

TAPS-6  
Master Parts List

| ASS'Y         | REF DES | COMPONENT  | VALUE        | ATTRIBUTES              | MFGR | PART NUMBER |
|---------------|---------|------------|--------------|-------------------------|------|-------------|
| PowerControl  | C1      | Capacitor  | 2.2          | 35V tantalum            |      |             |
| PowerControl  | C2      | Capacitor  | 1            | Ceramic monoblock       |      |             |
| PowerControl  | C3      | Capacitor  | 1            | Ceramic monoblock       |      |             |
| PowerControl  | C4      | Capacitor  | 0.01         | ceramic bypass          |      |             |
| PowerControl  | C5      | Capacitor  | 0.1          | ceramic bypass          |      |             |
| PowerControl  | C6      | Capacitor  | 0.1          | ceramic bypass          |      |             |
| PowerControl  | C7      | Capacitor  | 1            | Ceramic monoblock       |      |             |
| PowerControl  | C8      | Capacitor  | 0.1          | ceramic bypass          |      |             |
| PowerControl  | C9      | Capacitor  | 0.1          | ceramic bypass          |      |             |
| PowerControl  | C10     | Capacitor  | 10 uF        | 25V tantalum            |      |             |
| PowerControl  | C11     | Capacitor  | 10 uF        | 25 V tantalum           |      |             |
| PowerControl  | C12     | Capacitor  | 2.2          | 16V tantalum            |      |             |
| PowerControl  | D1      | Diode      | 1N4001       | silicon power diode     |      |             |
| PowerControl  | J1      | Connector  | 23-pin       | EDAC 423-023-520-102    |      |             |
| PowerControl  | Q1      | Transistor | 2N7000       | N-channel JFET          |      |             |
| PowerControl  | Q2      | Transistor | MTP8P08      | P-channel MOSFET        |      |             |
| PowerControl  | Q3      | Transistor | 2N7000       | N-channel JFET          |      |             |
| PowerControl  | Q4      | Transistor | MTP8P08      | P-channel MOSFET        |      |             |
| PowerControl  | Q5      | Transistor | 2N7000       | N-channel JFET          |      |             |
| PowerControl  | Q6      | Transistor | MTP8P08      | P-channel MOSFET        |      |             |
| PowerControl  | Q7      | Transistor | 2N4124       | NPN silicon             |      |             |
| PowerControl  | R1      | Resistor   | 470 k        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R2      | Resistor   | 1 M          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R3      | Resistor   | 100          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R4      | Resistor   | 100 k        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R5      | Resistor   | 1 k          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R6      | Resistor   | 100 k        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R7      | Resistor   | 100 k        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R8      | Resistor   | 10 K         | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R9      | Resistor   | 10 K         | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R10     | Resistor   | 100 K        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R11     | Resistor   | 47K          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R12     | Resistor   | 47K          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R13     | Resistor   | 3.65K        | 1% metal film           |      |             |
| PowerControl  | R14     | Resistor   | 220 K        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R15     | Resistor   | 1 K          | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R16     | Resistor   | 100 K        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R17     | Resistor   | 100 K        | 1/4 W 5% carbon film    |      |             |
| PowerControl  | R18     | Resistor   | 20.0 K       | 1% metal film           |      |             |
| PowerControl  | R19     | Resistor   | 4.42 K       | 1% metal film           |      |             |
| PowerControl  | U1      | IC         | IN125P       | instrument amp          |      |             |
| PowerControl  | U2      | IC         | 74HC00       | quad dual-input NAND    |      |             |
| PowerControl  | U3      | IC         | 78L15        | regulator               |      |             |
| PowerControl  | U4      | IC         | ICL7662CPA   | DC-DC voltage converter |      |             |
| PowerControl  | U5      | IC         | LP2950CZ-5.0 | low power 5V regulator  |      |             |
| InstInterface | C1      | Capacitor  | 2.2          | 35V tantalum            |      |             |
| InstInterface | C2      | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C3      | Capacitor  | 2.2          | 16V tantalum            |      |             |
| InstInterface | C4      | Capacitor  | 10           | 16V tantalum            |      |             |
| InstInterface | C5      | Capacitor  | 10           | 16V tantalum            |      |             |
| InstInterface | C6      | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C7      | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C8      | Capacitor  | selected     |                         |      |             |
| InstInterface | C9      | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C10     | Capacitor  | 0.01         | 5% NPO chip ceramic     |      |             |
| InstInterface | C11     | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C12     | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C13     | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C14     | Capacitor  | selected     |                         |      |             |
| InstInterface | C15     | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | C16     | Capacitor  | 0.01         | 5% NPO chip ceramic     |      |             |
| InstInterface | C17     | Capacitor  | 0.1          | ceramic disc            |      |             |
| InstInterface | D1      | Diode      | 1N4148       | silicon signal diode    |      |             |
| InstInterface | F1      | Fuse       | 1A           | Littlefuse 5761-73001   |      |             |
| InstInterface | F2      | Fuse       | 1A           | Littlefuse 5761-73001   |      |             |
| InstInterface | J1      | Connector  | 23-pin       | EDAC 423-023-520-102    |      |             |

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|               |     |             |              |                                |  |  |
|---------------|-----|-------------|--------------|--------------------------------|--|--|
| InstInterface | Q1  | Transistor  | 2N4124       | NPN silicon                    |  |  |
| InstInterface | Q2  | Transistor  | 2N4124       | NPN silicon                    |  |  |
| InstInterface | Q3  | Transistor  | 2N3904       | NPN silicon                    |  |  |
| InstInterface | R1  | Resistor    | 180          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R2  | Resistor    | 180          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R3  | Resistor    | 100          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R4  | Resistor    | 100          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R5  | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R6  | Resistor    | 4.7 k        | 1/4W, 5% carbon film           |  |  |
| InstInterface | R7  | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R8  | Resistor    | selected     | 1/4W, 5% carbon film           |  |  |
| InstInterface | R9  | Resistor    | selected     | 1/4W, 5% carbon film           |  |  |
| InstInterface | R10 | Resistor    | selected     | cermet potentiometer           |  |  |
| InstInterface | R11 | Resistor    | selected     | 1/4W, 5% carbon film           |  |  |
| InstInterface | R12 | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R13 | Resistor    | 1 k          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R14 | Resistor    | 180          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R15 | Resistor    | 180          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R16 | Resistor    | 100          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R17 | Resistor    | 100          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R18 | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R19 | Resistor    | 4.7 k        | 1/4W, 5% carbon film           |  |  |
| InstInterface | R20 | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R21 | Resistor    | selected     | 1/4W, 5% carbon film           |  |  |
| InstInterface | R22 | Resistor    | selected     |                                |  |  |
| InstInterface | R23 | Resistor    | selected     | cermet potentiometer           |  |  |
| InstInterface | R24 | Resistor    | selected     |                                |  |  |
| InstInterface | R25 | Resistor    | 22 k         | 1/4W, 5% carbon film           |  |  |
| InstInterface | R26 | Resistor    | 1 k          | 1/4W, 5% carbon film           |  |  |
| InstInterface | R27 | Resistor    | selected     | user-installed                 |  |  |
| InstInterface | SW1 | Switch      | DIP-5        | AMP 571-4356403                |  |  |
| InstInterface | SW2 | Switch      | DIP-5        | AMP 571-4356403                |  |  |
| InstInterface | T1  | Transformer | T            | 1811-3B9 potcore               |  |  |
| InstInterface | T2  | Transformer |              | 1811-3B9 potcore               |  |  |
| InstInterface | U1  | IC          | LM311N       | comparator                     |  |  |
| InstInterface | U2  | IC          | AD537JH      | voltage-to-frequency converter |  |  |
| InstInterface | U3  | IC          | LM311N       | comparator                     |  |  |
| InstInterface | U4  | IC          | AD537JH      | voltage-to-frequency converter |  |  |
| InstInterface | U5  | IC          | LM7812CT     | 15V regulator                  |  |  |
| InstInterface | U6  | IC          | LP2950CZ-5.0 | low power 5V regulator         |  |  |
| InstInterface | U7  | IC          | ICL7662      | DC-DC converter                |  |  |
| CPU-I/O       | C1  | Capacitor   | 10 $\mu$ F   | 10V tantalum                   |  |  |
| CPU-I/O       | C2  | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C3  | Capacitor   | 0.01 $\mu$ F | ceramic bypass                 |  |  |
| CPU-I/O       | C4  | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C5  | Capacitor   | .01 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C6  | Capacitor   | 22 $\mu$ F   | 10V tantalum                   |  |  |
| CPU-I/O       | C7  | Capacitor   | 22 $\mu$ F   | 10V tantalum                   |  |  |
| CPU-I/O       | C8  | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C9  | Capacitor   | .33 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C10 | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C11 | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C12 | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C13 | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C14 | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C15 | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C16 | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C17 | Capacitor   | 1.0 $\mu$ F  | monoblock ceramic              |  |  |
| CPU-I/O       | C18 | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C19 | Capacitor   | 4.7 $\mu$ F  | 16V tantalum                   |  |  |
| CPU-I/O       | C20 | Capacitor   | 0.01 $\mu$ F | ceramic bypass                 |  |  |
| CPU-I/O       | C21 | Capacitor   | 0.01 $\mu$ F | ceramic bypass                 |  |  |
| CPU-I/O       | C22 | Capacitor   | 0.1 $\mu$ F  | ceramic bypass                 |  |  |
| CPU-I/O       | C23 | Capacitor   | 2.2 $\mu$ F  | 10V tanatlum                   |  |  |
| CPU-I/O       | C24 | Capacitor   | 0.01 $\mu$ F | ceramic bypass                 |  |  |

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|              |      |           |                     |                              |      |  |
|--------------|------|-----------|---------------------|------------------------------|------|--|
| CPU-I/O      | C25  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | C26  | Capacitor | 0.1 $\mu$ F         | ceramic bypass               |      |  |
| CPU-I/O      | C27  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | C28  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | C29  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | C30  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | C31  | Capacitor | 0.01 $\mu$ F        | ceramic bypass               |      |  |
| CPU-I/O      | D1   | Diode     | 1N4148              | silicon signal diode         |      |  |
| CPU-I/O      | D2   | Diode     | 1N4148              | silicon signal diode         |      |  |
| CPU-I/O      | J1   | Connector | 23-pin              | 423-023-520-102              | EDAC |  |
| CPU-I/O      | J2   | Connector | IDS 8               |                              |      |  |
| CPU-I/O      | J3   | Connector | IDS 8               |                              |      |  |
| CPU-I/O      | J4   | Connector | IDS 8               |                              |      |  |
| CPU-I/O      | J5   | Connector | IDS 2 x 17          |                              |      |  |
| CPU-I/O      | J6   | Connector | IDS 8               |                              |      |  |
| CPU-I/O      | R1   | Resistor  | 100K                | 10-pin SIP array             |      |  |
| CPU-I/O      | R2   | Resistor  | 20 K                | 1% metal film                |      |  |
| CPU-I/O      | R3   | Resistor  | 30 K                | .01% metal film              |      |  |
| CPU-I/O      | R4   | Resistor  | 30 K                | .01% metal film              |      |  |
| CPU-I/O      | R5   | Resistor  | 15 K                | .01% metal film              |      |  |
| CPU-I/O      | R6   | Resistor  | 15 K                | .01% metal film              |      |  |
| CPU-I/O      | R7   | Resistor  | 10                  | 1/4W carbon film             |      |  |
| CPU-I/O      | R8   | Resistor  | 10K                 | 1/4W carbon film             |      |  |
| CPU-I/O      | R9   | Resistor  | 10                  | 1/4W carbon film             |      |  |
| CPU-I/O      | R10  | Resistor  | 1K                  | 1/4W carbon film             |      |  |
| CPU-I/O      | R11  | Resistor  | 100K                | 1/4W carbon film             |      |  |
| CPU-I/O      | R12  | Resistor  | 1K                  | 1/4W carbon film             |      |  |
| CPU-I/O      | R13  | Resistor  | 100K                | 1/4W carbon film             |      |  |
| CPU-I/O      | U01  | IC        | MAX186ACPP          | 8 channel, 12-bit serial ADC |      |  |
| CPU-I/O      | U02  | IC        | 74HC237             | 3-8 decoder w/latches        |      |  |
| CPU-I/O      | U03  | IC        | ICL7662ACP          | DC-DC Inverter               |      |  |
| CPU-I/O      | U04  | IC        | MAX483ECPA          | RS-485 bus transceiver       |      |  |
| CPU-I/O      | U05  | IC        | MAX3223EPP          | RS232 driver w/shutdown      |      |  |
| CPU-I/O      | U06  | IC        | MAX110ACPE          | 14-bit, 2-chan serial ADC    |      |  |
| CPU-I/O      | U07  | IC        | 54HC688N            | 8-bit comparator             |      |  |
| CPU-I/O      | U08  | IC        | 74HC138             | 3-8 line decoder             |      |  |
| CPU-I/O      | U09  | IC        | 74HCT32             | quad 2-input OR gate         |      |  |
| CPU-I/O      | U10  | IC        | 74HCT00             | quad 2-input NAND gate       |      |  |
| CPU-I/O      | U11  | IC        | 74HC574             | Octal D-type flip-flop       |      |  |
| CPU-I/O      | U12  | IC        | 74HC574             | Octal D-type flip-flop       |      |  |
| CPU-I/O      | U13  | IC        | 74HC574             | Octal D-type flip-flop       |      |  |
| CPU-I/O      | U14  | IC        | DS1265AB-100        | 512Kbyte NVRAM               |      |  |
| CPU-I/O      | U15  | IC        | 74HCT04             | hex inverter                 |      |  |
| CPU-I/O      | U16  | IC        | 74HC574             | Octal D-type flip-flop       |      |  |
| TransceiverV | C01  | Capacitor | .001 (if installed) | ceramic                      |      |  |
| TransceiverV | C02  | Capacitor | selected            | NPO ceramic                  |      |  |
| TransceiverV | C03  | Capacitor | Selected            | NPO ceramic                  |      |  |
| TransceiverV | C04  | Capacitor | Selected            | NPO ceramic                  |      |  |
| TransceiverV | C05  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C06  | Capacitor | n/a                 |                              |      |  |
| TransceiverV | C07  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C10  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C101 | Capacitor | .001 (if installed) | ceramic                      |      |  |
| TransceiverV | C102 | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C104 | Capacitor | 10                  | 15V tantalum                 |      |  |
| TransceiverV | C105 | Capacitor | 10                  | 16V tantalum                 |      |  |
| TransceiverV | C106 | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C107 | Capacitor | 4.7                 | 35V tantalum                 |      |  |
| TransceiverV | C11  | Capacitor | n/a                 |                              |      |  |
| TransceiverV | C12  | Capacitor | selected            | NPO chip ceramic             |      |  |
| TransceiverV | C13  | Capacitor | selected            | NPO chip ceramic             |      |  |
| TransceiverV | C14  | Capacitor | 1000 pF             | NPO chip ceramic             |      |  |
| TransceiverV | C15  | Capacitor | 50 pF               | Ceramic disk                 |      |  |
| TransceiverV | C16  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C18  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C19  | Capacitor | 0.1                 | ceramic bypass               |      |  |
| TransceiverV | C20  | Capacitor | 0.1                 | ceramic bypass               |      |  |

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|              |      |            |                 |                       |  |
|--------------|------|------------|-----------------|-----------------------|--|
| TransceiverV | C21  | Capacitor  | 1.0             | 50V monoblock ceramic |  |
| TransceiverV | C22  | Capacitor  | 470 pF          | NPO chip ceramic      |  |
| TransceiverV | C23  | Capacitor  | 680 pF          | NPO chip ceramic      |  |
| TransceiverV | C24  | Capacitor  | 680 pF          | NPO chip ceramic      |  |
| TransceiverV | C25  | Capacitor  | 0.1             | ceramic bypass        |  |
| TransceiverV | C26  | Capacitor  | 2.2             | 35V tantalum          |  |
| TransceiverV | C27  | Capacitor  | 0.1             | ceramic bypass        |  |
| TransceiverV | C28  | Capacitor  | 0.001           | ceramic bypass        |  |
| TransceiverV | C29  | Capacitor  | 0.33            | ceramic bypass        |  |
| TransceiverV | C30  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C301 | Capacitor  | 0.1             | ceramic bypass        |  |
| TransceiverV | C302 | Capacitor  | 0.1             | ceramic bypass        |  |
| TransceiverV | C31  | Capacitor  | 2.2             | 16V tantalum          |  |
| TransceiverV | C32  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C32A | Capacitor  | 2.2             | 16V tantalum          |  |
| TransceiverV | C33  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C34  | Capacitor  | 4.7             | 35V tantalum          |  |
| TransceiverV | C35  | Capacitor  | 0.1             | ceramic bypass        |  |
| TransceiverV | C36  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C36A | Capacitor  | 2.2             | 16V tantalum          |  |
| TransceiverV | C38  | Capacitor  | 1.0 uF          | 50V ceramic monoblock |  |
| TransceiverV | C39  | Capacitor  | 27000 uF        | 25WVDC electrolytic   |  |
| TransceiverV | C40  | Capacitor  | n/a             |                       |  |
| TransceiverV | C41  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C43  | Capacitor  | 0.33            | ceramic bypass        |  |
| TransceiverV | C44  | Capacitor  | 4.7             | 35V tantalum          |  |
| TransceiverV | C45  | Capacitor  | 0.01            | ceramic bypass        |  |
| TransceiverV | C46  | Capacitor  | 0.1 uF          | ceramic bypass        |  |
| TransceiverV | C47  | Capacitor  | 2.2 uF          | 16V tantalum          |  |
| TransceiverV | D1   | Diode      | 1N4937          | fast-recovery diode   |  |
| TransceiverV | D2   | Diode      | 1N4937          | fast-recovery diode   |  |
| TransceiverV | D3   | Diode      | 1N5817          | shottky diode         |  |
| TransceiverV | D4   | Diode      | 1N4758A         | 56V zener             |  |
| TransceiverV | D5   | Diode      | 1N4758A         | 56 V zener            |  |
| TransceiverV | D6   | Diode      | n/a             |                       |  |
| TransceiverV | D7   | Diode      | n/a             |                       |  |
| TransceiverV | D8   | Diode      | n/a             |                       |  |
| TransceiverV | D101 | Diode      | 1N4934          | switching diode       |  |
| TransceiverV | D102 | Diode      | 1N4934          | switching diode       |  |
| TransceiverV | FL2  | Filter     | 35 KHz Bandpass | TTE 35K-20K-1K/1K-230 |  |
| TransceiverV | J1   | Connector  | 23-pin          | EDAC 423-023-520-102  |  |
| TransceiverV | L1   | Inductor   | 150 uH          | molded inductor       |  |
| TransceiverV | L101 | Inductor   | 150 uH          | molded inductor       |  |
| TransceiverV | L2   | Inductor   | selected        | chip inductor         |  |
| TransceiverV | L3   | Inductor   | selected        | chip inductor         |  |
| TransceiverV | M1   | Mixer      | SRA-8           | doubly-balanced mixer |  |
| TransceiverV | Q01  | Transistor | 2N7000          | N-ch JFET             |  |
| TransceiverV | Q02  | Transistor | 2N5457          | N-ch JFET             |  |
| TransceiverV | Q03  | Transistor | IRF 530         | VFET                  |  |
| TransceiverV | Q04  | Transistor | IRF 530         | VFET                  |  |
| TransceiverV | R01  | Resistor   | 220K            | 1/4W carbon film      |  |
| TransceiverV | R02  | Resistor   | 10K             | 1/4W carbon film      |  |
| TransceiverV | R03  | Resistor   | 10K             | 1/4W carbon film      |  |
| TransceiverV | R04  | Resistor   | 1.8K            | 1% mf                 |  |
| TransceiverV | R05  | Resistor   | 100             | 1% mf                 |  |
| TransceiverV | R06  | Resistor   | 2.0K            | 1% mf                 |  |
| TransceiverV | R07  | Resistor   | 100             | 1/4W carbon film      |  |
| TransceiverV | R13  | Resistor   | 51              | 1% mf                 |  |
| TransceiverV | R14  | Resistor   | 1.8K            | 1% mf                 |  |
| TransceiverV | R15  | Resistor   | 100             | 1% mf                 |  |
| TransceiverV | R16  | Resistor   | selected        | 1% mf                 |  |
| TransceiverV | R17  | Resistor   | 100             | 1/4W carbon film      |  |
| TransceiverV | R18  | Resistor   | 1.02 K          | 1% mf                 |  |
| TransceiverV | R19  | Resistor   | 1.02 K          | 1% mf                 |  |
| TransceiverV | R21  | Resistor   | selected        | 1% mf                 |  |
| TransceiverV | R22  | Resistor   | 100             | 1/4W carbon film      |  |
| TransceiverV | R23  | Resistor   | 20.0K           | 1% mf                 |  |

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|              |      |                 |                   |   |                   |                          |
|--------------|------|-----------------|-------------------|---|-------------------|--------------------------|
| TransceiverV | R24  | Resistor        | 10.0K             | 1% mf   |                   |                          |
| TransceiverV | R25  | Resistor        | 100               | 1/4W carbon film  |                   |                          |
| TransceiverV | R26  | Resistor        | 22K               | 1/4W carbon film  |                   |                          |
| TransceiverV | R27  | Resistor        | selected          | 1% mf   |                   |                          |
| TransceiverV | R28  | Resistor        | 1 M               | 1/4W carbon film  |                   |                          |
| TransceiverV | R29  | Resistor        | 50K               | met potentiometer   |                   |                          |
| TransceiverV | R30  | Resistor        | 51.1              | 1% mf   |                   |                          |
| TransceiverV | R301 | Resistor        | 10K               | 1% mf   |                   |                          |
| TransceiverV | R33  | Resistor        | 1K                | 1/4W carbon film  |                   |                          |
| TransceiverV | R34  | Resistor        | 220K              | 1/4W carbon film  |                   |                          |
| TransceiverV | R35  | Resistor        | n/a               | 1/4W carbon film  |                   |                          |
| TransceiverV | R36  | Resistor        | 0                 | shorting clip   |                   |                          |
| TransceiverV | R37  | Resistor        | 220K              | 1/4W carbon film  |                   |                          |
| TransceiverV | R38  | Resistor        | 150K              | 1/4W carbon film  |                   |                          |
| TransceiverV | R39  | Resistor        | 1M                | 1/4W carbon film  |                   |                          |
| TransceiverV | R42  | Resistor        | 22                | 1/4W carbon film  |                   |                          |
| TransceiverV | R43  | Resistor        | 22                | 1/4W carbon film  |                   |                          |
| TransceiverV | R45  | Resistor        | 47                | 1/4W carbon film  |                   |                          |
| TransceiverV | R46  | Resistor        | n/a               |   |                   |                          |
| TransceiverV | R47  | Resistor        | n/a               |   |                   |                          |
| TransceiverV | T1   | Transformer     | MCL T36-1 X65     | RF transformer  | MiniCircuits Labs | MCL T36-1 X65            |
| TransceiverV | T2   | Transformer     | MCL T36-1 X65     | RF transformer  | MiniCircuits Labs | MCL T36-1 X65            |
| TransceiverV | T3   | Transformer     | T6A or T6B        | power transformer   | Tracor            |                          |
| TransceiverV | U01  | IC              | AD829JN           | low-noise amplifier   | Analog Devices    |                          |
| TransceiverV | U03  | IC              | BUF634            | high-speed buffer   |                   |                          |
| TransceiverV | U04  | IC              | AD711KN           | medium-speed amplifier                                      | Analog Devices    |                          |
| TransceiverV | U05  | IC              | AD536A            | RMS-DC Converter  | Analog Devices    |                          |
| TransceiverV | U06  | IC              | AD829JN           | low-noise amplifier   | Analog Devices    |                          |
| TransceiverV | U08  | IC              | 74HC221           | Dual one-shot   |                   |                          |
| TransceiverV | U09  | IC              | 74HC73            | Dual J-K flip-flop  |                   |                          |
| TransceiverV | U11  | IC              | MAX626            | VFET driver   | Maxim             |                          |
| TransceiverV | U12  | IC              | HA7210            | crystal oscillator  | Harris            |                          |
| TransceiverV | U13  | IC              | 74HC74            | Dual-D flip-flop  |                   |                          |
| TransceiverV | U14  | IC              | 7815CT            | 15V fixed regulator   |                   |                          |
| TransceiverV | U15  | IC              | LP2950CZ-5.0      | low power +5V regulator                                     |                   |                          |
| TransceiverV | U16  | IC              | LM78L12           | 12V fixed regulator   |                   |                          |
| TransceiverV | U17  | IC              | TLE2426           | rail-splitter   | Texas Instruments |                          |
| TransceiverV | U18  | IC              | LM78L12           | 12V fixed regulator   |                   |                          |
| TransceiverV | U19  | IC              | TLE2426           | Rail splitter   | Texas Instruments |                          |
| TransceiverV | U301 | IC              | TLE2426           | Rail splitter   | Texas Instruments |                          |
| TransceiverV | Y1   | Crystal         | see crystal table | series, 32 pF load  | JAN Crystals      |                          |
| TransceiverV | Y2   | Crystal         | see crystal table | series, 32 pF load  | JAN Crystals      |                          |
| TransceiverV | Z1   | Tuning          | Selected          | toroid inductor   | Tracor            |                          |
| TransceiverV | Z2   | Tuning          | Selected          | capacitor   | Tracor            |                          |
| TransceiverV | Z3   | Tuning          | Selected          | toroid inductor   | Tracor            |                          |
| Endcap       | P1   | Pressure sensor |                   | 300 psia pressure sensor (standard; other ranges available) | Sensometrics      | 0                        |
| Endcap       | X1   | Thermistor      |                   | 3/16" diameter SS thermistor assembly                       | Logan             | 0                        |
| Endcap       | J1   | Connector       |                   | 8-pin bulkhead connector                                    | Impulse           | 0                        |
| Endcap       | J2   | Connector       |                   | 2-socket bulkhead connector                                 | Impulse           | 0                        |
| Endcap       | J3   | Connector       |                   | 4-pin bulkhead connector (WetStar)                          | Impulse           | 0                        |
| Endcap       | J4   | Connector       |                   | 3-pin bulkhead connector (SBE-4)                            | Impulse           | 0                        |
| Endcap       |      | Plug            |                   | Shorting plug   | Impulse           | VMF-2-#16-FSD HP Shorted |
| Endcap       |      | Plug            |                   | dummy plug  | Impulse           | RMG-3-FSD-LP             |
| Endcap       |      | Plug            |                   | dummy plug  | Impulse           | RMG-4-FSD-LP             |
| Endcap       |      | Plug            |                   | dummy plug  | Impulse           | RMK-8-FSD LP             |
| Endcap       |      | Backshell       |                   | backshell   | Impulse           | VSF-FLS-X                |
| Endcap       |      | Backshell       |                   | backshell   | Impulse           | G-FLS-P                  |
| Endcap       |      | Backshell       |                   | backshell   | Impulse           | K-FLS-P                  |
| Endcap       |      | o-ring          |                   | used on endcaps, deep submergence                           | Parker            | 0                        |

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|         |       |              |        |                                   |          |                   |
|---------|-------|--------------|--------|-----------------------------------|----------|-------------------|
| Endcap  |       | o-ring       |        | used on endcaps, <600 m depths    | Parker   | 0                 |
| Endcap  |       | o-ring       |        | used under depth sensor           | Parker   | 0                 |
| Endcap  |       | cover        |        | neoprene cover for depth sensor   | Tracor   | 0                 |
| Endcap  |       | clamp plate  |        | zinc clamp plate for depth sensor | Tracor   | 0                 |
| Charger | J1    | Jack         |        | Bulkhead connector                | Amphenol | 97-3102A-18-08P   |
| Charger | J2    | Jack         | DB9P   | Serial connector                  |          |                   |
| Charger | J3    | Jack         | IDS-4  | 4-pin IDS connector               |          |                   |
| Charger | J4    | Jack         | EAC309 | AC receptacle                     |          |                   |
| Charger | S1    | Switch       | DPST   | AC power switch                   | Eaton    | 8928K481          |
| Charger |       | Cable        |        | AC power cable - US               |          |                   |
| Charger |       | Cable        |        | AC power cable - AUS              |          |                   |
| Charger |       | Cable        |        | AC power cable - JAPAN            |          |                   |
| Charger |       | Cable        |        | AC power cable - FRANCE           |          |                   |
| Charger | L1    | Lamp         | 5V     | 5V indicator lamp                 | Dialight | 507-4757-3331-500 |
| Charger | L2    | Lamp         | 28V    | 28V indicator lamp                | Dialight | 507-3918-1471-600 |
| Charger |       | Lamp socket  |        | Lamp socket                       | Dialight | 508-8738-504      |
| Charger | D1    | Diode        | 1N4001 | 50V/1 amp silicon diode           |          |                   |
| Charger | PS1   | Power Supply |        |                                   |          |                   |
| Charger | TP1 + | Test point   |        | Red panel jack                    |          |                   |
| Charger | TP1 - | Test point   |        | Black panel jack                  |          |                   |
| Charger | F1    | Fuseholder   |        | Fuse holder                       |          |                   |
| Charger |       | Fuse         | 3AG-3  | fast-blow fuse                    |          |                   |