW32, SW33, SW34, SW35, SW36, SW37, SW38, SW39, SW40, SW41, SW42, SW43, SW44, SW45, SW46, SW47, SW48, SW49, SW50, SW51, SW52, SW53, SW54, SW55, SW56, SW57, SW58, SW59, SW60, SW61, SW62, SW63, SW64, SW65, SW66, SW67, SW68, SW69, SW70, SW71, SW72, SW73, SW74, SW75, SW76, SW77, SW78, SW79, SW80, SW81, SW82, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW95, SW96, SW103, SW104, SW105, SW106, SW107, SW108, SW109, SW110, SW111, SW112, SW113, SW114, SW115, SW116, SW117, SW118, SW119, SW120, SW121, SW122, SW141, SW142, SW143, SW144, SW145, SW146, SW147, SW148, SW149, SW150, SW151, SW152, SW153, SW154, SW155, SW156, SW157, SW158, SW159, SW160, SW161, SW162, SW163, SW164, SW165, SW166, SW167, SW168, SW169, SW170, SW171, SW172, SW173, SW174, SW175, SW177, SW178, SW179, SW180, SW181 |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 16 | L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16 |



055-105-00 REV B13 PCB ASSY DCA - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|----------------------------------------------------------------------------------------------|-----|---------------------------|-----|-----------------|
| 040-175-00 | A00 | RIB 28G TRNS 40C PLZD 2IN | 1 | J5 |
| 040-186-01 | G01 | RIB 28GA 10C TRANS 5.00 | 1 | J4 |
|  321-008-00 | B | REG LM317T ADJ | 1 | U56 |
|  321-009-00 | A | REG LM337T ADJ | 1 | U55 |
| 400-061-00 | A | HDR 2P .100X1 STR LOCK | 1 | J3 |
| 400-221-00 | A | HDR 7P .156 LOCK KEY PIN6 | 1 | J1 |
|  410-005-00 | A | INSL SILPAD TO-220 | 2 | |
| 050-105-00 | B13 | PCB AUTO DCA - HUI | 1 | SEE NEXT PAGE |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



050-105-00 REV B13 PCB AUTO DCA - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-027-00 | A | RES CF .125W 5% 120 OHM | 4 | R230, R231, R232, R233 |
| 140-025-00 | A | RES TF SM .1W 5% 10 OHM | 3 | R207-R208, R215 |
| 140-051-00 | A | RES TF SM .1W 5% 120 OHM | 3 | R1-R2, R53 |
| 140-070-00 | A | RES TF SM .1W 5% 750 OHM | 0 | |
| 140-073-00 | A | RES TF SM .1W 5% 1K0 OHM | 1 | R25 |
| 140-085-00 | A | RES TF SM .1W 5% 3K3 OHM | 6 | R130-R131, R190-R191, R285, R286 |
| 140-089-00 | A | RES TF SM .1W 5% 4K7 OHM | 2 | R8, R229 |
| 140-090-00 | A | RES TF SM .1W 5% 5K1 OHM | 17 | R16, R22, R27, R30, R32, R35, R37, R40, R42, R45, R50, R58, R60, R216-R217, R249, R250 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 66 | R7, R9-R15, R17-R20, R23-R24, R26, R28, R31, R33, R36, R38, R41, R43, R46-R47, R49, R51, R59, R81-R82, R120-R129, R180-R189, R234-R239, R253, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284 |
| 140-101-00 | A | RES TF SM .1W 5% 15K OHM | 2 | R226, R227 |
| 140-104-00 | A | RES TF SM .1W 5% 20K OHM | 17 | R3, R6, R80, R114-R115, R140-R141, R240-R245, R251-R252, R269, R270 |
| 140-114-00 | A | RES TF SM .1W 5% 47K OHM | 3 | R4, R200, R287 |
| 140-123-00 | A | RES TF SM .1W 5% 100K OHM | 12 | R136-R139, R196-R199, R222, R223, R224, R225 |
| 140-140-00 | A | RES TF SM .1W 5% 510K OHM | 24 | R5, R21, R29, R34, R39, R44, R52, R147-R148, R201-R206, R246-R248, R288, R289, R290, R291, R292, R293 |
| 145-201-00 | B | RES MF SM .1W 1% 121 OHM | 16 | R132-R135, R192-R195, R211-R214, R218, R219, R220, R221 |
| 145-343-00 | B | RES MF SM .1W 1% 3K32 OHM | 6 | R116-R117, R142-R143, R271, R272 |
| 212-003-00 | B1 | CER 100PF 5% 50V NPO SM | 17 | C21, C26, C28, C33, C36, C38, C43, C45, C48, C50, C55, C57, C62, C65, C67, C214, C215 |
| 212-009-00 | A | CER 47PF 5% 50V NPO SM | 16 | C60-C61, C92, C109-C110, C127, C136-C141, C153, C216, C243, C244 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 103 | C1-C20, C24-C25, C31-C32, C41-C42, C53-C54, C69-C75, C77-C83, C115-C120, C158-C165, C168, C170-C171, C176-C180, C182-C184, C186-C187, C190-C193, C198-C199, C202, C204-C208, C211-C212, C217-C219, C221, C245-C252, C255, C257, C258, C259, C260, C261, C262, C263 |
| 212-019-00 | B1 | CER 150PF 5% 50V SM | 6 | C105-C106, C123-C124, C239, C240 |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 68 | C22-C23, C27, C30, C34-C35, C37, C39-C40, C44, C46-C47, C49, C51-C52, C56, C59, C63-C64, C66, C76, C84-C91, C93-C104, C111-C114, C121-C122, C128-C135, C154-C157, C172-C175, C181, C209, C220, C237, C238 |
| 220-011-02 | A1 | LYT 100UF 20% 25V RAD | 2 | C210, C213 |
| 220-027-02 | B1 | LYT 10UF 20% 50V RAD TR | 9 | C166-C167, C169, C200-C201, C203, C253-C254, C256 |

continued...



Auto DCA continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|-----------------------------------------------|-----|------------------------------------------------------------------|
| 300-003-00 | A | DIO SW DL4148 100V SM | 2 | D1, D2 |
| 301-004-00 | A | DIO PWR DL4002 SM REPLACE WITH 0004136 S1B | 2 | D11, D12 |
| 320-006-00 | A | OPAMP 2068E | 5 | U2, U7, U29, U33, U46 |
| 320-020-00 | A | IC, DUAL OP AMP NJM4565G | 25 | U1, U6, U8, U10-U14, U17, U30-U31, U38-U44, U47-U51, U59, U60 |
| 325-007-03 | B | TTL 74HC14A INV SH-TR SM | 1 | U66 |
| 325-012-03 | B | TTL 74HC595 SHIFT REG SM | 3 | U52, U53, U54 |
| 325-018-03 | C | DG413 QUAD ANALOG SW SM | 13 | U3-U5, U9, U23-U28, U34, U35, U36 |
| 329-019-03 | A | CS3310 DIG ATTENUATOR SM | 3 | U22, U32, U64 |
| 450-105-00 | B | PCB DCA - HUI | 1 | |
| 145-277-00 | B | RES MF SM .1W 1% 750 OHM | 2 | R209, R210 |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



055-106-00 REV B33 PCB ASSY BRAIN - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|-----------------|
| 315-003-00 | B | CRYSTAL 4.9152 MHZ | 1 | Y1 |
| 315-007-00 | A | CRYSTAL 24MHZ | 1 | Y2 |
| 329-001-00 | A | ADC0804 A/D CONV 8BIT | 2 | U20, U21 |
| 329-007-00 | A | MC6850 ACIA | 2 | U22, U23 |
| 329-020-00 | A | A/D CONV ADC1001 | 1 | U19 |
| 400-185-00 | A | HDR 26P .100X2 STR SHRD | 1 | J6 |
| 400-186-00 | A | HDR 40P .100X2 STR SHRD | 2 | J3, J4 |
| 400-190-00 | B | HDR 16P .100X2 STR SHRD | 1 | J9 |
| 400-221-00 | A | HDR 7P .156 LOCK KEY PIN6 | 1 | J7 |
| 400-341-10 | G00 | HDR 10P .10X2 STR LCK | 1 | J2 |
| 400-341-14 | G00 | HDR 14P .10X2 STR LCK | 1 | J5 |
| 400-341-34 | G00 | HDR 34P .10X2 STR LCK | 1 | J10 |
| 401-001-28 | C | IC SOCKET 28PIN DIP | 1 | U5 |
| 050-106-00 | B32 | PCB AUTO BRAIN - HUI | 1 | SEE NEXT PAGE |



050-106-00 REV B32 PCB AUTO BRAIN - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|--------------------------------------------------------------------------------------------------|
| 140-037-00 | A | RES TF SM .1W 5% 33 OHM | 1 | R15 |
| 140-073-00 | A | RES TF SM .1W 5% 1K0 OHM | 6 | R3, R16, R17, R18, R19, R20 |
| 140-074-00 | A | RES TF SM .1W 5% 1K1 OHM | 5 | R8, R9, R10, R11, R12 |
| 140-077-00 | A | RES TF SM .1W 5% 1K5 OHM | 2 | R1, R2 |
| 140-095-00 | A | RES TF SM .1W 5% 8K2 OHM | 1 | R4 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 4 | R5-R7, R14 |
| 145-162-00 | B | RES MF SM .1W 1% 47R5 OHM | 1 | R13 |
| 212-003-00 | B1 | CER 100PF 5% 50V NPO SM | 3 | C29, C32, C34 |
| 212-009-00 | A | CER 47PF 5% 50V NPO SM | 1 | C158 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 41 | C1, C3, C5-C6, C9, C11-C12, C15, C17-C19, C23-C27, C30, C35-C50, C52, C76, C154-C157, C159, C160 |
| 212-015-00 | B1 | CER 33PF 5% 50V NPO SM | 2 | C20, C21 |
| 212-025-00 | D1 | CAP CER .1UF 50V 10% X7R | 1 | C2 |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 6 | C7-C8, C10, C13-C14, C51 |
| 220-011-02 | A1 | LYT 100UF 20% 25V RAD | 1 | C4 |
| 220-027-02 | B1 | LYT 10UF 20% 50V RAD TR | 4 | C22, C28, C31, C33 |
| 325-004-03 | B | TTL 74HC02 QUAD NOR SM | 3 | U13-U14, U16 |
| 325-006-03 | B | TTL 74HC138 DCDR/DEMUX SM | 2 | U3, U4 |
| 325-009-03 | A | TTL 74HCT573 OCT D LATCH | 9 | U9, U29, U30, U31, U32, U33, U34, U35, U36 |
| 325-016-03 | B | TTL 74HC393 DUAL BIN CNT | 1 | U2 |
| 325-020-03 | B | TTL 74HC04 HEX INV SM | 1 | U1 |
| 325-029-03 | A | CMOS 74HC244 OCTAL BUFFER | 5 | U24, U25, U26, U27, U28 |
| 325-034-03 | A | 74HC32 QUAD 2 INPUT OR | 2 | U17, U18 |
| 325-053-03 | B | TTL 74AC14 INV SH-TR SM | 1 | U11 |
| 325-054-03 | A | 74AC573 OCT D LATCH SM | 1 | U8 |
| 329-005-03 | B | 62256 SRAM 32 X 8 BIT SM | 1 | U10 |
| 329-013-03 | A | 24C65 64K BIT SER EEPROM | 1 | U6 |
| 329-120-03 | B | 80C320 REV. B MICROPRO SM | 1 | U7 |
| 450-106-00 | B01 | PCB BRAIN - HUI | 1 | |
| 500-029-02 | A | SW MOM SPST TACT 6MM TR | 1 | SW1 |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 10 | FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10 |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



055-156-00 REV A75 PCB ASSY ANALOG I/O - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|--------------------------------|
| 130-033-02 | A | POT RTY 10KZ 12MM MNO TN | 3 | |
| 220-030-00 | B1 | LYT 1000UF 20% 6.3V RAD | 3 | C10, C35, C60 |
| 400-186-00 | A | HDR 40P .100X2 STR SHRD | 1 | J21 |
| 400-464-00 | AO2 | JACK 1/4 V PCMNT 1MM WASH | 18 | J3-J4, J6-J7, J9-J20, J22, J23 |
| 400-223-00 | A | XLR PCMNT NEUTRIK-AP SER | 3 | J2, J5, J8 |
| 500-024-00 | B | SW SLIDE DPDT MINI | 1 | SW5 |
| 0000162 | A | SWITCH 2PDT PUSH V SNAPIN | 3 | |
| 706-033-01 | D | STDF SWAGE NO.4 X .542L F | 4 | Z1, Z2, Z3, Z4 |
| 706-033-16 | A | STDF SWAGE NO.4 X .978L F | 2 | |
| 760-109-00 | A | BTN 2 COLOR 9X5MM W/EXT | 3 | |
| 050-156-00 | A75 | PCB AUTO ANALOG I/O - HUI | 1 | SEE NEXT PAGE |



050-156-00 REV A75 PCB AUTO ANALOG I/O - HUI


| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110-001-00 | A | RES CF .25W 5% 10 OHM | 6 | R5-R6, R40-R41, R75, R76 |
| 110-027-00 | A | RES CF .25W 5% 120 OHM | 3 | R7, R39, R42 |
| 115-373-00 | A | RES MF .25W 1% 6K81 OHM | 6 | R2-R3, R37-R38, R72, R73 |
| 140-065-00 | A | RES TF SM .1W 5% 470 OHM | 6 | R11-R12, R46-R47, R81, R82 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 4 | R32-R33, R67, R68 |
| 140-104-00 | A | RES TF SM .1W 5% 20K OHM | 5 | R8, R36, R43, R71, R78 |
| 140-139-00 | A | RES TF SM .1W 5% 470K OHM | 3 | R1, R4, R74 |
| 145-051-00 | B | RES MF SM .1W 1% 3R32 OHM | 3 | R10, R45, R80 |
| 145-201-00 | B | RES MF SM .1W 1% 121 OHM | 6 | R29-R30, R34, R64-R65, R69 |
| 145-314-00 | B | RES MF SM .1W 1% 1K82 OHM | 6 | R27-R28, R62-R63, R97, R98 |
| 145-331-00 | B | RES MF SM .1W 1% 2K49 OHM | 21 | R13-R14, R21-R25, R48-R49, R56-R60, R83-R84, R91, R92, R93, R94, R95 |
| 145-361-00 | B | RES MF SM .1W 1% 5K11 OHM | 12 | R15, R18-R20, R50, R53-R55, R85, R88, R89, R90 |
| 145-389-00 | B | RES MF SM .1W 1% 10K0 OHM | 10 | R16-R17, R31, R35, R51-R52, R66, R70, R86, R87 |
| 145-418-00 | B | RES MF SM .1W 1% 20K0 OHM | 3 | R26, R61, R96 |
| 212-003-00 | B1 | CER 100PF 5% 50V NPO SM | 6 | C15-C16, C40-C41, C65, C66 |
| 212-009-00 | A | CER 47PF 5% 50V NPO SM | 8 | C11-C12, C21, C36-C37, C46, C61, C62 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 20 | C1, C17-C18, C22-C25, C42-C43, C47-C50, C67, C68, C69, C70, C71, C72, C73 |
| 212-016-00 | A1 | CER 1000PF 5% 50V NPO SM | 3 | C5, C30, C55 |
| 212-018-00 | B1 | CER 10PF 5% 50V NPO SM | 6 | C13-C14, C38-C39, C63, C64 |
| 212-042-00 | A1 | CER 470PF 5% 50V NPO SM | 9 | C6-C7, C9, C31-C32, C34, C56-C57, C59 |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 11 | C8, C19-C20, C26, C33, C44-C45, C51, C54, C58, C75 |
| 220-003-02 | B | LYT 47UF 20% 50V RAD TR | 9 | C2-C4, C27-C29, C52-C53, C74 |
| 300-003-00 | A | DIO SW DL4148 100V SM | 3 | D6, D11, D16 |
| 302-015-02 | A | DIO ZEN SA12CA BI-DIR TR | 6 | D1, D17, D18, D19, D20, D21 |
| 310-003-02 | B2 | XSTR PNP 2SA1316 AMMO PK | 6 | Q2-Q3, Q7-Q8, Q12, Q13 |
| 311-002-00 | A | XSTR PNP MMST4403 SMT | 9 | Q4-Q6, Q9-Q11, Q14, Q15, Q16 |
| 320-006-00 | A | OPAMP 2068E | 5 | U2-U3, U5, U7, U8 |
| 320-020-00 | A | IC, DUAL OP AMP NJM4565G | 2 | U4, U6 |
| 450-156-00 | A | PCB ANALOG I/O - HUI | 1 | |
| 601-002-00 | A | INDUCTOR 4.7UH AX | 3 | FB2, FB5, FB8 |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 44 | FB1, FB3-FB4, FB6-FB7, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16, FB17, FB18, FB19, FB20, FB21, FB22, FB23, FB24, FB25, FB26, FB27, FB28, FB29, FB30, FB31, FB32, FB33, FB34, FB35, FB36, FB37, FB38, FB39, FB40, FB41, FB42, FB43, FB44, FB45, FB46, FB47 |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



055-158-00 REV A62 PCB ASSY SERVO - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|----------------------------------------------------------------------------------------------|-----|---------------------------|-----|------------------------------------------------------------------------------------------------|
| 130-053-00 | A | POT TRIM 200OHM 6MM HORIZ | 8 | R113, R149, R213, R249, R313, R349, R413, R449 |
| 220-005-00 | B1 | LYT 470UF 20% 25V RAD | 2 | C6, C44 |
| 310-012-00 | B1 | XSTR PNP MJE171 | 16 | Q103, Q105, Q108, Q110, Q203, Q205, Q208, Q210, Q303, Q305, Q308, Q310, Q403, Q405, Q408, Q410 |
| 310-013-00 | B1 | XSTR NPN MJE181 | 16 | Q102, Q104, Q107, Q109, Q202, Q204, Q207, Q209, Q302, Q304, Q307, Q309, Q402, Q404, Q407, Q409 |
|  321-008-00 | B | REG LM317T ADJ | 1 | U3 |
| 400-061-00 | A | HDR 2P .100X1 STR LOCK | 8 | J101, J102, J201, J202, J301, J302, J401, J402 |
| 400-190-00 | B | HDR 16P .100X2 STR SHRD | 1 | J4 |
| 400-219-00 | A | HDR 5P .156 LOCK KEY PIN4 | 1 | J2 |
| 400-221-00 | A | HDR 7P .156 LOCK KEY PIN6 | 1 | J1 |
| 400-341-10 | G00 | HDR 10P .10X2 STR LCK | 1 | J3 |
| 400-341-34 | G00 | HDR 34P .10X2 STR LCK | 1 | J5 |
| 050-158-00 | A62 | PCB AUTO SERVO - HUI | 1 | SEE NEXT PAGE |



050-158-00 REV A62 PCB AUTO SERVO - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100-056-00 | A | RES CF .125W 5% 2K OHM | 8 | R127, R163, R227, R263, R327, R363, R427, R463 |
| 100-059-00 | A | RES CF .125W 5% 2K7 OHM | 8 | R121, R157, R221, R257, R321, R357, R421, R457 |
| 111-001-00 | B | RES CF .25W 5% 1.0 OHM | 32 | R137, R139, R144, R146, R173, R175, R178, R180, R237, R239, R244, R246, R273, R275, R278, R280, R337, R339, R344, R346, R373, R375, R378, R380, R437, R439, R444, R446, R473, R475, R478, R480 |
| 145-204-00 | B | RES MF SM .1W 1% 130 OHM | 1 | R7 |
| 140-070-00 | A | RES TF SM .1W 5% 750 OHM | 32 | R136, R140, R143, R147, R172, R176, R177, R181, R236, R240, R243, R247, R272, R276, R277, R281, R336, R340, R343, R347, R372, R376, R377, R381, R436, R440, R443, R447, R472, R476, R477, R481 |
| 145-249-00 | B | RES MF SM .1W 1% 383 OHM | 1 | R8 |
| 140-089-00 | A | RES TF SM .1W 5% 4K7 OHM | 24 | R128, R133, R134, R164, R169, R170, R228, R233, R234, R264, R269, R270, R328, R333, R334, R364, R369, R370, R428, R433, R434, R464, R469, R470 |
| 140-090-00 | A | RES TF SM .1W 5% 5K1 OHM | 8 | R126, R162, R226, R262, R326, R362, R426, R462 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 50 | R3, R4, R118, R119, R135, R138, R145, R148, R154, R155, R171, R174, R179, R182, R218, R219, R235, R238, R245, R248, R254, R255, R271, R274, R279, R282, R318, R319, R335, R338, R345, R348, R354, R355, R371, R374, R379, R382, R418, R419, R435, R438, R445, R448, R454, R455, R471, R474, R479, R482 |
| 140-104-00 | A | RES TF SM .1W 5% 20K OHM | 17 | R2, R130, R132, R166, R168, R230, R232, R266, R268, R330, R332, R366, R368, R430, R432, R466, R468 |
| 140-123-00 | A | RES TF SM .1W 5% 100K OHM | 25 | R5, R120, R123, R131, R156, R159, R167, R220, R223, R231, R256, R259, R267, R320, R323, R331, R356, R359, R367, R420, R423, R431, R456, R459, R467 |
| 140-139-00 | A | RES TF SM .1W 5% 470K OHM | 8 | R129, R165, R229, R265, R329, R365, R429, R465 |
| 140-147-00 | A | RES TF SM .1W 5% 1M OHM | 16 | R6, R9, R10, R11, R12, R13, R14, R15, R124, R160, R224, R260, R324, R360, R424, R460 |
| 145-399-00 | B | RES MF SM .1W 1% 12K7 OHM | 1 | R1 |
| 148-001-00 | A | RES TF SM .1W 0.1% 10K0 | 16 | R16, R122, R142, R158, R212, R222, R242, R258, R312, R322, R342, R358, R412, R422, R442, R458 |

continued...



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



Auto servo continued...

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|-----------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 212-001-00 | B1 | CER .01UF 10% 50V X7R SM | 48 | C111, C112, C113, C114, C115, C116, C120, C121, C124, C125, C126, C127, C211, C212, C213, C214, C215, C216, C220, C221, C224, C225, C226, C227, C311, C312, C313, C314, C315, C316, C320, C321, C324, C325, C326, C327, C411, C412, C413, C414, C415, C416, C420, C421, C424, C425, C426, C427 |
| 212-003-00 | B1 | CER 100PF 5% 50V NPO SM | 24 | C122, C123, C150, C151, C152, C153, C222, C223, C250, C251, C252, C253, C322, C323, C350, C351, C352, C353, C422, C423, C450, C451, C453, C454 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 25 | C1, C5, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C23, C24, C30, C31, C32, C33, C34, C35, C36, C37, C38 |
| 212-030-00 | A1 | CER 1UF 16V 10% X7R 1206 | 16 | C107, C108, C118, C119, C207, C208, C218, C219, C307, C308, C318, C319, C407, C408, C418, C419 |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 9 | C2, C3, C4, C9, C39, C40, C41, C42, C43 |
| 220-012-02 | B1 | LYT 4.7UF 20% 63V RAD TR | 8 | C7, C8, C22, C25, C26, C27, C28, C29 |
| 300-003-00 | A | DIO SW DL4148 100V SM | 56 | D107, D108, D109, D110, D111, D112, D113, D114, D115, D116, D117, D118, D119, D120, D207, D208, D209, D210, D211, D212, D213, D214, D215, D216, D217, D218, D219, D220, D307, D308, D309, D310, D311, D312, D313, D314, D315, D316, D317, D318, D319, D320, D407, D408, D409, D410, D411, D412, D413, D414, D415, D416, D417, D418, D419, D420 |
| 311-004-00 | B | XSTR SST112 SM | 8 | Q101, Q106, Q201, Q206, Q301, Q306, Q401, Q406 |
| 320-020-00 | A | IC, DUAL OP AMP NJM4565G | 30 | U2, U5, U6, U7, U8, U9, U103, U104, U105, U106, U107, U108, U203, U204, U205, U206, U207, U208, U303, U304, U305, U306, U307, U308, U403, U404, U405, U406, U407, U408 |
| 325-003-03 | A | CMOS 4051 8CH ANALOG MUX SM | 1 | U4 |
| 329-032-03 | A | AD7568 DAC OCTAL 12-BIT | 1 | U1 |
| 450-158-00 | A | PCB SERVO - HUI | 1 | Z101 |



055-165-00 REV A32 PCB ASSY DIGITAL INPUT - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|-----------------|
| 040-185-00 | B | RIB 28GA 14C TRANS 3.25 | 1 | J5 |
| 220-002-00 | A1 | LYT 47UF 20% 25V RAD | 1 | C9 |
| 329-008-00 | A | PC900V OPTOISOLATOR | 1 | U1 |
| 400-115-00 | A | DSUB 9P M RTA PCMT .318FT | 1 | J4 |
| 400-166-00 | A | JACK 1/4 HRZ PCMNT STEREO | 2 | J1, J2 |
| 400-202-00 | A | DIN MINI 4P RTA FULL SHLD | 2 | J6, J7 |
| 400-204-00 | A | DIN 5P RTA PC SHLD | 1 | J3 |
| 500-031-00 | A | SW PUSH 8PDT HORIZ | 1 | SW1 |
| 712-020-00 | A | BRKT ANG 6-32X.037THK STL | 1 | Z2, Z3 |
| 712-021-01 | B | RVT CL END .125X.062-.125 | 2 | Z4, Z5, Z6, Z7 |
| 050-165-00 | A32 | PCB AUTO DGTL INPUT - HUI | 1 | SEE NEXT PAGE |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



050-165-00 REV A32 PCB AUTO DGTL INPUT - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|---------------------------------------------------|
| 140-057-00 | A | RES TF SM .1W 5% 220 OHM | 1 | R7 |
| 140-065-00 | A | RES TF SM .1W 5% 470 OHM | 1 | R8 |
| 140-073-00 | A | RES TF SM .1W 5% 1K0 OHM | 4 | R1, R2, R4, R5 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 2 | R3, R6 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 4 | C1, C2, C3, C8 |
| 212-025-00 | D1 | CAP CER .1UF 50V 10% X7R | 4 | C4, C5, C6, C7 |
| 300-003-00 | A | DIO SW DL4148 100V SM | 1 | D1 |
| 311-001-00 | B | XSTR NPN IMBT4401 SMT | 2 | Q1, Q2 |
| 324-003-03 | C | MAX488 LOW PWR DRIVER SM | 1 | U2 |
| 324-004-03 | A | 232A DRIVER 5V SM | 1 | U3 |
| 450-165-00 | A | PCB DIGITAL INPUT - HUI | 1 | Z1 |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 10 | FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10 |



055-166-00 REV A22 PCB ASSY DIGITAL OUTPUT HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|-----------------|
| 040-187-00 | G01 | RIB 28GA 16C TRANS 4.75 | 1 | J8 |
| 220-002-00 | A1 | LYT 47UF 20% 25V RAD | 2 | C2, C4 |
| 220-019-00 | B1 | LYT 47UF 20% 16V RAD KS | 1 | C9 |
| 310-007-00 | A1 | XSTR NPN 2N4401 | 1 | Q3 |
| 400-115-00 | A | DSUB 9P M RTA PCMT .318FT | 1 | J6 |
| 400-166-00 | A | JACK 1/4 HRZ PCMNT STEREO | 2 | J1, J2 |
| 400-189-00 | A | HDR 14P .100X2 RTA SHRD | 1 | J7 |
| 400-202-00 | A | DIN MINI 4P RTA FULL SHLD | 2 | J4, J5 |
| 400-204-00 | A | DIN 5P RTA PC SHLD | 1 | J3 |
| 480-014-00 | A | SPEAKER PCMNT | 1 | S1 |
| 501-001-00 | A | RELAY POWER SPST 5V | 2 | K1, K2 |
| 712-020-00 | A | BRKT ANG 6-32X.037THK STL | 1 | Z2, Z3 |
| 712-021-01 | B | RVT CL END .125X.062-.125 | 2 | Z4, Z5, Z6, Z7 |
| 050-166-00 | A22 | PCB AUTO DGTL OUTPUT HUI | 1 | SEE NEXT PAGE |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



050-166-00 REV A22 PCB AUTO DIGITAL OUTPUT HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|-----------------------------------------------|-----|----------------------------------|
| 140-057-00 | A | RES TF SM .1W 5% 220 OHM | 2 | R3, R4 |
| 140-061-00 | A | RES TF SM .1W 5% 330 OHM | 1 | R9 |
| 140-073-00 | A | RES TF SM .1W 5% 1K0 OHM | 2 | R1, R2 |
| 140-082-00 | A | RES TF SM .1W 5% 2K4 OHM | 1 | R6 |
| 140-083-00 | A | RES TF SM .1W 5% 2K7 OHM | 1 | R7 |
| 140-093-00 | A | RES TF SM .1W 5% 6K8 OHM | 1 | R8 |
| 140-106-00 | A | RES TF SM .1W 5% 24K OHM | 1 | R5 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 8 | C1, C3, C5, C6, C7, C8, C10, C11 |
| 301-004-00 | A | DIO PWR DL4002 SM REPLACE WITH 0004136 S1B | 3 | D1, D2, D3 |
| 311-001-00 | B | XSTR NPN IMBT4401 SMT | 2 | Q1, Q2 |
| 325-019-03 | B | TTL 74HC00 QUAD NAND SM | 2 | U2, U3 |
| 325-020-03 | B | TTL 74HC04 HEX INV SM | 1 | U1 |
| 450-166-00 | A | PCB DIGITAL OUTPUT - HUI | 1 | Z1 |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 4 | FB1, FB2, FB3, FB4 |



055-216-00 REV B22 PCB ASSY FADER - HUI


| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|----------------------------------------|
| 040-160-00 | A | RIB 28GA TRANS 16C 3.75IN | 1 | |
| 040-164-00 | A | RIB 28GA TRANS 10C 3.75IN | 1 | |
| 040-167-00 | A | DIS 22GA 1007 2C .100 3IN | 8 | |
| 130-041-02 | 1 | POT SLD 10KB 100M MONO M | 8 | R9, R10, R11, R12, R13, R14, R15, R16 |
| 130-071-00 | A | POT TRIM 10K MULTI-TURN | 8 | R43, R46, R51, R54, R59, R62, R67, R70 |
| 706-033-01 | D | STDF SWAGE NO.4 X .542L F | 4 | Z2, Z3, Z4, Z5 |
| 050-216-00 | B22 | PCB AUTO FADER - HUI | 1 | SEE NEXT PAGE |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.






050-216-00 REV B22 PCB AUTO FADER - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------------------------------------------------------------------------------------------|-----|---------------------------|-----|--------------------------------------------------------------------------------------------------------------|
| 140-089-00 | A | RES TF SM .1W 5% 4K7 OHM | 8 | R55, R63, R72, R75, R78, R81, R84, R87 |
| 140-097-00 | A | RES TF SM .1W 5% 10K OHM | 8 | R95, R96, R97, R98, R99, R100, R101, R102 |
| 140-124-00 | A | RES TF SM .1W 5% 120K OHM | 8 | R42, R45, R50, R53, R58, R61, R66, R69 |
| 145-000-00 | B | RES TF SM .1W 0 OHM | 3 | R92, R93, R94 |
| 145-229-00 | B | RES MF SM .1W 1% 237 OHM | 1 | R89 |
| 145-289-00 | B | RES MF SM .1W 1% 1K00 OHM | 1 | R91 |
| 145-297-00 | B | RES MF SM .1W 1% 1K21 OHM | 1 | R90 |
| 145-318-00 | B | RES MF SM .1W 1% 2K00 OHM | 8 | R1, R5, R17, R21, R25, R29, R33, R37 |
| 145-389-00 | B | RES MF SM .1W 1% 10K0 OHM | 8 | R48, R64, R73, R76, R79, R82, R85, R88 |
| 145-393-00 | B | RES MF SM .1W 1% 11K0 OHM | 8 | R41, R44, R49, R52, R57, R60, R65, R68 |
| 145-418-00 | B | RES MF SM .1W 1% 20K0 OHM | 8 | R47, R56, R71, R74, R77, R80, R83, R86 |
| 145-456-00 | B | RES MF SM .1W 1% 49K9 OHM | 8 | R2, R6, R18, R22, R26, R30, R34, R38 |
| 145-547-00 | B | RES MF SM .1W 1% 442K OHM | 8 | R3, R7, R19, R23, R27, R31, R35, R39 |
| 145-581-00 | B | RES MF SM .1W 1% 1M0 OHM | 8 | R4, R8, R20, R24, R28, R32, R36, R40 |
| 212-001-00 | B1 | CER .01UF 10% 50V X7R SM | 20 | C1, C3, C5-C6, C8, C10, C12, C14, C16, C20, C25, C28-C30, C33-C34, C37-C38, C41, C42 |
| 212-005-00 | B1 | CER 20PF 5% 50V NPO SM | 8 | C2, C4, C7, C9, C11, C13, C15, C17 |
| 212-010-00 | B1 | CER .1 +80/-20 25V Z5U SM | 23 | C18-C19, C21, C26-C27, C31-C32, C35-C36, C39-C40, C43, C45, C50, C55, C60, C78, C79, C80, C81, C82, C83, C84 |
| 212-024-00 | A1 | CER 1UF 25V Y5V 1206 | 4 | C69, C70, C71, C72 |
| 212-025-00 | D1 | CAP CER .1UF 50V 10% X7R | 24 | C22, C24, C46, C48, C51, C53, C56, C58, C61-C68, C74-C77, C85, C86, C87, C88 |
| 224-018-00 | A1 | PLY 100PF 2% 50V SM | 8 | C23, C44, C47, C49, C52, C54, C57, C59 |
| 300-003-00 | A | DIO SW DL4148 100V SM | 16 | D17-D20, D23-D26, D29-D32, D35, D36, D37, D38 |
|  302-019-03 | A | DIO ZEN 10V 600W BIDIR SM | 8 | D1, D2, D3, D4, D5, D6, D7, D8 |
| 320-020-00 | A | IC, DUAL OP AMP NJM4565G | 5 | U5-U8, U17 |
| 323-010-00 | A | COMP DUAL MAX942 SM | 4 | U13, U14, U15, U16 |
| 325-032-03 | A | 4069U HEX INVERTER | 8 | U1-U4, U9, U10, U11, U12 |
| 450-216-00 | B | PCB FADER - HUI | 1 | |
| 601-004-00 | B | FERRITE CHIP 150 OHM | 9 | FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9 |



080-033-00 REV A5 SA POWER SUPPLY - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|----------------------------------------------------------------------------------------------|-----|---------------------------|-----|-----------------|
| 040-057-00 | B | 18GA 1015 GRN 6IN QD/LUG | 1 | |
| 040-172-00 | A | RIB 18GA 6C .156 5.50IN | 1 | |
| 040-173-00 | B | 18GA 1010 3/2C BRN/BLU 5 | 1 | |
| 040-182-00 | A | 18GA 1010 BRN 6.25 QD | 1 | |
| 040-183-00 | A | 18GA 1010 BLU 7.75 QD | 1 | |
| 040-184-00 | A | 18GA 1015 GRN 2.50 QD | 1 | |
| 055-107-00 | B10 | PCB ASSY PWR SPLY - HUI | 1 | SEE NEXT PAGE |
|  400-009-00 | A | IEC W/FUSEHOLDER | 1 | |
|  480-012-00 | B | SW PWR SPL 60W +5/+12/-12 | 1 | |
|  500-013-00 | A | SW RCKR SPST 6A PWR SFTY | 1 | |
|  510-040-00 | A | FUSE SB 1.25A 5X20 UL | 1 | |
| 550-290-00 | C00 | BRKT PWR SPLY - HUI | 1 | |
|  600-026-00 | 1 | XFMR 120V - HUI | 1 | |
| 611-040-02 | C | WIR 18G 1010 BRN 3.00 ST2 | 1 | |
| 700-028-00 | B | SEMS 6-32X1/4 PHP BLKZC | 12 | |
| 705-001-00 | A | KEPNUT 6-32 | 2 | |
| 740-001-00 | A | TYRAP 3-1/4L | 3 | |
| 740-002-00 | B | TYRAP MOUNT .75 X .75 | 2 | |
| 740-007-01 | A | GROMMET STRIP MEDIUM | | |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



055-107-00 REV B10 PCB ASSY POWER SUPPLY - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|--------------|-----|---------------------------|-----|-----------------|
| 100-080-00 | A | RES CF .125W 5% 20K OHM | 1 | |
| 100-097-00 | A | RES CF .125W 5% 100K OHM | 1 | |
| 105-201-00 | A | RES MF .125W 1% 121 OHM | 2 | |
| 105-335-00 | A | RES MF .125W 1% 2K74 OHM | 4 | |
| 110-001-00 | A | RES CF .25W 5% 10 OHM | 1 | |
| 110-049-00 | A | RES CF .25W 5% 1K OHM | 1 | |
| 110-071-00 | A | RES CF .25W 5% 8K2 OHM | 1 | |
| 125-027-00 | A | RES WW CEM 5W 5% 30 OHM | 2 | |
| 200-019-02 | A | PLY/BX .1UF 10% 63V TR | 4 | |
| 220-002-02 | A1 | LYT 47UF 20% 25V RAD | 2 | |
| 220-003-02 | B | LYT 47UF 20% 50V RAD TR | 2 | |
| 220-007-00 | B1 | LYT 100UF 20% 100V RAD | 1 | |
| 220-028-00 | A1 | LYT 4700UF 35V 20% RAD | 2 | |
| 220-031-02 | A1 | LYT 10UF 20 50V RAD KS TR | 2 | |
| 301-001-00 | A | DIO PWR 1N4002 | 12 | |
| 302-001-00 | A | DIO ZEN 1N5261B 47V 500MW | 1 | |
| 310-006-00 | A1 | XSTR NPN TIP29C | 2 | |
| ⚠ 321-008-00 | B | REG LM317T ADJ | 1 | |
| ⚠ 321-009-00 | A | REG LM337T ADJ | 1 | |
| 400-146-00 | A | HDR 5P .156X1 STR LOCK | 1 | |
| 400-173-00 | A | TERM .25 QKDS PCMT STABLE | 7 | |
| 400-219-00 | A | HDR 5P .156 LOCK KEY PIN4 | 1 | |
| 400-221-00 | A | HDR 7P .156 LOCK KEY PIN6 | 3 | |
| 400-224-00 | A | HDR 8P .156X1 LOCK KEYED | 1 | |
| 400-226-00 | A | HDR 6P .156X1 STR LOCK | 1 | |
| 450-107-00 | B00 | PCB POWER SUPPLY - HUI | 1 | |
| 660-002-00 | A | 24GA JUMPER WIRE TR | 1 | |
| 700-011-00 | A | MCH 4-40X1/4 BTNSKT BLKOX | 2 | |
| 705-005-00 | A | NUT LOCK 4-40 | 2 | |
| 712-042-00 | A | HEATSINK TO220 SCR MNT | 2 | |
| 730-001-00 | A | THERMAL COMPOUND | | |



080-042-00 REV A31 SA JOG SWITCH - HUI

| PART# | REV | DESCRIPTION | QTY | REF DESIGNATORS |
|------------|-----|---------------------------|-----|-----------------|
| 500-027-00 | A | SW ENCODER OPTI 128 CYCLE | 1 | |
| 550-289-00 | B1 | BRKT ENCODER - HUI | 1 | |
| 0000223 | A | NUT, HEX, THREADED, 1/4" | 0 | |
| 710-001-00 | A | WASH STAR 3/8 OD .02 THK | 1 | |
| 710-025-00 | A | WASH FLT AL .437IDX.628OD | 1 | |



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.

