

Part: C903RV  
 Description: Tiburon II ROV System - RV  
 Size:

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|---------------------|------------|--------------|--------------------------------------------------------------------------|------------|------------|
| 1                   |            | AB3933       | ASSEMBLY HYDRAULICS MBARI ROV                                            | 1          |            |
| . . 1               |            | . AB3934     | HYD CIRCUIT AND FITTINGS ASSEMBLY / MBARI ROV                            | 1          |            |
| . . . 1             |            | . . AB8264   | PLATE COMP FILL BULKHEAD                                                 | 1          |            |
| . . . 3             |            | . . PD3852   | TEST POINT SS 1/4" BSP SMK2004/4PCSS / STAUFF                            | 3          | D6E        |
| . . . 4             |            | . . PD5431   | FITTING MMA / M12(1.5) X 1/4"BSP CONE SS                                 | 2          | D10E       |
| . . . 5             |            | . . AB8241   | HOSE ASSY                                                                | 2          |            |
| . . . 6             |            | . . WA0932   | SEAL O-RING BS904 (8.92 x 1.83) 7/16"UNF                                 | 33         | OR 7C      |
| . . . 7             |            | . . WA1077   | SEAL BONDED SS 1/4"BSP                                                   | 1          | N12G       |
| . . . 8             |            | . . WA1079   | SEAL BONDED SS 1/2"BSP                                                   | 6          | N12G       |
| . . . 9             |            | . . PF1113   | SEAL O-RING BS920 (37.46 x 3.00) / 1-5/8"UNF                             | 2          |            |
| . . . 10            |            | . . PB7256   | SEAL BONDED SS 3/4"BSP                                                   | 14         | N12G       |
| . . . 11            |            | . . WA1076   | SEAL BONDED SS 1/8"BSP                                                   | 7          | N13A       |
| . . . 12            |            | . . WA1078   | SEAL BONDED SS 3/8"BSP                                                   | 10         | N13A       |
| . . . 13            |            | . . AA0388   | FITTING PLUG 1-5/16"UNF HEX SS                                           | 1          | D10C       |
| . . . 14            |            | . . AA0406   | FITTING PLUG 9/16"UNF SS                                                 | 7          | D10D       |
| . . . 15            |            | . . AA3132   | ELBOW POSITIONAL 3/4"BSP x 3/4" TUBE SS /<br>SWAGELOK SS-1210-2-12PR     | 8          | D7G        |
| . . 16              |            | . . AA3155   | CONNECTOR MALE 3/4" BSPP 3/4" TUBE / SWAGELOK<br>SS-1210-1-12RS          | 6          | D7D        |
| . . 17              |            | . . OF 4108  | CONNECTOR MALE 3/4"UNF x 1/2" TUBE / SWAGELOK<br>SS-810-1-8ST            | 4          | D8D        |
| . . 18              |            | . . AA4865   | CONNECTOR MALE 1/8" BSP 1/4" TUBE SS / SWAGELOK<br>SS-400-1-2RS          | 4          | D8E        |
| . . 19              |            | . . AA7697   | FITTING ADAPTOR 1/4" STANDPIPE / 1/4" PUSH-LOK SS                        | 18         | D8D        |
| . . 20              |            | . . AA3153   | ADAPTOR MALE 3/8" BSPP 3/8" STANDPIPE /<br>SWAGELOK SS-6-TA-1-6RS        | 8          | D7D        |
| . . 21              |            | . . AA3189   | UNION ELBOW 3/8" / SWAGELOK SS-600-9                                     | 14         | D7F        |
| . . 22              |            | . . AA3252   | ADAPTOR MALE 1/8" BSPP 1/4" STANDPIPE /<br>SWAGELOK SS-4-TA-1-2RS        | 2          | D8E        |
| . . 23              |            | . . OF 3037  | ELBOW 1/4" UNION SS A4                                                   | 7          | D8F        |
| . . 24              |            | . . AA3890   | CONNECTOR MALE 3/4"UNF - 3/4" TUBE SS /<br>SWAGELOK SS-1210-1-8ST        | 18         | D8F        |
| . . 25              |            | . . AA3151   | CONNECTOR MALE 1/2" BSPP 1/2" TUBE / SWAGELOK<br>SS-810-1-8RS            | 2          | D7C        |
| . . 26              |            | . . AA4484   | CONNECTOR MALE 9/16" UNF x 3/8" TUBE /<br>SS-600-1-6ST                   | 8          | D8E        |
| . . 27              |            | . . AA3164   | CONNECTOR MALE 3/8" TUBE 3/4" 16 UNF / SWAGELOK<br>SS-600-1-8ST          | 1          | D10C       |
| . . 28              |            | . . AA3160   | REDUCER 1/4" STANDPIPE 3/8" TUBE / SWAGELOK<br>SS-600-R-4                | 1          | D8D        |
| . . 29              |            | . . AA3113   | FITTING ADAPTOR 3/8" STANDPIPE / 3/8" PUSH-LOK SS<br>- PARKER 33482-6-6C | 46         | D7B        |
| . . 30              |            | . . AA3114   | FITTING ADAPTOR 1/2" STANDPIPE / 1/2" PUSH-LOK SS<br>- PARKER 33482-8-8C | 4          | D7E        |
| . . 31              |            | . . AA7696   | PUSH-LOK HOSE 1/4" / 831-4 (BLUE)                                        | 6          | L12E       |
| . . 32              |            | . . AA3095   | PUSH-LOK HOSE 3/8" / 831-6 (BLACK)                                       | 6          | L12B       |
| . . 33              |            | . . AA3096   | PUSH-LOK HOSE 1/2" / 831-8 (BLACK)                                       | 4          | L12A       |
| . . 35              |            | . . AB8239   | ASSEMBLY DECKPACK CONNECTION RETURN /<br>NON-BSP                         | 1          |            |
| . . . 1             |            | . . . WA3125 | SEAL O-RING BS910 (19.18 x 2.46) 7/8"UNF                                 | 1          | OR 7D      |
| . . . 2             |            | . . . AB8259 | ADAPTOR MALE 7/8"UNF x 5/8" STANDPIPE / SWAGELOK<br>SS-10-TA-1-10ST      | 1          |            |
| . . . 3             |            | . . . AB8260 | UNION ELBOW 5/8" / SWAGELOK SS-1010-9                                    | 1          |            |
| . . . 4             |            | . . . AA3155 | CONNECTOR MALE 3/4" BSPP 3/4" TUBE / SWAGELOK<br>SS-1210-1-12RS          | 1          | D7D        |
| . . . 5             |            | . . . AB8441 | REDUCER 5/8" TUBE x 3/4" STANDPIPE / SWAGELOK<br>SS-1010-R-12            | 1          |            |
| . . . 6             |            | . . . AB8442 | PORT CONNECTOR 5/8" / SWAGELOK SS-1011-PC                                | 1          |            |
| . . . 7             |            | . . . PB7256 | SEAL BONDED SS 3/4"BSP                                                   | 2          | N12G       |
| . . . 8             |            | . . . AB8474 | COUPLING Q/R CARRIER 3/4" FASTER                                         | 1          | D9C        |
| . . . 9             |            | . . . AB8475 | COUPLING Q/R PROBE 3/4" FASTER                                           | 1          |            |
| . . . 10            |            | . . . PJ7404 | FITTING MMA 1-1/16" JIC x 3/4" BSP SS                                    | 1          | D8D        |
| . . . 11            |            | . . . AB8228 | FITTING CAP 1-1/16"JIC SS                                                | 1          |            |
| . . 36              |            | . . AB8223   | FITTING ELBOW / POSITIONAL 1-5/8"UNF x 1-5/8"JIC SS                      | 1          |            |
| . . 37              |            | . . AA0886   | FITTING MMA / 1-5/16"UNF x 1-5/16"JIC SS                                 | 1          | D10D       |
| . . 38              |            | . . AB8222   | FITTING MMA / 1-5/8"UNF x 1-5/16"JIC SS                                  | 1          |            |
| . . 39              |            | . . AA2239   | FITTING ELBOW / 1-5/16"JIC MFS SS                                        | 1          |            |
| . . 40              |            | . . AB8220   | FITTING MFS 1-5/16"UNF x 1-5/16"JIC SS                                   | 1          |            |
| . . 41              |            | . . PH9935   | ASSEMBLY 1-1/2" SAE 3000 SPLIT CLAMPS SS                                 | 1          |            |
| . . . 1             |            | . . . PA0024 | WASHER M12 SPRING SS                                                     | 4          | DUCT       |
| . . . 2             |            | . . . PB4335 | SEAL O-RING 1-1/2"SAE                                                    | 1          | OR 3F      |
| . . . 3             |            | . . . PB4759 | BOLT M12 x 35 SHCS SS A4 - 80                                            | 4          | DUCT       |
| . . . 4             |            | . . . PH7944 | CLAMP SPLIT FLANGE SS 1-1/2"SAE 3000 / (PAIR)                            | 1          | E4C        |

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| . . 43              |            | . . AA3171   | UNION TEE 3/8" TUBE / SWAGELOK SS-600-3                               | 5          | D7E        |
| . . 44              |            | . . AA3089   | TUBE 3/4" x 0.083wt SEAMLESS SS / (6mtr LENGTH)                       | 4          | PIPE       |
|                     |            |              |                                                                       |            | RACK       |
| . . 45              |            | . . AA3087   | TUBE 3/8" x 0.049WT SEAMLESS SS / (6mtr LENGTH )                      | 2          | PIPE       |
|                     |            |              |                                                                       |            | RACK       |
| . . 46              |            | . . AA3088   | TUBE 1/2" x 0.065WT SEAMLESS SS / (6mtr LENGTH)                       | 2          | PIPE       |
|                     |            |              |                                                                       |            | RACK       |
| . . 47              |            | . . AA6606   | CONNECTOR MALE 7/16" UNF - 1/4" TUBE / SWAGELOK<br>SS-400-1-4ST       | 7          | D8D        |
| . . 48              |            | . . AB7153   | HOSE THRUSTER LINK                                                    | 10         |            |
| . . 49              |            | . . AB8224   | FITTING MFA M27(2.0) x 3/4"UNF SS / (CAPTIVE SEAL)                    | 1          |            |
| . . 50              |            | . . AA3094   | PUSH-LOK HOSE 3/8" / 831-6 (GREEN)                                    | 10         | L12F/E     |
| . . 52              |            | . . AA3165   | CONNECTOR MALE 3/8" TUBE 7/16" 20 UNF /<br>SWAGELOK SS-600-1-4ST      | 27         | D11E       |
| . . 53              |            | . . AA3194   | CONNECTOR MALE 3/8"BSP - 3/8" TUBE / SWAGELOK<br>SS-600-1-6RS         | 4          | D7C        |
| . . 56              |            | . . AA8950   | ELBOW POSITIONAL 9/16"UNF / 3/8" TUBE SWAGELOK<br>SS-600-2-6ST        | 6          | D8C        |
| . . 57              |            | . . PK2611   | FITTING MMA 7/16" UNF x 7/16" JIC SS                                  | 2          | D12E       |
| . . 58              |            | . . AA0405   | FITTING MMA 7/16"UNF x 9/16"JIC SS                                    | 2          | D9F        |
| . . 59              |            | . . PC7877   | FITTING MMA / 9/16"JIC X 3/8"BSP CONE SS                              | 2          | D10E       |
| . . 61              |            | . . AA3148   | CONNECTOR MALE 1/4" NPT 3/8" TUBE / SWAGELOK<br>SS-600-1-4            | 0          | D8B        |
| . . 62              |            | . . PJ8683   | ASSEMBLY 1-1/4" SAE 6000 1/2 CLAMPS SS                                | 2          |            |
| . . . 1             |            | . . . PH5506 | CLAMP SPLIT FLANGE SS 1-1/4"SAE 6000 / (PAIR)                         | 2          | E3A        |
| . . . 2             |            | . . . PB2184 | SEAL O-RING BS222 NBR90 1-1/4"SAE / (37.69 X 3.53)                    | 2          | M6D        |
| . . . 3             |            | . . . PC1991 | BOLT M14 x 45 SHCS SS A4-80                                           | 8          | N9A        |
| . . . 4             |            | . . . PB7302 | WASHER M14 SPRING SS                                                  | 8          | N9A        |
| . . 63              |            | . . PJ4360   | FITTING MMA M14(1.5) X 7/16" JIC SS                                   | 0          | D8F        |
| . . 64              |            | . . PE9676   | FITTING MMA / 3/4"UNF X 1/2"BSP CONE SS                               | 1          |            |
| . . 65              |            | . . PF4731   | FITTING MMA / 9/16"UNF X 3/8 BSP CONE SS                              | 1          |            |
| . . 66              |            | . . AB7097   | COUPLING Q/R PROBE 1/2" FASTER                                        | 4          | D9E        |
| . . 67              |            | . . AB7096   | COUPLING Q/R CARRIER 1/2" FASTER                                      | 4          | D5D        |
| . . 68              |            | . . AB8437   | COUPLING Q/R PROBE 3/8" FASTER / 2FFIQPF06SS                          | 2          | D10D       |
| . . 69              |            | . . AB8438   | COUPLING Q/R CARRIER 3/8" FASTER / 2FFIQCF06SS                        | 2          | D10D       |
| . . 70              |            | . . AB8230   | FITTING MFA 1-5/16"UNF x 3/4"UNF SS                                   | 1          | D10C       |
| . . 71              |            | . . AB5415   | CONNECTOR MALE 1/2"BSP x 3/4" TUBE / SWAGELOK<br>SS-1210-1-8RS        | 2          | D8E        |
| . . 72              |            | . . PC7330   | FITTING MMA 3/4"JIC x 1/2"BSP CONE SS                                 | 2          | D12G       |
| . . 73              |            | . . AB7172   | 3/4" UNION / [SS-1210-6]                                              | 10         | D8C        |
| . . 74              |            | . . AB3710   | ADAPTOR MALE 9/16"UNF x 1/2" STANDPIPE / SS<br>SWAGELOK SS-8-TA-1-6ST | 1          |            |
| . . 75              |            | . . AA3179   | REDUCER 1/2" STANDPIPE x 3/8" TUBE / SWAGELOK<br>SS-600-R-8           | 1          | D8F        |
| . . 76              |            | . . OF 8105  | 1/2" SW CROSS / SS-810-4                                              | 1          | D9C        |
| . . 78              |            | . . PB5944   | FITTING PLUG 1/4"NPT HEX SS                                           | 6          | D11F       |
| . . 79              |            | . . PD8370   | VALVE RELIEF 15psi (1/4"NPT)                                          | 9          | D6F        |
| . . 80              |            | . . PJ8992   | ASSEMBLY 2-1/2" SAE 3000 SPLIT CLAMPS SS                              | 2          |            |
| . . . 1             |            | . . . PA0024 | WASHER M12 SPRING SS                                                  | 8          | DUCT       |
| . . . 2             |            | . . . PA4777 | BOLT M12 x 40 SHCS SS A4 - 80                                         | 8          | DUCT       |
| . . . 3             |            | . . . PB5322 | SEAL O-RING BS232 NBR90 2-1/2"SAE / (69.44 X 3.53)                    | 2          | OR 4B      |
| . . . 4             |            | . . . PJ6102 | CLAMP SPLIT FLANGE SS 2-1/2"SAE 3000 / (PAIR)                         | 2          | E4C        |
| . . 81              |            | . . AB8238   | ASSEMBLY DECK CONNECTION PRESSURE / NON-BSP                           | 1          |            |
| . . . 1             |            | . . . WA3125 | SEAL O-RING BS910 (19.18 x 2.46) 7/8"UNF                              | 1          | OR 7D      |
| . . . 2             |            | . . . AB8259 | ADAPTOR MALE 7/8"UNF x 5/8" STANDPIPE / SWAGELOK<br>SS-10-TA-1-10ST   | 1          |            |
| . . . 3             |            | . . . AB8260 | UNION ELBOW 5/8" / SWAGELOK SS-1010-9                                 | 1          |            |
| . . . 4             |            | . . . AB8440 | REDUCER 1/2" TUBE x 5/8" STANDPIPE / SWAGELOK<br>SS-810-R-10          | 1          |            |
| . . . 5             |            | . . . AA3236 | ADAPTOR MALE 1/2" BSPP 1/2" STANDPIPE /<br>SWAGELOK SS-8-TA-1-8RS     | 1          | D7F        |
| . . . 6             |            | . . . AB7096 | COUPLING Q/R CARRIER 1/2" FASTER                                      | 1          | D5D        |
| . . . 7             |            | . . . AB7097 | COUPLING Q/R PROBE 1/2" FASTER                                        | 1          | D9E        |
| . . . 8             |            | . . . PC7330 | FITTING MMA 3/4"JIC x 1/2"BSP CONE SS                                 | 1          | D12G       |
| . . . 9             |            | . . . WA1079 | SEAL BONDED SS 1/2"BSP                                                | 2          | N12G       |
| . . . 10            |            | . . . AA2179 | FITTING CAP 3/4"JIC SS                                                | 1          | D7F        |
| . . 82              |            | . . AB2592   | ASSEMBLY PUMP OUTLET MANIFOLD                                         | 1          |            |
| . . . 1             |            | . . . AB2632 | MANIFOLD PUMP OUTLET                                                  | 1          | R2F        |
| . . . 2             |            | . . . PB2373 | VALVE CXHA-XAN/V CHECK                                                | 1          | D1A        |
| . . . 3             |            | . . . PB2184 | SEAL O-RING BS222 NBR90 1-1/4"SAE / (37.69 X 3.53)                    | 1          | M6D        |
| . . . 4             |            | . . . PC1217 | TEST POINT 1/8" SS BSP STAUFF / SMK20G1/8PCSS                         | 1          | D6E        |
| . . . 5             |            | . . . AA6802 | BOLT M14 x 90 SHCS SS A4                                              | 4          | N9B        |
| . . . 6             |            | . . . PB7302 | WASHER M14 SPRING SS                                                  | 4          | N9A        |

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| . . . 7             |            | . . . AA1124       | LABEL VEHICLE PRESSURE                                            | 1          | G13F          |
| . . . 83            |            | . . . WA3139       | SEAL BONDED SS M14                                                | 0          | N13B          |
| . . . 84            |            | . . . PD9044       | SEAL O-RING BS916 (29.74 x 2.95) / 1-5/16"UNF                     | 5          | OR 7E         |
| . . . 86            |            | . . . AB8227       | ADAPTOR MALE 1/2" STANDPIPE x 3/4"UNF / SWAGELOK<br>SS-8-TA-1-8ST | 2          |               |
| . . . 87            |            | . . . AA3188       | UNION ELBOW 1/2" / SWAGELOK SS-810-9                              | 2          | D7F           |
| . . . 88            |            | . . . AB8232       | HOSE ASSY PRESSURE PUMP - FILTER                                  | 1          | HOS 1/2A      |
| . . . 89            |            | . . . AB8233       | HOSE ASSY RETURN FILTER - RESERVOIR                               | 1          | HOS1/2A       |
| . . . 90            |            | . . . AB8234       | ADAPTOR 1-1/4"SAE 6000 x 1-5/16"UNF SS                            | 1          |               |
| . . . 91            |            | . . . AB0698       | HOSE ASSY MAIN PUMP CONTROL                                       | 1          | HOS 2B        |
| . . . 93            |            | . . . AB7074       | ASSEMBLY SUCTION FOR 140CC PUMP                                   | 1          |               |
| . . . 1             |            | . . . AB7161       | SUCTION HOSE INSERT 140CC PUMP / 2-1/2" SAE 3K                    | 1          |               |
| . . . 2             |            | . . . AB7286       | SUCTION HOSE INSERT 2-1/2" SAE 3K                                 | 1          |               |
| . . . 3             |            | . . . AB7357       | HOSE AUSTRALIA 3" / WORKING PRESSURE 150 P.S.I.                   | 1          | BAY 2L        |
| . . . 4             |            | . . . PF9112       | CLAMP HOSE 3" HYDRASUN SC75X75 SS                                 | 2          | E11C          |
| . . . 94            |            | . . . PK3432       | FITTING MFA 3/8" BSP x 1/4" NPT SS                                | 1          | D9C           |
| . . . 95            |            | . . . AA7821       | ADAPTOR MALE 3/8"STANDPIPE x 9/16"UNF /<br>SWAGELOK SS-6-TA-1-6ST | 7          | D10E          |
| . . . 98            |            | . . . AB7904       | FITTING MFA 7/8"UNF x 1/4"NPT SS                                  | 1          | D12E          |
| . . . 100           |            | . . . AB8250       | FLOW CONTROL/FREE-FLOW CHECK VALVE / 1/4" NPT<br>SS               | 0          | D6C           |
| . . . 101           |            | . . . AB8251       | NIPPLE QUICK-CONNECT 3/8" / SWAGELOK<br>SS-QC6-D-600              | 18         | D8B           |
| . . . 102           |            | . . . AB8252       | COUPLER QUICK-CONNECT 3/8" / SWAGELOK<br>SS-QC6-B-600             | 24         | D8B           |
| . . . 103           |            | . . . AA3214       | PLUG 3/8" SWAGELOK SS-600-P                                       | 30         | D7B           |
| . . . 104           |            | . . . AB8256       | NIPPLE QUICK-CONNECT 3/8" BULKHEAD / SWAGELOK<br>SS-QC6-D1-600    | 17         | D11C          |
| . . . 105           |            | . . . AB8257       | COUPLER QUICK-CONNECT 3/8" BULKHEAD /<br>SWAGELOK SS-QC6-B1-600   | 11         | SHOP<br>FLOOR |
| . . . 106           |            | . . . AA3157       | ADAPTOR MALE 1/4" NPT 3/8" STANDPIPE / SWAGELOK<br>SS-6-TA-1-4    | 0          | D8F           |
| . . . 107           |            | . . . OF 2025      | CAP 6 JIC, S/S / 6 JIC                                            | 2          | D9D           |
| . . . 108           |            | . . . AA2179       | FITTING CAP 3/4"JIC SS                                            | 3          | D7F           |
| . . . 110           |            | . . . AA3236       | ADAPTOR MALE 1/2" BSPP 1/2" STANDPIPE /<br>SWAGELOK SS-8-TA-1-8RS | 1          | D7F           |
| . . . 111           |            | . . . AB7903       | MANIFOLD COMPENSATOR / SAE PORTS                                  | 1          | R1F           |
| . . . 119           |            | . . . AA5071       | FITTING MFA 1/4" BSPP x 1/4" NPT SS                               | 1          | D10F          |
| . . . 120           |            | . . . AA9856       | ADAPTOR M6-1/4" STANDPIPE SS                                      | 4          | F10F          |
| . . . 121           |            | . . . OR 1211      | O RING / BS 009 (5.28 x 1.78)                                     | 4          | OR 8A         |
| . . . 124           |            | . . . AA3197       | ADAPTOR MALE 1/8" NPT x 1/4" STANDPIPE /<br>SWAGELOK SS-4-TA-1-2  | 0          | D7C           |
| . . . 125           |            | . . . AA3208       | REDUCER 1/2" TUBE x 3/8" STANDPIPE / SWAGELOK<br>SS-810-R-6       | 2          | D7F           |
| . . . 126           |            | . . . AB8670       | CLAMP STAUFF 3/8"OD LIGHT SERIES / LNG-PP Gr.2                    | 36         |               |
| . . . 130           |            | . . . AA3237       | ELBOW UNION 3/4" / SWAGELOK SS-1210-9                             | 6          | D7B           |
| . . . 131           |            | . . . AB8908       | CLAMP BODY (2 HALVES) 319 PP / 19MM BORE                          | 20         | E5G           |
| . . . 132           |            | . . . OF 5204      | REDUCER 1/2" - 3/8" SS / SWAGELOCK to SWAGELOCK                   | 1          | D9D           |
| . . . 133           |            | . . . AB9107       | HOSE THRUSTER LINK 550mm / 1/2" EUROPULSE                         | 4          |               |
| . . . 134           |            | . . . AA3207       | PLUG 1/2" SS-810-P / SWAGELOK                                     | 2          | D7F           |
| . . . 135           |            | . . . AB9111       | PORT CONNECTOR 3/4" / SWAGELOK SS-1211-PC                         | 1          |               |
| . . . 2             |            | . . . HTE 380BA-45 | THRUSTER CURVETECH 380mm, 45cc BA motor / STD                     | 7          | CONW          |
| . . . 1             |            | . . . DV 3820      | KORT NOZZLE ASSEMBLY HTE 380                                      | 7          |               |
| . . . 1             |            | . . . OV 3138      | KORT NOZZLE HTE 380                                               | 7          | CONW          |
| . . . 2             |            | . . . OV 1110      | THREAD INSERT HT230/300/380                                       | 28         | K2D           |
| . . . 2             |            | . . . DV 3821      | PEDESTAL / BEARING HOUSING ASSY HTE 380                           | 7          | M13B          |
| . . . 1             |            | . . . OV 3137      | PEDESTAL HTE 380                                                  | 7          | K5A-G         |
| . . . 2             |            | . . . KT 3001-2    | SEAL KIT, HT300/380, HI-PERF                                      | 7          | K8C           |
| . . . 13            |            | . . . OV 3024      | O RING HT 300/380 NITRILE / 60mm                                  | 7          | K1E           |
| . . . 61            |            | . . . OV 3036      | LIP SEAL, HT 300/380                                              | 7          | K2E           |
| . . . 62            |            | . . . OV 3037      | PTFE SEAL HT 300/380                                              | 7          | K2D           |
| . . . 63            |            | . . . PK0219       | SEAL O-RING 80.6 x 2.62 / (SOR-262-0806-N70)                      | 7          | OR 18A        |
| . . . 64            |            | . . . OV 3023      | O RING SEAL HT 300 NITRILE / 82mm                                 | 7          | K1E           |
| . . . 3             |            | . . . OV 3008      | Seal Retainer HT 300/380                                          | 7          | K2C           |
| . . . 4             |            | . . . OV 3015      | Thrust Needle Bearing HT 300/380 / 35 x 52 x 32                   | 7          | E1A           |
| . . . 5             |            | . . . OV 3016      | Needle Bearing HT 300/380 / 40 x 52 x 20                          | 7          | E1C           |
| . . . 6             |            | . . . PC0228       | BOLT M5 x 20 SHCS SS                                              | 28         | DUCT          |
| . . . 7             |            | . . . PA9746       | WASHER M5 SPRING SS                                               | 28         | N5C           |
| . . . 8             |            | . . . DV 3823      | SHAFT ASSEMBLY HTE 380 / 300                                      | 7          |               |
| . . . 1             |            | . . . OV 3139      | SHAFT HTE 380                                                     | 7          | K1A           |
| . . . 2             |            | . . . OV 3017      | BEARING INNER RING HT300/380 SS / IR 35 x 40 x 20                 | 14         | E1B           |
| . . . 3             |            | . . . OV 3115      | INNER BEARING HT 300/380-23/32REX / 45 x 50 x 25                  | 7          | E2D           |
| . . . 4             |            | . . . OV 3006-2    | Shaft Seal Ring HT 300/380 / HT 300/380                           | 7          | E1C           |

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| <u>Eng.<br/>No.</u> | <u>Ref</u> | <u>Part</u> | <u>Description / Size</u> | <u>Qty</u> | <u>Bin</u> |
|---------------------|------------|-------------|---------------------------|------------|------------|
| ...                 | 9          | ...         | OV 3140                   | 7          | F8A        |
| ...                 | 10         | ...         | OV 3141                   | 7          | F8A        |
| ...                 | 11         | ...         | PC8485                    | 7          | DUCT       |
| ...                 | 12         | ...         | OB 1516                   | 14         | N6F        |
| ...                 | 13         | ...         | OR 1211                   | 28         | OR 8A      |
| ...                 | 14         | ...         | OV 3116                   | 7          | E2B        |
| ...                 | 15         | ...         | AB0882                    | 7          | N5C        |
| ...                 | 16         | ...         | OF 2009                   | 7          | D9D        |
| ...                 | 3          | ...         | DV 3822                   | 7          |            |
| ...                 | 1          | ...         | OV 3019                   | 7          | K2F        |
| ...                 | 2          | ...         | OV 3142                   | 7          | CON W      |
| ...                 | 4          | ...         | ON 1015                   | 7          | N10D       |
| ...                 | 5          | ...         | OW 1018                   | 7          | N10G       |
| ...                 | 6          | ...         | OV 3007                   | 7          | K1D+G      |
| ...                 | 7          | ...         | PC9412                    | 7          | DUCT       |
| ...                 | 8          | ...         | PA9746                    | 7          | N5C        |
| ...                 | 9          | ...         | DV 3018                   | 7          |            |
| ...                 | 1          | ...         | OV 3145                   | 7          | J5A-F      |
| ...                 | 2          | ...         | PB9185                    | 28         | DUCT       |
| ...                 | 3          | ...         | PA4860                    | 28         | DUCT       |
| ...                 | 4          | ...         | OW 1058                   | 28         | N8F        |
| ...                 | 10         | ...         | PB9764                    | 28         | DUCT       |
| ...                 | 11         | ...         | PA4794                    | 28         | DUCT       |
| ...                 | 3          | ...         | AB4013                    | 1          |            |
| ...                 | 1          | ...         | AB6670                    | 1          |            |
| ...                 | 2          | ...         | AA1557                    | 1          |            |
| ...                 | 1          | ...         | AA1990                    | 1          | R1F        |
| ...                 | 2          | ...         | AB0664                    | 1          | D3D        |
| ...                 | 5          | ...         | PF7556                    | 1          | D2F        |
| ...                 | 6          | ...         | PC2212                    | 2          | OR 1C      |
| ...                 | 7          | ...         | PC8773                    | 1          | OR 10A     |
| ...                 | 8          | ...         | PC1130                    | 2          | N13E       |
| ...                 | 9          | ...         | PJ8945                    | 1          | D12F       |
| ...                 | 12         | ...         | PE4150                    | 4          | N6H        |
| ...                 | 13         | ...         | LB 0100                   | 4          |            |
| ...                 | 3          | ...         | PD5648                    | 4          | N13F       |
| ...                 | 5          | ...         | PD5642                    | 4          | N13F       |
| ...                 | 6          | ...         | AB3743                    | 8          | D2A        |
| ...                 | 7          | ...         | AB5201                    | 32         | N5E        |
| ...                 | 9          | ...         | PB9808                    | 4          | N6C        |
| ...                 | 10         | ...         | PD5645                    | 27         | N13F       |
| ...                 | 11         | ...         | PD5646                    | 32         | N13F       |
| ...                 | 12         | ...         | PB9764                    | 59         | DUCT       |
| ...                 | 13         | ...         | PD5650                    | 4          | N13F       |
| ...                 | 14         | ...         | PD5639                    | 4          | N13F       |
| ...                 | 15         | ...         | OW 1028                   | 1          | N13B       |
| ...                 | 16         | ...         | PB9268                    | 4          | DUCT       |
| ...                 | 17         | ...         | PD3852                    | 1          | D6E        |
| ...                 | 19         | ...         | AA0795                    | 1          | C5F/G      |
| ...                 | 20         | ...         | OV 1070-2                 | 8          | M12F       |
| ...                 | 21         | ...         | AB0017                    | 1          | G5D        |
| ...                 | 22         | ...         | AB4014                    | 0          |            |
| ...                 | 23         | ...         | AA1582                    | 4          | F1F        |
| ...                 | 24         | ...         | PK4444                    | 1          | D6E        |
| ...                 | 25         | ...         | PJ8945                    | 17         | D12F       |
| ...                 | 26         | ...         | AB6665                    | 3          |            |
| ...                 | 27         | ...         | PB9936                    | 3          | OR 1E      |
| ...                 | 28         | ...         | PA4892                    | 4          | DUCT       |
| ...                 | 29         | ...         | PB5023                    | 4          | DUCT       |
| ...                 | 31         | ...         | PA9746                    | 4          | N5C        |
| ...                 | 32         | ...         | PA0546                    | 27         | DUCT       |
| ...                 | 33         | ...         | AA1643                    | 2          | G12E       |
| ...                 | 34         | ...         | OR 1040                   | 3          | ELECT.     |
| ...                 | 35         | ...         | AA9979                    | 1          | CLEAN RM   |
| ...                 | 36         | ...         | AA9991                    | 1          | C3E        |
| ...                 | 37         | ...         | AA9992                    | 1          | G4G        |
| ...                 | 38         | ...         | AA9990                    | 1          | G10D       |
| ...                 | 39         | ...         | PA5735                    | 1          | G7D        |
| ...                 |            | ...         |                           | 27         | N6B        |

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|---------------------|------------|--------------|---------------------------------------------------------------|------------|------------|
| . . 40              |            | . . PA9812   | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)              | 27         | OR 1A      |
| . . 41              |            | . . PB7876   | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773                         | 1          | B4F        |
| . . 42              |            | . . PB7878   | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK                    | 1          | B4F        |
| . . 45              |            | . . AB7521   | ASSEMBLY HARNESES - TCU - MBARI                               | 1          |            |
| . . . 1             |            | . . . AB6437 | HARNESS RESERVOIR MOISTURE - MBARI                            | 1          |            |
| . . . 2             |            | . . . AB6859 | HARNESS COMPS - MBARI                                         | 1          |            |
| . . . 3             |            | . . . AB6310 | HARNESS POWER/SIG TCU/HCU - MBARI                             | 1          |            |
| . . . 4             |            | . . . AB8158 | GLAND PACKING DORN / SIZE 2                                   | 2          | B1G        |
| . . . 5             |            | . . . AB8157 | GLAND PACKING DORN / SIZE 2                                   | 1          |            |
| . . 46              |            | . . OC 9301  | TEMPERATURE PROBE PT100                                       | 1          | A1D        |
| . . 47              |            | . . DI 3412  | TEMPERATURE WELL                                              | 1          | F12F       |
| . . 48              |            | . . AB7887   | GLAND CAP DORN / SIZE 2                                       | 3          | B1G        |
| . . 49              |            | . . AB7888   | GLAND PLUG DORN / SIZE 2                                      | 3          | B1G        |
| . . 50              |            | . . AB0868   | CIRCUIT PCB BOARD PSU 24 - +12/-12,5                          | 1          | C6E        |
| . . 51              |            | . . AB8151   | GLAND CAP DORN / SIZE 4                                       | 1          |            |
| . 4                 |            | . AB4015     | ASSEMBLY 12-STATION HCU / MBARI                               | 1          |            |
| . . 1               |            | . . AB5392   | MANIFOLD 12-STATION HCU (PROP PRESS) / MINI 3                 | 1          |            |
| . . 2               |            | . . AA5061   | VALVE PROPORTIONAL DIRECTIONAL NG3-MINI / c/w<br>FLYING LEADS | 4          | D3C        |
| . . 3               |            | . . AA5063   | VALVE P/O CHECK & THERMAL RELIEF / MINI 3 210BAR              | 8          | D3A        |
| . . 4               |            | . . AB6842   | VALVE PROP PRESSURE REDUCING T-11A                            | 1          |            |
| . . 5               |            | . . AB6843   | VALVE DIRECTIONAL SOLENOID T-9A 3-WAY                         | 1          |            |
| . . 6               |            | . . AA0439   | PCB MULTI-FUNCTION VALVE CONTROLLER / ISSUE<br>LEVEL D        | 1          | C5D/E      |
| . . 7               |            | . . AA1583   | STANDOFF HCU PCB                                              | 4          | F4F        |
| . . 8               |            | . . AA1581   | PLATE PCB MOUNT HCU                                           | 1          | G6F        |
| . . 9               |            | . . PD5645   | INSERT HELICOIL M6 x 1.5D SS                                  | 22         | N13F       |
| . . 10              |            | . . PD5642   | INSERT HELICOIL M8 x 1.5D SS                                  | 4          | N13F       |
| . . 11              |            | . . PD3852   | TEST POINT SS 1/4" BSP SMK2004/4PCSS / STAUFF                 | 1          | D6E        |
| . . 12              |            | . . PD8585   | BOLT M3 x 12 PAN HD SS                                        | 4          | N4D        |
| . . 13              |            | . . PK4444   | SENSOR PRESS 0-400 BAR 4-20mA H/DUTY / 2 WIRE                 | 1          | D6E        |
| . . 14              |            | . . PD0360   | BLANK KOENIG 6MM SS / MB 600-060                              | 4          | N13E       |
| . . 15              |            | . . PJ8944   | FITTING PLUG 1/8"BSP VSR SS                                   | 1          | D12F       |
| . . 16              |            | . . AB6866   | SOLENOID 24V TWIN LEAD                                        | 1          |            |
| . . 17              |            | . . AB6665   | ADAPTOR DORN FITTING (SIZE 2)                                 | 6          |            |
| . . 18              |            | . . PD5650   | INSERT HELICOIL M4 x 2D SS                                    | 36         | N13F       |
| . . 19              |            | . . PB9936   | SEAL O-RING BS019 (20.35 X 1.78)                              | 6          | OR 1E      |
| . . 20              |            | . . ON 1047  | STEP NUT M4 x 10                                              | 24         | N5A        |
| . . 21              |            | . . PB8758   | WASHER M3 SPRING SS                                           | 4          | DUCT       |
| . . 22              |            | . . OB 1240  | STUD BOLT M4 x 73                                             | 24         | N4F        |
| . . 23              |            | . . PE4415   | BOLT M5 x 35 SHCS A4 SS                                       | 12         | DUCT       |
| . . 24              |            | . . PA9746   | WASHER M5 SPRING SS                                           | 16         | N5C        |
| . . 25              |            | . . PD5648   | INSERT HELICOIL M5 x 1.5D SS                                  | 4          | N13F       |
| . . 26              |            | . . AA5059   | VALVE DIR MINI 3 24V FLYING LEADS                             | 8          | D3C        |
| . . 27              |            | . . PB5023   | BOLT M5 x 25 SHCS SS                                          | 4          | DUCT       |
| . . 28              |            | . . PC1130   | BLANK KOENIG 5MM SS / MB 600-050                              | 14         | N13E       |
| . . 29              |            | . . PH3687   | BOLT M6 x 140 SHCS SS / M6 x 140                              | 22         | M4B        |
| . . 30              |            | . . AA1643   | PLATE CURVETECH LOGO 5MM YELLOW                               | 2          | G12E       |
| . . 31              |            | . . OR 1040  | O RING CORD 3mm                                               | 3          | ELECT.     |
|                     |            |              | CLEAN RM                                                      |            |            |
| . . 32              |            | . . PA0546   | WASHER M6 FLAT SS                                             | 22         | DUCT       |
| . . 33              |            | . . PB9764   | WASHER M6 SPRING SS                                           | 22         | DUCT       |
| . . 34              |            | . . PC1765   | BOLT M5 x 25 PAN HEAD SS / M5 x 25                            | 4          | N5C        |
| . . 35              |            | . . AB4016   | DRAWING ELECTRICAL WIRING 12ST HCU                            | 0          |            |
| . . 36              |            | . . AA5177   | COVER 12-STATION HCU                                          | 1          | G6F        |
| . . 37              |            | . . AB6875   | HOUSING 12-STATION HCU                                        | 1          |            |
| . . 38              |            | . . AA5179   | CLAMP 12-STATION HCU                                          | 1          | L9F        |
| . . 39              |            | . . PA9812   | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)              | 22         | OR 1A      |
| . . 40              |            | . . PA4892   | WASHER M5 FLAT SS                                             | 4          | DUCT       |
| . . 44              |            | . . PB7876   | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773                         | 3          | B4F        |
| . . 45              |            | . . PB7878   | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK                    | 3          | B4F        |
| . . 46              |            | . . AB7618   | VALVE SUN PILOT STAGE RELIEF                                  | 1          |            |
| . . 47              |            | . . AA4251   | SOLENOID SUN / 24V FLYING LEADS                               | 1          |            |
| . . 48              |            | . . AB7522   | ASSEMBLY HARNESES - HCU - MBARI                               | 1          |            |
| . . . 1             |            | . . . AB6859 | HARNESS COMPS - MBARI                                         | 4          |            |
| . . . 2             |            | . . . AB6310 | HARNESS POWER/SIG TCU/HCU - MBARI                             | 1          |            |
| . . . 3             |            | . . . AB6860 | HARNESS MOTOR TEMP/MOIST - MBARI                              | 1          |            |
| . . . 4             |            | . . . AB8158 | GLAND PACKING DORN / SIZE 2                                   | 5          | B1G        |
| . . . 5             |            | . . . AB8157 | GLAND PACKING DORN / SIZE 2                                   | 1          |            |
| . . 49              |            | . . AB7887   | GLAND CAP DORN / SIZE 2                                       | 6          | B1G        |
| . . 50              |            | . . AB7888   | GLAND PLUG DORN / SIZE 2                                      | 6          | B1G        |
| . . 51              |            | . . AB8151   | GLAND CAP DORN / SIZE 4                                       | 1          |            |

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|---------------------------|------------|-----------------------|------------------------------------------------------------------------|------------|------------|
| . 5                       |            | . AB4235              | ASSEMBLY FILTER PRESSURE / 1-1/4"SAE 6K / 7 MICRON / 4.5 BAR BYPASS    | 1          |            |
| . . 1                     |            | . . AB7147            | FILTER HOUSING ULTIPLEAT HEAD SERVICE / 1-1/4" SAE 6K PORTS (PRESSURE) | 1          | E6A        |
| . . 2                     |            | . . AA0278            | FILTER ELEMENT 7 MICRON - 8" LENGTH                                    | 1          | E6F        |
| . . 3                     |            | . . AA2383            | FILTER INDICATOR UPSTREAM SAMPLER                                      | 1          | E6F        |
| . 6                       |            | . AB4236              | ASSEMBLY FILTER RETURN / 1-1/4"SAE J514 / 7 MICR / 4.5 BAR BYPASS      | 1          |            |
| . . 1                     |            | . . AB7148            | FILTER HOUSING ULTIPLEAT HEAD SERVICE / 1-1/4" SAE J514 PORTS (RETURN) | 1          |            |
| . . 2                     |            | . . AA0278            | FILTER ELEMENT 7 MICRON - 8" LENGTH                                    | 1          | E6F        |
| . . 3                     |            | . . AA0282            | FILTER SAMPLING BLOCK                                                  | 1          | E6F        |
| . 7                       |            | . AB4081              | ASSEMBLY ROV HPU 75HP                                                  | 1          |            |
| . . 1                     |            | . . AB4079            | ASSEMBLY MOTOR 75HP 3.3kV 4P 60HZ                                      | 1          |            |
| . . . 1                   |            | . . . DI 3700/55-4-33 | STATOR/ROTOR ASSY 75HP, 55KW / 4P 60HZ 3.3kV                           | 1          |            |
| . . . 2                   |            | . . . DI 3715         | HPU BLANK END HOUSING                                                  | 1          | M4F        |
| . . . 3                   |            | . . . DI 3701         | HPU END HOUSING                                                        | 1          | M5E/G      |
| . . . 5                   |            | . . . DI 3704         | HOUSING LOCATION KEY A4 SS                                             | 2          | F12F       |
| . . . 6                   |            | . . . DI 3794         | MOTOR HOUSING 75HP                                                     | 1          |            |
| . . . 7                   |            | . . . DI 3795         | HPU TENSION ROD                                                        | 4          | L7E        |
| . . . 8                   |            | . . . OC 9313         | DEEP GROOVE BALL BEARING                                               | 2          | E1F        |
| . . . 9                   |            | . . . OB 1011         | BOLT M12 x 60 SHCS SS A4                                               | 4          | N8B        |
| . . . 10                  |            | . . . PA5724          | BOLT M10 x 30 SHCS SS A4-80                                            | 16         | DUCT       |
| . . . 12                  |            | . . . PB8110          | NUT M12 NYLOC SS                                                       | 12         | DUCT       |
| . . . 13                  |            | . . . WA0246          | FITTING PLUG 1" BSP HEX SS                                             | 2          | D10A       |
| . . . 14                  |            | . . . PA4892          | WASHER M5 FLAT SS                                                      | 4          | DUCT       |
| . . . 15                  |            | . . . PA4860          | WASHER M12 FLAT SS                                                     | 16         | DUCT       |
| . . . 16                  |            | . . . OB 1209         | BOLT M5 x 12 CSK SKT HEAD SS A2 / M5 x 12                              | 2          | N5C        |
| . . . 17                  |            | . . . OF 2011         | PLUG, 3/8" BSPP SS                                                     | 6          | D9B        |
| . . . 18                  |            | . . . OW 1006         | BONDED SEAL, 3/8" BSP SS                                               | 6          | N13A       |
| . . . 19                  |            | . . . OC 9312         | M12 EYE BOLT 0.4 TONNES (AXIAL) / M12 RATED TO 0.4 TONNES (AXIAL)      | 4          | E11A       |
| . . . 20                  |            | . . . WA3357          | BOLT M3 x 10 SHCS SS                                                   | 12         | DUCT       |
| . . . 21                  |            | . . . PA4812          | WASHER M3 FLAT SS                                                      | 12         | DUCT       |
| . . . 22                  |            | . . . PB8758          | WASHER M3 SPRING SS                                                    | 12         | DUCT       |
| . . . 23                  |            | . . . OR 1016         | O RING BS014                                                           | 1          | OR 1D      |
| . . . 24                  |            | . . . DI 3707         | HPU MOTOR END CAP                                                      | 2          | F11A       |
| . . . 25                  |            | . . . OC 9314         | CIRCLIP.EXTERNAL.55 MM DIA. / 55MM DIA                                 | 2          | N12E       |
| . . . 26                  |            | . . . OC 9315         | CIRCLIP.INTERNAL.100 MM DIA.                                           | 1          | N12F       |
| . . . 27                  |            | . . . OR 1044         | O RING 378                                                             | 2          | M6E        |
| . . . 28                  |            | . . . OR 1045         | O RING 354                                                             | 2          | OR 5F      |
| . . . 30                  |            | . . . DI 3128         | BLANKING PLUG 7/16 THREAD 3/4 A/F SS                                   | 1          | D9E        |
| . . . 31                  |            | . . . OC 9316         | HPU WARNING LABEL                                                      | 2          | G12E       |
| . . . 32                  |            | . . . OC 9317         | HPU IDENTIFICATION LABEL                                               | 1          | G13D       |
| . . . 33                  |            | . . . PA0051          | WASHER M10 SPRING SS                                                   | 16         | DUCT       |
| . . . 36                  |            | . . . PB9268          | WASHER M8 SPRING SS                                                    | 4          | DUCT       |
| . . . 39                  |            | . . . WA0350          | WASHER M4 FLAT SS                                                      | 4          | DUCT       |
| . . . 41                  |            | . . . OC 9332         | TERMINAL STRIP 2-WAY PIECE                                             | 1          | A3D        |
| . . . 42                  |            | . . . OC 9333         | TERMINAL END FIXING                                                    | 2          | A3D        |
| . . . 43                  |            | . . . OC 9334         | TERMINAL STRIP JOINT 1 x 10                                            | 1          | A3D        |
| . . . 44                  |            | . . . PJ0879          | CONNECTOR MCBH-4-MP SS / IMPULSE                                       | 1          | B7C        |
| . . . 45                  |            | . . . AB0614          | PENETRATOR WATER BLOCKED / 3000VAC 50AMP                               | 1          |            |
| . . . . 1                 |            | . . . . DI 3851       | WATER BLOCK SS                                                         | 1          | F3D        |
| . . . . 2                 |            | . . . . OC 9212       | CIRCLIP D2000 - 0350 / 0350                                            | 1          | N12F       |
| . . . . 3                 |            | . . . . OR150225      | O RING 50-225 NITRILE PB 80                                            | 1          | OR 3F      |
| . . . . 4                 |            | . . . . PB5189        | SEAL O-RING BS028 HRS308 PISTON / (34.65 X 1.78)                       | 1          | OR 2A      |
| . . . . 5                 |            | . . . . OV 4692       | WATER BLOCK CONNECTOR FEMALE / 3000VAC 50 AMPS                         | 1          | KC 5D      |
| . . . . 6                 |            | . . . . OV 4693       | WATER BLOCK CONNECTOR MALE / 3000VAC 50 AMPS                           | 1          | KC 5D      |
| . . . . 7                 |            | . . . . OC 9141       | TYGON TUBING, 1 1/2"ID                                                 | 3          | BAY 2J     |
| . . . . 8                 |            | . . . . WA3079        | CLIP JUBILEE 34-57mm SS / PARKER - SS2800N                             | 2          | H4D        |
| . . . 46                  |            | . . . DE 5121         | HPU WIRING DIAGRAM                                                     | 0          |            |
| . . . 47                  |            | . . . OC 41622        | BOLT M4 x 16 PAN POZI SCREW A2 SS                                      | 4          | N4F        |
| . . . 48                  |            | . . . PC0164          | WASHER M4 SPRING SS                                                    | 4          | DUCT       |
| . . . 49                  |            | . . . PA9746          | WASHER M5 SPRING SS                                                    | 4          | N5C        |
| . . . 201                 |            | . . . OC 9303         | HELICOIL M8 X 2D SS A4                                                 | 2          | N13G       |
| . . . 202                 |            | . . . OC 9407         | HELICOIL M10 x 2D SS A4                                                | 16         | N13D       |
| . . . 203                 |            | . . . OC 9406         | HELICOIL M8 x 1D SS A4                                                 | 2          | N13G       |
| . . . 210                 |            | . . . LB 0084-1       | HPU ASSY, SETUP, TEST                                                  | 0          | CON3       |
| . . . 211                 |            | . . . OB 1028         | BOLT M5 x 12 SHCS A4 SS / M5 x 12                                      | 2          | N5D        |
| . . . 213                 |            | . . . DI 3702         | HPU MOUNTING FEET (SMALL)                                              | 2          | F11E       |
| . . . 217                 |            | . . . DI 3882         | HPU SENSOR PLATE SS                                                    | 1          | F2D        |
| . . . 218                 |            | . . . PB9266          | BOLT M6 x 20 SHCS SS                                                   | 4          | DUCT       |

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|---------------------|------------|------------------|-----------------------------------------------------------------|------------|------------|
| . . . 219           |            | . . . OC 9309    | HELICOIL M6 X 1 1/2D A4 SS                                      | 4          | N13H       |
| . . . 220           |            | . . . OR150125   | O RING BS125 (33.00 x 2.62)                                     | 1          | OR 2F      |
| . . . 221           |            | . . . PB9764     | WASHER M6 SPRING SS                                             | 4          | DUCT       |
| . . . 2             |            | . . . AC0269     | PUMP, REXROTH 100CC, DFR                                        | 1          |            |
| . . . 3             |            | . . . KT 4017-4  | PP TO PUMP INTERFACE KIT 100-60HP / A10VSO100                   | 1          |            |
| . . . 100           |            | . . . DI 3710    | PUMP MOUNT (REXROTH 100,71)                                     | 1          | F10G       |
| . . . 101           |            | . . . DI 3737    | Motor Half Coupling Complete                                    | 1          | E12D       |
| . . . 102           |            | . . . DI 3738    | PUMP HALF COUPLING COMPLETE REX 100                             | 1          | E12E       |
| . . . 103           |            | . . . OV 4478    | COUPLING SPIDER / L150 ELEMENT HYTREL                           | 1          | E12F       |
| . . . 104           |            | . . . OB 1154    | GRUB SCREW M8 x 20 SS                                           | 2          | N6E        |
| . . . 105           |            | . . . OR 1050    | O RING BS247 (117 x 3.53)                                       | 1          | OR 4D      |
| . . . 106           |            | . . . AA0584     | SPACER COUPLING MOTOR HALF                                      | 1          | F9A        |
| . . . 107           |            | . . . PD2235     | NUT M16 NYLOC SS                                                | 2          | N9E        |
| . . . 108           |            | . . . PC2914     | WASHER M16 FLAT SS                                              | 4          | N9C        |
| . . . 109           |            | . . . PF3194     | BOLT M16 / X 60 HX HD SS                                        | 2          | N9C        |
| . . . 4             |            | . . . AA0224     | KIT DRG PRESSURE CONTROLLER                                     | 1          | D5D        |
| . . . 8             |            | . . . AB5673     | ASSEMBLY QUANTUM 18L RESERVOIR                                  | 1          | BAY 2      |
|                     |            |                  |                                                                 |            | FLOOR      |
| . . . 1             |            | . . . AB5672     | HOUSING SUCTION                                                 | 1          | F9A        |
| . . . 2             |            | . . . DE 2111    | 6.3 LITRE COMP, BASE PLATE                                      | 1          | G10A       |
| . . . 3             |            | . . . DE 2112    | 6.3 LITRE COMP PISTON HOUSING                                   | 1          | K6A/C      |
| . . . 4             |            | . . . VE 3236    | MAIN BODY VENOM RESERVOIR                                       | 1          | K11E/F/G   |
| . . . 5             |            | . . . VE 3310    | PISTON VENOM RESERVOIR                                          | 1          | L1A&B      |
| . . . 6             |            | . . . TEMP 780   | 6.3L DIAPHRAGM                                                  | 1          | K8F        |
| . . . 7             |            | . . . OV 4690-4  | BAR MAGNETS NEODYMIUM / 9.0mm dia X 9mm high                    | 4          | K7F        |
| . . . 8             |            | . . . VE 3092-1  | SPRING 6.3L COMP, 7-14 PSI                                      | 1          | M3D/E      |
| . . . 9             |            | . . . AA2900     | BLOCK RESERVOIR INTERFACE                                       | 1          | F10A       |
| . . . 10            |            | . . . AA0306     | FILTER SUCTION STRAINER / 2"BSP 225LPM                          | 1          | E6G        |
| . . . 11            |            | . . . OR 1065    | O RING BS268 (NBR70)                                            | 2          | M6E        |
| . . . 13            |            | . . . AA0409     | CONNECTOR MCBH-2-MP SS / IMPULSE                                | 1          | B7E        |
| . . . 14            |            | . . . PA0192     | BOLT M6 x 25 SHCS SS                                            | 12         | DUCT       |
| . . . 15            |            | . . . PA4774     | BOLT M6 x 30 SHCS SS                                            | 12         | DUCT       |
| . . . 16            |            | . . . PA4815     | BOLT M6 x 50 SHCS SS                                            | 12         | DUCT       |
| . . . 17            |            | . . . PA4794     | BOLT M6 x 40 SHCS SS                                            | 12         | DUCT       |
| . . . 18            |            | . . . PA0078     | NUT M6 NYLOC SS                                                 | 24         | DUCT       |
| . . . 19            |            | . . . PA0546     | WASHER M6 FLAT SS                                               | 36         | DUCT       |
| . . . 20            |            | . . . PB9764     | WASHER M6 SPRING SS                                             | 24         | DUCT       |
| . . . 21            |            | . . . WA1902     | FITTING MMA 2"BSP                                               | 1          | D11B       |
| . . . 22            |            | . . . PD5635     | INSERT HELICOIL M12 x 1.5D SS                                   | 8          | N13F       |
| . . . 23            |            | . . . PD5639     | INSERT HELICOIL M10 x 1.5D SS                                   | 8          | N13F       |
| . . . 24            |            | . . . PD5645     | INSERT HELICOIL M6 x 1.5D SS                                    | 24         | N13F       |
| . . . 25            |            | . . . PD5650     | INSERT HELICOIL M4 x 2D SS                                      | 2          | N13F       |
| . . . 9             |            | . . . AB5602     | OIL MARINE HYDRAULIC 32cSt 205L BARREL / ROYAL PURPLE SYNTHETIC | 2          |            |
| . . . 10            |            | . . . EV 4002-10 | 1 PINT PRESS COMP, 10PSI, 6000M, BSPP / 0.7BAR                  | 1          |            |
| . . . 3             |            | . . . OV 4180-2  | COMPENSATOR-248 PRESS.HOUSING / 6000M                           | 1          | K8A        |
| . . . 4             |            | . . . OV 4181-2  | COMPENSATOR-248 SECURING CAP / 6000M                            | 1          | K7D        |
| . . . 5             |            | . . . OB 1028    | BOLT M5 x 12 SHCS A4 SS / M5 x 12                               | 1          | N5D        |
| . . . 6             |            | . . . OW 1013    | WASHER M5 SEALING / M5                                          | 1          | N5B        |
| . . . 8             |            | . . . OV 4167-1  | 1 PINT SPRING 10 PSI                                            | 1          | K9D        |
| . . . 9             |            | . . . OV 4182-4  | COMPENSATOR THRUST BEARING / 6000M                              | 1          |            |
| . . . 10            |            | . . . OV 4183-2  | COMPENSATOR-248 SPRING HOUSING / 6000M                          | 1          | L6F        |
| . . . 11            |            | . . . OV 4184-1  | Compensator-248 Piston Pos Indicator SS                         | 1          | K7C        |
| . . . 12            |            | . . . OV 4185-2  | COMPENSATOR-248 PISTON / 6000M                                  | 1          | K7D        |
| . . . 13            |            | . . . PC9412     | BOLT M5 x 30 SHCS SS                                            | 8          | DUCT       |
| . . . 14            |            | . . . PA4892     | WASHER M5 FLAT SS                                               | 16         | DUCT       |
| . . . 15            |            | . . . PD7552     | NUT M5 / NYLOC SS                                               | 8          | DUCT       |
| . . . 16            |            | . . . DV 3007    | Diaphragm 1 Pint Compensator / Modified                         | 1          | K8F        |
| . . . 1             |            | . . . OV 4187    | COMPENSATOR-248 DIAPHRAGM                                       | 1          | K9G        |
| . . . 2             |            | . . . LB 0037    | LABOUR TO MODIFY DIAPHRAGM                                      | 0          |            |
| . . . 100           |            | . . . TP Y 4041  | COMPENSATOR PRESSURE TEST                                       | 0          |            |
| . . . 101           |            | . . . MN 1004-2  | 1 Pint Comp 2 PSI Manual EV 4002-2 / Obsolete                   | 0          |            |
|                     |            |                  | ENG-MAN-1004-2                                                  |            |            |
| . . . 11            |            | . . . EV 4003-22 | COMP 2.75L 7-14PSI 4 x #6 SAE Mk 2 / ALU                        | 4          |            |
| . . . 1             |            | . . . AA0244     | PLATE 2.75L COMP / 4 x #6 SAE                                   | 4          | K8B        |
| . . . 2             |            | . . . DE 2088    | COUPLING FLANGE 181DIA                                          | 4          | K7B        |
| . . . 3             |            | . . . DE 2089    | COUPLING FLANGE                                                 | 4          | K7B        |
| . . . 4             |            | . . . AB0674     | BASEPLATE 2.75L COMP                                            | 4          | F10F       |
| . . . 5             |            | . . . DE 2086    | PRESSURE HOUSING (TOP) / 133 dia x 110                          | 4          | K10G/K11   |
| . . . 6             |            | . . . DE 2085    | PISTON HOUSING (BOTTOM) / 133 dia x 258                         | 4          | L1E-G      |
| . . . 7             |            | . . . DE 2098    | PISTON 126 DIA                                                  | 4          | K2A/K3A    |
| . . . 8             |            | . . . OR152431   | SEAL O-RING 132.0 x 7.0                                         | 8          | M6F        |
| . . . 9             |            | . . . DV 3008    | Diaphragm 2.75L Compensator 130 120 130                         | 4          | K8E/F      |

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|---------------------|------------|---------------|------------------------------------------------------------------------|------------|------------|
| . . 12              |            | . . DE 3736   | TIE BAR 429 LONG SS                                                    | 16         | K10A       |
| . . 13              |            | . . PA0078    | NUT M6 NYLOC SS                                                        | 80         | DUCT       |
| . . 14              |            | . . PA0546    | WASHER M6 FLAT SS                                                      | 128        | DUCT       |
| . . 15              |            | . . PA4815    | BOLT M6 x 50 SHCS SS                                                   | 48         | DUCT       |
| . . 16              |            | . . OV 4638   | SPRING TYPE 'B' 2.75 COMP / 99.6DIA 582 LONG<br>(CROSS SECTION 7.62mm) | 4          | CON4 D2    |
| . . 18              |            | . . OV 4690-4 | BAR MAGNETS NEODYMIUM / 9.0mm dia X 9mm high                           | 24         | K7F        |
| . 12                |            | . EV 4016-4   | 6.3L COMP LINEAR SENSOR KIT 24V / Mk 2                                 | 1          | M14E       |
| . . 1               |            | . . AB0676    | VESSEL PCB MOUNT 243 LONG                                              | 1          | F10D       |
| . . 2               |            | . . AA0572    | LINEAR SENSOR PCB 24V 250 LONG                                         | 1          |            |
| . . . 3             |            | . . . AA0573  | DRAWING LINEAR SENSOR CIRCUIT 24V                                      | 0          |            |
| . . . 4             |            | . . . AA3369  | STANDARD LINEAR CIRCUIT                                                | 1          | C3D        |
| . . . 5             |            | . . . AA3364  | RESISTOR SURFACE MOUNT 1MR                                             | 1          | C5C        |
| . . . 6             |            | . . . AA3355  | RESISTOR SURFACE MOUNT 3K9                                             | 1          | C5C        |
| . . . 7             |            | . . . AA3356  | RESISTOR SURFACE MOUNT 5K6                                             | 1          | C5C        |
| . . . 8             |            | . . . LB 0100 | TECHNICIAN LABOUR                                                      | 1          |            |
| . . 3               |            | . . AB0677    | CLAMP BODY                                                             | 1          | F1E        |
| . . 4               |            | . . AB0678    | CLAMP COVER                                                            | 1          | F1G        |
| . . 5               |            | . . PJ6580    | CONNECTOR IMPULSE MCBH-3-MP SS                                         | 1          | B7B        |
| . . 6               |            | . . PD5649    | INSERT HELICOIL M5 x 2D SS                                             | 2          | N13G       |
| . . 8               |            | . . PC4025    | SEAL O-RING BS018 (18.77 X 1.78)                                       | 1          | OR 1E      |
| . . 9               |            | . . PC9509    | SEAL O-RING BS119 (23.47 x 2.62)                                       | 1          | OR 2D      |
| . . 10              |            | . . PE4415    | BOLT M5 x 35 SHCS A4 SS                                                | 2          | DUCT       |
| . . 11              |            | . . PA9746    | WASHER M5 SPRING SS                                                    | 2          | N5C        |
| . . 12              |            | . . PJ2542    | BOLT M4 x 50 SHCS SS                                                   | 2          | N4F        |
| . 13                |            | . EV 4013-11  | 2.75L COMP LINEAR SENSOR KIT 24V / Mk 2                                | 4          | M14D       |
| . . 1               |            | . . AA0572    | LINEAR SENSOR PCB 24V 250 LONG                                         | 4          |            |
| . . . 3             |            | . . . AA0573  | DRAWING LINEAR SENSOR CIRCUIT 24V                                      | 0          |            |
| . . . 4             |            | . . . AA3369  | STANDARD LINEAR CIRCUIT                                                | 4          | C3D        |
| . . . 5             |            | . . . AA3364  | RESISTOR SURFACE MOUNT 1MR                                             | 4          | C5C        |
| . . . 6             |            | . . . AA3355  | RESISTOR SURFACE MOUNT 3K9                                             | 4          | C5C        |
| . . . 7             |            | . . . AA3356  | RESISTOR SURFACE MOUNT 5K6                                             | 4          | C5C        |
| . . . 8             |            | . . . LB 0100 | TECHNICIAN LABOUR                                                      | 4          |            |
| . . 2               |            | . . PD5649    | INSERT HELICOIL M5 x 2D SS                                             | 8          | N13G       |
| . . 3               |            | . . AB0677    | CLAMP BODY                                                             | 4          | F1E        |
| . . 4               |            | . . AB0678    | CLAMP COVER                                                            | 4          | F1G        |
| . . 5               |            | . . PJ6580    | CONNECTOR IMPULSE MCBH-3-MP SS                                         | 4          | B7B        |
| . . 6               |            | . . AB0675    | VESSEL PCB MOUNT 266 LONG                                              | 4          | F10D       |
| . . 8               |            | . . PC4025    | SEAL O-RING BS018 (18.77 X 1.78)                                       | 4          | OR 1E      |
| . . 9               |            | . . PC9509    | SEAL O-RING BS119 (23.47 x 2.62)                                       | 4          | OR 2D      |
| . . 10              |            | . . PE4415    | BOLT M5 x 35 SHCS A4 SS                                                | 8          | DUCT       |
| . . 11              |            | . . PA9746    | WASHER M5 SPRING SS                                                    | 8          | N5C        |
| . . 12              |            | . . PJ2542    | BOLT M4 x 50 SHCS SS                                                   | 8          | N4F        |
| . 14                |            | . AB7441      | ASSEMBLY AUXILIARY MANIFOLD                                            | 1          |            |
| . . 1               |            | . . AB7442    | MANIFOLD AUXILIARY TOOLS                                               | 1          |            |
| . . 2               |            | . . AB7696    | VALVE PRESS REDUCING / T-2A 80LPM                                      | 1          |            |
| . . 3               |            | . . PD3852    | TEST POINT SS 1/4" BSP SMK2004/4PCSS / STAUFF                          | 1          | D6E        |
| . . 4               |            | . . PD5645    | INSERT HELICOIL M6 x 1.5D SS                                           | 2          | N13F       |
| . 15                |            | . AB7698      | ASSEMBLY VB PUMP MANIFOLD                                              | 1          |            |
| . . 1               |            | . . AB7697    | MANIFOLD VB PUMP LOAD                                                  | 1          | R2F        |
| . . 2               |            | . . AA1236    | VALVE SUN / CVCV-XCN                                                   | 1          | D1G        |
| . . 3               |            | . . PD3852    | TEST POINT SS 1/4" BSP SMK2004/4PCSS / STAUFF                          | 1          | D6E        |
| . . 4               |            | . . AB7710    | VALVE SUN FLOW CONTROL (38LPM) / PRESSURE<br>COMPENSATED               | 1          |            |
| 2                   |            | AB4239        | G. A. 4000M MBARI QUANTUM ROV                                          | 0          |            |
| 3                   |            | AB4492        | DRAWING ROV INTERFACE / SLED & INSTRUMENT<br>FRAME                     | 0          |            |
| 4                   |            | AB4312        | ASSEMBLY BASE CHASSIS / MBARI QUANTUM                                  | 1          |            |
| . 1                 |            | . AB4346      | FABRICATION CHASSIS BASE                                               | 1          |            |
| . 2                 |            | . AB4347      | FABRICATION CHASSIS TOP                                                | 1          |            |
| . 3                 |            | . AB5341      | STRUT VERTICAL LIFT                                                    | 4          | BAY 3F     |
| . 5                 |            | . AA5505      | BEAM CHASSIS REAR                                                      | 1          | BAY 2B     |
| . 6                 |            | . AA5506      | BEAM CHASSIS FRONT                                                     | 1          | BAY 2B     |
| . 7                 |            | . AB7212      | BEAM CHASSIS SIDE (P) MBARI                                            | 1          |            |
| . 8                 |            | . AB7213      | BEAM CHASSIS SIDE (S) MBARI                                            | 1          |            |
| . 9                 |            | . AA0492      | BLOCK CHASSIS CORNER                                                   | 4          | G2C        |
| . 10                |            | . AA0493      | BLOCK CHASSIS JOINT                                                    | 8          | G9D        |
| . 13                |            | . PA4739      | BOLT M12 x 80 SHCS GR 12.9 COATED                                      | 16         | N7E        |
| . 14                |            | . PE9079      | NUT M12 GR12 COATED                                                    | 16         | N8D        |
| . 15                |            | . PG2115      | WASHER M12 FLAT HEAVY DUTY COATED                                      | 32         | N8E        |
| . 21                |            | . AB5607      | STRUT SIDE VERTICAL                                                    | 4          | BAY 3G     |
| . 23                |            | . AB7375      | ASSEMBLY SKIDS & GRATING / MBARI                                       | 1          |            |
| . . 1               |            | . . AA5993    | PAD QUANTUM SKID OUTER                                                 | 2          | BAY 3      |



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|---------------------------|------------|-------------|------------------------------------------------------|------------|------------|
|                           |            |             |                                                      |            | FLOOR      |
| . . 2                     |            | . . AA5994  | PAD QUANTUM SKID INNER                               | 2          | BAY 3      |
|                           |            |             |                                                      |            | FLOOR      |
| . . 3                     |            | . . AB7269  | GRATING OUTER #1                                     | 2          |            |
| . . 4                     |            | . . AA6253  | GRATING SHEET #2                                     | 1          |            |
| . . 5                     |            | . . AA6729  | PAD GRATING RETAINER                                 | 4          |            |
| . . 6                     |            | . . PA0260  | BOLT M10 x 50 SHCS SS A4 - 80                        | 32         | DUCT       |
| . . 7                     |            | . . PA0222  | NUT M10 NYLOC SS                                     | 38         | DUCT       |
| . . 8                     |            | . . PA0528  | WASHER M10 FLAT SS                                   | 38         | DUCT       |
| . . 9                     |            | . . AA4655  | BOLT M10 / X 150 SHCS A2 SS                          | 4          | N7D        |
| . . 10                    |            | . . PB9175  | BOLT M10 x 160 SHCS SS                               | 2          | N7B        |
| . . 11                    |            | . . AA6899  | PAD GRATING RETAINER MID                             | 2          | G9D        |
| . . 12                    |            | . . AB5275  | GRATING SHEET AFT MID /                              | 1          |            |
| . . 13                    |            | . . AB7270  | GRATING OUTER #2                                     | 2          |            |
| . 24                      |            | . AB1641    | FABRICATION FWD STRUT                                | 2          |            |
| . 25                      |            | . AA5629    | FABRICATION CORNER STRUT                             | 2          | BAY 3G     |
| . 28                      |            | . AB7210    | BEAM LATERAL                                         | 2          |            |
| . 29                      |            | . AA6137    | SPACER CHASSIS                                       | 2          | G9D        |
| . 30                      |            | . AA6156    | BRACKET STRUT ATTACHMENT                             | 2          | F6C        |
| . 31                      |            | . AA6157    | BRACKET BEAM ATTACHMENT                              | 2          | F6D        |
| . 32                      |            | . AA5510    | PAD LIFTPOINT BOLTS                                  | 4          | F10A       |
| . 35                      |            | . AB4313    | STRUT DIAGONAL FRONT PORT                            | 2          | BAY 3G     |
| . 36                      |            | . AB4314    | STRUT DIAGONAL FRONT STBD                            | 2          | BAY 3G     |
| . 37                      |            | . AA0722    | PIN THRUSTER PLATE                                   | 16         | F10A       |
| . 41                      |            | . AA6730    | BEAM REAR                                            | 1          | BAY 2B     |
| . 42                      |            | . PA5724    | BOLT M10 x 30 SHCS SS A4-80                          | 50         | DUCT       |
| . 43                      |            | . PD5082    | BOLT M8 x 30 SKT CSK SS A2-70                        | 24         | DUCT       |
| . 44                      |            | . PB5117    | BOLT M8 x 25 SHCS SS A4-80                           | 22         | DUCT       |
| . 45                      |            | . PE7328    | BOLT M8 x 25 SKT CSK SS                              | 8          | N6D        |
| . 46                      |            | . PB9185    | BOLT M12 x 30 SHCS SS A4 - 80                        | 16         | DUCT       |
| . 47                      |            | . PC2742    | BOLT M10 x 65 SHCS SS A2-70                          | 96         | N7D        |
| . 48                      |            | . PB5010    | BOLT M10 x 70 SHCS SS                                | 4          | N7A        |
| . 49                      |            | . PB2172    | BOLT M10 x 35 SHCS SS A4 - 80                        | 42         | DUCT       |
| . 50                      |            | . PA0222    | NUT M10 NYLOC SS                                     | 202        | DUCT       |
| . 51                      |            | . PA0528    | WASHER M10 FLAT SS                                   | 266        | DUCT       |
| . 52                      |            | . PB8110    | NUT M12 NYLOC SS                                     | 16         | DUCT       |
| . 53                      |            | . PA4860    | WASHER M12 FLAT SS                                   | 16         | DUCT       |
| . 54                      |            | . PB3107    | NUT M8 NYLOC SS                                      | 58         | DUCT       |
| . 55                      |            | . PC2388    | WASHER M8 FLAT SS                                    | 58         | DUCT       |
| . 56                      |            | . AA5574    | BEAM HPU MOUNT                                       | 2          | BAY 2F     |
| . 58                      |            | . AB6696    | FABRICATION PORT CHASSIS SIDE                        | 1          |            |
| . 59                      |            | . AB6697    | FABRICATION STBD CHASSIS SIDE                        | 1          |            |
| . 62                      |            | . AB5610    | CROSS TIE BRACE                                      | 2          | G11C       |
| . 63                      |            | . AB5608    | LATERAL STRUT                                        | 8          | BAY 2A     |
| . 64                      |            | . AB5682    | END TIE BRACE (BOTTOM)                               | 8          | P6C        |
| . 65                      |            | . PD5640    | INSERT HELICOIL M10 x 2D SS                          | 64         | N13G       |
| . 66                      |            | . PA4789    | BOLT M10 x 45 SHCS SS A4 - 80                        | 64         | DUCT       |
| . 67                      |            | . PA0051    | WASHER M10 SPRING SS                                 | 64         | DUCT       |
| . 68                      |            | . PB5861    | BOLT M10 x 40 SHCS SS A4 - 80                        | 2          | DUCT       |
| . 69                      |            | . AA0894    | BOLT M10 x 140 SHCS SS A4-80                         | 8          | N7A        |
| 5                         |            | AB4844      | ASSEMBLY - PRESSURE TESTING TO 4KM                   | 1          |            |
| . 1                       |            | . AA0607    | PCB LAMP DIMMING 12 CHANNEL                          | 1          | C2B        |
| . 2                       |            | . AB0868    | CIRCUIT PCB BOARD PSU 24 - +12/-12,5                 | 1          | C6E        |
| . 3                       |            | . AA0795    | PCB MULTIFUNCTION TCU CONTROLLER                     | 1          | C5F/G      |
| . 4                       |            | . AA0439    | PCB MULTI-FUNCTION VALVE CONTROLLER / ISSUE LEVEL D  | 1          | C5D/E      |
| . 5                       |            | . PG7194    | FIELD BUS COUPLER MODBUS (RS485) 750-315             | 1          | A11B       |
| . 6                       |            | . PJ6214    | FIELD BUS I/O MODULE DIG IP, 8-CH, 24VDC             | 1          | A11D       |
| . 7                       |            | . PJ6213    | FIELD BUS DIG OP/HS, 8-CH, 0.5A 24VDC / WAGO 750-530 | 1          | A11D       |
| . 8                       |            | . PJ7377    | FIELD BUS DIG OP/HS 2-CH 2A 24V / WAGO 750-502       | 1          | A11D       |
| . 10                      |            | . PJ7591    | FIELD BUS WAGO / 750-516 DIG OP/LS, 4-CH, 0.5A 24VDC | 1          | A11C       |
| . 11                      |            | . PJ7378    | FIELD BUS PSU 24VDC 10A 5VDC 2A 750-613              | 1          | A11C       |
| . 12                      |            | . PH5363    | FIELD BUS ANL IP/SE 0-10V 4-CH 750-468               | 1          | A11E       |
| . 13                      |            | . PJ8409    | FIELD BUS ANL IP/DF 0-20mA 2-CH / WAGO 750-452       | 1          | A11C       |
| . 14                      |            | . PG7454    | FIELD BUS END TERMINAL                               | 1          | A11F       |
| . 15                      |            | . PB2751    | FUSE 1.1A RESETTABLE                                 | 2          | A1E        |
| . 16                      |            | . PC1663    | FUSE 8A RESETTABLE                                   | 2          | A1E        |
| . 17                      |            | . PC4083    | CONNECTOR D 9-WAY PLUG                               | 1          | A2F        |
| . 18                      |            | . PC6512    | FUSE 3A RESETTABLE                                   | 1          | A1E        |
| . 19                      |            | . PK3575    | RELAY DC SOLID STATE DC INPUT                        | 1          | A5E/G      |
| . 20                      |            | . AB0745    | ASSEMBLY 24V - 5V REGULATOR                          | 1          |            |

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|---------------------|------------|-------------|------------------------------------------------------|------------|------------|
| . . 1               |            | . . AA1716  | SEMICONDUCTOR 24V TO 5V REG 1A                       | 1          | B4E        |
| . . 2               |            | . . AA2749  | INSULATING KIT / TO-220                              | 1          | B6F        |
| . . 3               |            | . . PB8758  | WASHER M3 SPRING SS                                  | 1          | DUCT       |
| . . 4               |            | . . PA4812  | WASHER M3 FLAT SS                                    | 1          | DUCT       |
| . . 5               |            | . . AA2878  | BOLT M3 x 8 PAN HEAD                                 | 1          | N4B        |
| . 21                |            | . AA4957    | CAPACITOR 22uf 25V TANT / FEC643-804                 | 1          | A1D        |
| . 22                |            | . PC7138    | FUSE 0.1A RESETTABLE / RS517-6562                    | 1          | A1E        |
| . 23                |            | . PB7878    | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK           | 5          | B4F        |
| . 24                |            | . PB7875    | RESISTOR 1K8 FEC 109-9900 / FEC MFR4                 | 1          | A1F        |
| . 25                |            | . PG3913    | TERMINAL WIELAND END CLAMP                           | 2          | N1A        |
| . 26                |            | . PH2117    | TERMINAL PHOENIX MICRO 1.5 DOUBLE                    | 50         | N1B        |
| . 27                |            | . PH2118    | TERMINAL PHOENIX MICRO 1.5 END PLATE DD              | 10         | N1F        |
| . 28                |            | . AB3931    | DRAWING ELECTRICAL PRESSURE TEST / 4000M             | 0          |            |
| . 29                |            | . PH7633    | FIELDBUS WAGO ANL OP/SE, 0-10V, 2-CH                 | 1          |            |
| . 30                |            | . PK4444    | SENSOR PRESS 0-400 BAR 4-20mA H/DUTY / 2 WIRE        | 1          | D6E        |
| . 31                |            | . OC 9301   | TEMPERATURE PROBE PT100                              | 1          | A1D        |
| . 32                |            | . PB7876    | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773                | 1          | B4F        |
| . 33                |            | . AA9398    | WAGO SOLID STATE RELAY 750-509                       | 1          | A11F       |
| . 35                |            | . OV 1125-3 | VALVE SERVO / 65mA STAR - 77 LPM                     | 1          | D4B        |
| . 36                |            | . AB5086    | ASSEMBLY 24V - 12V REGULATOR                         | 1          |            |
| . . 1               |            | . . AA8146  | SEMICONDUCTOR 24V TO 12V REG 1A                      | 1          | B4E        |
| . . 2               |            | . . AA2749  | INSULATING KIT / TO-220                              | 1          | B6F        |
| . 37                |            | . AB5261    | PLATE 19-WAY CONNECTOR TEST                          | 1          |            |
| . 38                |            | . OV 1070-2 | ELECTRICAL CONNECTOR 4 WAY                           | 1          | M12F       |
| . 39                |            | . OV 1070-3 | ELECTRICAL CONN CABLE CLAMP                          | 1          | A3C        |
| 6                   |            | AB5204      | ASSEMBLY ROV BUOYANCY/PAYLOAD/PADS / MBARI QUANTUM   | 1          |            |
| . 1                 |            | . AB4320    | BUOYANCY QUANTUM TG28 4000M                          | 1          |            |
| . 2                 |            | . AA9073    | TAPE 3M SAFETYWALK 6" x 60YD BLACK                   | 1          | R5C        |
| . 3                 |            | . PJ4775    | BOLT M8 x 40 SKT BUTTON SS                           | 18         | N6D        |
| . 4                 |            | . PB2172    | BOLT M10 x 35 SHCS SS A4 - 80                        | 72         | DUCT       |
| . 5                 |            | . AA8435    | LABEL SMD / 450 x 200                                | 2          | G13E       |
| . 6                 |            | . AA8436    | LABEL QUANTUM / 450 x 200                            | 2          |            |
| . 7                 |            | . AB5203    | PAD ROV BASE SIDE                                    | 2          | BAY 3      |
|                     |            |             | FLOOR                                                |            |            |
| . 8                 |            | . AB0548    | PAD ROV BUOYANCY SIDE                                | 2          |            |
| . 9                 |            | . AA5609    | PAD ROV SIDE VERTICAL                                | 4          | G9B        |
| . 10                |            | . AB6768    | PAD ROV BUOY CORNER                                  | 2          |            |
| . 11                |            | . AA5612    | PAD ROV CHASSIS CORNER                               | 2          |            |
| . 12                |            | . AB7610    | PAD ROV BUOYANCY END                                 | 1          |            |
| . 13                |            | . AB8863    | PAD ROV TOP SIDE (SHORT) /                           | 2          |            |
| . 14                |            | . PA0260    | BOLT M10 x 50 SHCS SS A4 - 80                        | 8          | DUCT       |
| . 15                |            | . AA6062    | PAD ROV BASE END                                     | 2          |            |
| . 16                |            | . PC0013    | WASHER 21 / X 40 X 3 SS                              | 4          | F12F       |
| . 17                |            | . AA6219    | PAD ROV AFT CORNER                                   | 2          | BAY 3C     |
| . 18                |            | . AA5575    | PAD CHASSIS AFT TOP                                  | 2          |            |
| . 19                |            | . PC1347    | NUT M20 SS                                           | 8          | N10G       |
| . 20                |            | . AB8510    | STUD M12 x 850 LONG A4 SS                            | 8          |            |
| . 21                |            | . AA0895    | BOLT M8 x 25 SKT BUTTON HEAD SS                      | 8          | N6G        |
| . 22                |            | . PA0051    | WASHER M10 SPRING SS                                 | 22         | DUCT       |
| . 23                |            | . PA0528    | WASHER M10 FLAT SS                                   | 102        | DUCT       |
| . 24                |            | . AB2639    | BUOYANCY STUDDING M20 x 1m A4 SS / M20 x 1mtr        | 4          | L8E        |
| . 25                |            | . PA4884    | WASHER M20 FLAT SS                                   | 8          | N10F       |
| . 26                |            | . PC2915    | WASHER M20 SPRING SS                                 | 8          | N11B       |
| . 27                |            | . PC3307    | NUT M20 NYLOC SS                                     | 4          | M5D        |
| . 28                |            | . PA0222    | NUT M10 NYLOC SS                                     | 80         | DUCT       |
| . 29                |            | . PA0024    | WASHER M12 SPRING SS                                 | 8          | DUCT       |
| . 30                |            | . PA4860    | WASHER M12 FLAT SS                                   | 16         | DUCT       |
| . 31                |            | . AA5115    | BLOCK LEAD BALLAST / 11" x 3" x 1.5" - EX78 UNCOATED | 38         | BAY 3A     |
| . 32                |            | . PB8110    | NUT M12 NYLOC SS                                     | 8          | DUCT       |
| . 33                |            | . PA0539    | NUT M12 SS                                           | 16         | DUCT       |
| . 34                |            | . AB6812    | WASHER BOUYANCY CORNER / 50mmx13mmx5mm               | 8          | F1E        |
| . 35                |            | . PA0379    | BOLT M8 x 20 SHCS SS A4-80                           | 4          | DUCT       |
| . 36                |            | . PF3432    | BOLT M10 / X 20 SKT BUTTON HEAD SS A4-80             | 4          | DUCT       |
| . 37                |            | . AB8592    | ROV PVC COVER QUANTUM 8                              | 1          |            |
| . 38                |            | . AB8667    | LEAD TRAY SS AFT QUANTUM                             | 2          |            |
| . 39                |            | . AB8668    | LEAD TRAY SS QUANTUM FRONT                           | 1          |            |
| . 40                |            | . PC2388    | WASHER M8 FLAT SS                                    | 22         | DUCT       |
| 7                   |            | AB5381      | ASSEMBLY ROV BRACKETS / MBARI QUANTUM                | 1          |            |
| . 1                 |            | . AB1169    | ASSEMBLY 8ST ITCU MOUNTS                             | 1          |            |
| . . 1               |            | . . AB1170  | 8ST ITCU BRACKET                                     | 2          | F11D       |
| . . 2               |            | . . PA5724  | BOLT M10 x 30 SHCS SS A4-80                          | 4          | DUCT       |

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|---------------------------|------------|-------------|---------------------------------------------------------|------------|------------|
| . . 6                     | . .        | PB8762      | BOLT M10 x 20 SHCS SS A4-80                             | 4          | DUCT       |
| . . 7                     | . .        | PA0528      | WASHER M10 FLAT SS                                      | 12         | DUCT       |
| . . 8                     | . .        | PA0051      | WASHER M10 SPRING SS                                    | 4          | DUCT       |
| . . 9                     | . .        | PA0222      | NUT M10 NYLOC SS                                        | 4          | DUCT       |
| . 2                       | . .        | AA1075      | ASSEMBLY 1 PINT COMP BRACKET                            | 1          |            |
| . . 1                     | . .        | AA1076      | BRACKET 1-PINT COMP                                     | 1          | F5C        |
| . . 2                     | . .        | PC2009      | BOLT M8 X 30 SHCS SS A4-80                              | 2          | DUCT       |
| . . 3                     | . .        | PC2388      | WASHER M8 FLAT SS                                       | 8          | DUCT       |
| . . 4                     | . .        | PB9268      | WASHER M8 SPRING SS                                     | 4          | DUCT       |
| . . 5                     | . .        | PB3107      | NUT M8 NYLOC SS                                         | 2          | DUCT       |
| . . 6                     | . .        | PB5117      | BOLT M8 x 25 SHCS SS A4-80                              | 4          | DUCT       |
| . 3                       | . .        | AB5388      | ASSEMBLY RESERVOIR MOUNT                                | 1          |            |
| . . 1                     | . .        | AB7421      | BRACKET RESERVOIR SUPPORT                               | 1          |            |
| . . 2                     | . .        | PA5724      | BOLT M10 x 30 SHCS SS A4-80                             | 2          | DUCT       |
| . . 3                     | . .        | PA0051      | WASHER M10 SPRING SS                                    | 4          | DUCT       |
| . . 4                     | . .        | PA0528      | WASHER M10 FLAT SS                                      | 4          | DUCT       |
| . . 5                     | . .        | PA4712      | BOLT M10 x 25 SHCS SS A4 - 80                           | 2          | DUCT       |
| . . 7                     | . .        | AB7422      | BRACKET RESERVOIR #B                                    | 1          |            |
| . . 8                     | . .        | PD5082      | BOLT M8 x 30 SKT CSK SS A2-70                           | 3          | DUCT       |
| . . 9                     | . .        | PB3107      | NUT M8 NYLOC SS                                         | 3          | DUCT       |
| . . 10                    | . .        | PC2388      | WASHER M8 FLAT SS                                       | 3          | DUCT       |
| . 4                       | . .        | AB7188      | ASSEMBLY 12-ST HCU MOUNT                                | 1          |            |
| . . 1                     | . .        | AB7445      | BRACKET 12-ST HCU MOUNT                                 | 1          |            |
| . 5                       | . .        | AB7187      | ASSEMBLY ALTIMETER MOUNT                                | 1          |            |
| . . 1                     | . .        | AA1932      | BRACKET SIT CAMERA                                      | 1          | G9A        |
| . . 2                     | . .        | PB2878      | CLIP JUBILEE SIZE 6X (DIA 130-150) SS                   | 1          | H3C        |
| . . 3                     | . .        | PA4774      | BOLT M6 x 30 SHCS SS                                    | 4          | DUCT       |
| . . 4                     | . .        | PA0078      | NUT M6 NYLOC SS                                         | 4          | DUCT       |
| . . 5                     | . .        | PA0546      | WASHER M6 FLAT SS                                       | 4          | DUCT       |
| . 6                       | . .        | AB6675      | ASSEMBLY LIGHTING BAR                                   | 1          |            |
| . . 1                     | . .        | AB6676      | FABRICATION LIGHTING BAR                                | 1          |            |
| . . 2                     | . .        | AB6677      | FABRICATION HDTV HANGER                                 | 1          |            |
| . . 3                     | . .        | AB6678      | PLATE TOP MOUNT LIGHTING BAR                            | 2          |            |
| . . 4                     | . .        | AB6679      | SPACER LIGHTING BAR MOUNT                               | 2          |            |
| . . 5                     | . .        | AB8511      | BOSS FRAME FIXING                                       | 2          |            |
| . . 6                     | . .        | AB8526      | PIN SPIROL 4 x 35 HCK (HEAVY DUTY SS)                   | 2          |            |
| . . 7                     | . .        | PD7142      | BOLT M8 x 20 HX HD SS                                   | 8          | N6H        |
| . . 8                     | . .        | PB9268      | WASHER M8 SPRING SS                                     | 8          | DUCT       |
| . . 9                     | . .        | AC0049      | CAP SQUARE SECTION                                      | 2          |            |
| . 8                       | . .        | AB7185      | ASSEMBLY POD BRACKETS / 4000m POD                       | 1          |            |
| . . 1                     | . .        | AB7186      | MOUNT ELECTRONICS POD / DIA 326                         | 2          |            |
| . . 2                     | . .        | PA5724      | BOLT M10 x 30 SHCS SS A4-80                             | 4          | DUCT       |
| . . 3                     | . .        | PA0528      | WASHER M10 FLAT SS                                      | 4          | DUCT       |
| . . 4                     | . .        | PA0051      | WASHER M10 SPRING SS                                    | 4          | DUCT       |
| . . 5                     | . .        | AA2664      | TURNBUCKLE FORK & FORK CLOSED BODY / 541-1/4 SS         | 4          | L2C        |
| . . 6                     | . .        | AB6952      | POD STRAP 500MM BLUE                                    | 2          | L2D        |
| . . 7                     | . .        | PC2388      | WASHER M8 FLAT SS                                       | 16         | DUCT       |
| . . 8                     | . .        | PB5117      | BOLT M8 x 25 SHCS SS A4-80                              | 8          | DUCT       |
| . . 9                     | . .        | PB3107      | NUT M8 NYLOC SS                                         | 8          | DUCT       |
| . . 10                    | . .        | PK1866      | SHACKLE 'D' 8mm SS / 8mm Dia                            | 2          | E10F       |
| . 9                       | . .        | AB6995      | ASSEMBLY HPU BRACKETS                                   | 1          |            |
| . . 1                     | . .        | AB6994      | BRACKET HPU MOUNT                                       | 2          | F10C       |
| . . 2                     | . .        | PA0528      | WASHER M10 FLAT SS                                      | 8          | DUCT       |
| . . 3                     | . .        | PA0222      | NUT M10 NYLOC SS                                        | 4          | DUCT       |
| . . 4                     | . .        | PA5724      | BOLT M10 x 30 SHCS SS A4-80                             | 4          | DUCT       |
| . . 5                     | . .        | PA0546      | WASHER M6 FLAT SS                                       | 8          | DUCT       |
| . . 6                     | . .        | PA0078      | NUT M6 NYLOC SS                                         | 4          | DUCT       |
| . . 7                     | . .        | PC3341      | BOLT M6 x 10 SHCS SS                                    | 4          | DUCT       |
| . 10                      | . .        | AB7439      | ASSEMBLY LD BOX MOUNTS /                                | 1          |            |
| . . 1                     | . .        | AB7462      | BRACKET LD BOX PORT /                                   | 2          |            |
| . . 2                     | . .        | AB7463      | BRACKET LD BOX STBD /                                   | 2          |            |
| . . 3                     | . .        | PB2172      | BOLT M10 x 35 SHCS SS A4 - 80                           | 4          | DUCT       |
| . . 4                     | . .        | PA0222      | NUT M10 NYLOC SS                                        | 12         | DUCT       |
| . . 5                     | . .        | PA0260      | BOLT M10 x 50 SHCS SS A4 - 80                           | 8          | DUCT       |
| . . 6                     | . .        | PA0528      | WASHER M10 FLAT SS                                      | 24         | DUCT       |
| . 11                      | . .        | AB7440      | ASSEMBLY JB MOUNTS                                      | 2          |            |
| . . 1                     | . .        | AB7553      | BRACKET JUNCTION BOX                                    | 2          |            |
| . 12                      | . .        | AB7444      | ASSEMBLY VB SYSTEM MOUNTINGS                            | 1          |            |
| . . 1                     | . .        | AB8314      | BRACKET VB SPHERE                                       | 4          |            |
| . . 2                     | . .        | PG0268      | CLAMP STAUFF / STD 42MM OD SINGLE GRP5 SS C/W TOP+BOLTS | 1          | E4C        |
| . . 3                     | . .        | PD8854      | CLAMP STAUFF / STD 48.3 OD SINGLE GRP6 SS C/W           | 2          | E5B        |

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|---------------------|--------------|------------------------------------------------------------|---------------------------|------------|------------|
|                     |              |                                                            | TOP+BOLTS                 |            |            |
| . . 4               | . . AB8491   | STRAP VB SPHERE                                            |                           | 4          |            |
| . . 5               | . . AB6929   | DRAWING VB ASSEMBLY CIRCUIT                                |                           | 0          |            |
| . . 6               | . . AB8553   | FABRICATION POD MOUNT                                      |                           | 2          |            |
| . . 7               | . . AB8555   | BEAM VB MOUNT                                              |                           | 1          |            |
| . . 8               | . . AB8568   | BEAM OUTER VB MOUNT                                        |                           | 2          |            |
| . . 9               | . . AB8569   | SPACER VB MOUNT BEAM                                       |                           | 2          |            |
| . . 10              | . . PA4705   | BOLT M6 x 45 SHCS A2 SS                                    |                           | 4          | N5D        |
| . . 11              | . . PB9266   | BOLT M6 x 20 SHCS SS                                       |                           | 4          | DUCT       |
| . . 12              | . . PA0078   | NUT M6 NYLOC SS                                            |                           | 8          | DUCT       |
| . . 13              | . . PA0546   | WASHER M6 FLAT SS                                          |                           | 8          | DUCT       |
| . . 14              | . . PC0219   | BOLT M8 x 45 SHCS SS                                       |                           | 16         | DUCT       |
| . . 15              | . . PB5117   | BOLT M8 x 25 SHCS SS A4-80                                 |                           | 12         | DUCT       |
| . . 16              | . . PB3107   | NUT M8 NYLOC SS                                            |                           | 28         | DUCT       |
| . . 17              | . . PC2388   | WASHER M8 FLAT SS                                          |                           | 28         | DUCT       |
| . . 18              | . . AB8848   | BRACKET VB PANEL                                           |                           | 2          |            |
| . . 19              | . . PD5645   | INSERT HELICOIL M6 x 1.5D SS                               |                           | 8          | N13F       |
| . . 20              | . . AB8954   | TURNBUCKLE FORK END / 6mm RH THREAD SS                     |                           | 8          |            |
| . . 21              | . . AB9130   | FITTING MFA 7/16"UNF x 1/4"NPT SS                          |                           | 1          |            |
| . . 22              | . . PD8370   | VALVE RELIEF 15psi (1/4"NPT)                               |                           | 1          | D6F        |
| . 13                | . AB7446     | ASSEMBLY LAMP BALLAST POD MOUNTS                           |                           | 1          |            |
| . . 1               | . . AB8631   | BRACKET BULKHEAD PLATE LH                                  |                           | 1          |            |
| . . 2               | . . AB8632   | BRACKET BULKHEAD PLATE RH                                  |                           | 1          |            |
| . . 3               | . . AB8633   | CLAMP 128 DIA BOTTLE                                       |                           | 4          |            |
| . . 4               | . . PJ3748   | STUD M8 X 200 A2 SS                                        |                           | 8          |            |
| . . 5               | . . PB3107   | NUT M8 NYLOC SS                                            |                           | 28         | DUCT       |
| . . 6               | . . PA4782   | NUT M8 SS                                                  |                           | 16         | DUCT       |
| . . 7               | . . PC2388   | WASHER M8 FLAT SS                                          |                           | 48         | DUCT       |
| . . 8               | . . PB8761   | BOLT M8 x 35 SHCS SS A4                                    |                           | 12         | DUCT       |
| . . 9               | . . PA0379   | BOLT M8 x 20 SHCS SS A4-80                                 |                           | 8          | DUCT       |
| . . 10              | . . AA1932   | BRACKET SIT CAMERA                                         |                           | 2          | G9A        |
| . . 11              | . . AB8655   | BRACKET UPPER BALLAST POD                                  |                           | 2          | F7C        |
| . . 12              | . . PB2878   | CLIP JUBILEE SIZE 6X (DIA 130-150) SS                      |                           | 2          | H3C        |
| . 14                | . AB7443     | ASSEMBLY TITAN MANIP MOUNT LH                              |                           | 1          |            |
| . . 2               | . . AB5379   | PLATE SCHILLING T4 MOUNT LH                                |                           | 1          |            |
| . . 3               | . . PA0222   | NUT M10 NYLOC SS                                           |                           | 12         | DUCT       |
| . . 4               | . . PA0528   | WASHER M10 FLAT SS                                         |                           | 24         | DUCT       |
| . . 5               | . . PB5861   | BOLT M10 x 40 SHCS SS A4 - 80                              |                           | 6          | DUCT       |
| . . 6               | . . AA4655   | BOLT M10 / X 150 SHCS A2 SS                                |                           | 2          | N7D        |
| . . 7               | . . PB7718   | BOLT M10 x 180 SHCS SS                                     |                           | 2          | N7A        |
| . . 8               | . . PB9175   | BOLT M10 x 160 SHCS SS                                     |                           | 2          | N7B        |
| . . 9               | . . PC0385   | WASHER 1/2" / FLAT SS                                      |                           | 6          | N9H        |
| . . 10              | . . PE2836   | NUT 1/2"UNF / LOCKNUT SS                                   |                           | 6          | N13H       |
| . . 11              | . . PB5065   | WASHER 1/2" SPRING SS                                      |                           | 6          | N9H        |
| . . 12              | . . AB2839   | 1/2" UNF A4 STUDDING 4" LONG SS                            |                           | 6          | L8D        |
| . 15                | . AB7905     | ASSEMBLY 2.75L COMP MOUNTS                                 |                           | 2          |            |
| . . 1               | . . AB1297   | CLAMP COMPENSATOR DUAL (PAIR)                              |                           | 4          | G9G+10F    |
| . . 2               | . . AA0876   | STUD M10 x 205 SS                                          |                           | 12         | N5H        |
| . . 3               | . . PA0222   | NUT M10 NYLOC SS                                           |                           | 24         | DUCT       |
| . . 4               | . . PA0528   | WASHER M10 FLAT SS                                         |                           | 24         | DUCT       |
| . . 6               | . . AB7906   | BEAM COMPENSATOR MOUNT                                     |                           | 4          |            |
| . . 7               | . . PC0219   | BOLT M8 x 45 SHCS SS                                       |                           | 16         | DUCT       |
| . . 8               | . . PB3107   | NUT M8 NYLOC SS                                            |                           | 16         | DUCT       |
| . . 9               | . . PC2388   | WASHER M8 FLAT SS                                          |                           | 16         | DUCT       |
| . 16                | . HRS1761352 | ANODE ROV-0148-030-04                                      |                           | 10         | L10A       |
| . 17                | . AB8146     | ASSEMBLY TCU FILTER BRACKETS                               |                           | 1          |            |
| . . 2               | . . AB7007   | FILTER BRACKET 80 - 100mm DIA                              |                           | 1          | G1E        |
| . . 3               | . . PA0054   | CLIP JUBILEE 80-130mm SS / PARKER - SS7200N                |                           | 2          | H5D        |
| . 18                | . PG0268     | CLAMP STAUFF / STD 42MM OD SINGLE GRP5 SS C/W<br>TOP+BOLTS |                           | 1          | E4C        |
| . 19                | . AB8209     | BRACKET ELECTRICAL TERMINATION                             |                           | 1          |            |
| . 20                | . AB8622     | PLATE BULKHEAD (14 x 3/8" SWAGELOK)                        |                           | 1          |            |
| . 21                | . AB8654     | PLATE BULKHEAD (8 x 3/8" SWAGELOK)                         |                           | 1          |            |
| . 22                | . AB8707     | ASSEMBLY SCIENCE BOX MOUNT                                 |                           | 1          |            |
| . . 1               | . . AB8708   | BEAM SCIENCE BOX MOUNT                                     |                           | 1          |            |
| . . 2               | . . AB8730   | BRACKET POD VESSEL / DIA 120-180                           |                           | 2          |            |
| . . 3               | . . PA4774   | BOLT M6 x 30 SHCS SS                                       |                           | 8          | DUCT       |
| . . 4               | . . PA0078   | NUT M6 NYLOC SS                                            |                           | 8          | DUCT       |
| . . 5               | . . PA0546   | WASHER M6 FLAT SS                                          |                           | 8          | DUCT       |
| . . 6               | . . PB5117   | BOLT M8 x 25 SHCS SS A4-80                                 |                           | 4          | DUCT       |
| . . 7               | . . PB3107   | NUT M8 NYLOC SS                                            |                           | 4          | DUCT       |
| . . 8               | . . PC2388   | WASHER M8 FLAT SS                                          |                           | 4          | DUCT       |
| . . 9               | . . PG0230   | CLIP JUBILEE SIZE 8-1/2" (DIA 180-215) S                   |                           | 2          | H5E        |

Part: C903RV  
Description: Tiburon II ROV System - RV  
Size:

| <u>Eng.</u><br><u>No.</u> | <u>Ref</u> | <u>Part</u>  | <u>Description / Size</u>                                 | <u>Qty</u> | <u>Bin</u> |
|---------------------------|------------|--------------|-----------------------------------------------------------|------------|------------|
| . 23                      |            | . AB8749     | ASSEMBLY DVL MOUNT                                        | 1          |            |
| . . 1                     |            | . . AB8750   | PLATE DVL MOUNT                                           | 1          |            |
| . . 2                     |            | . . AB8751   | SPACER DVL MOUNT                                          | 2          | BAY 3C     |
| . . 3                     |            | . . PA0078   | NUT M6 NYLOC SS                                           | 8          | DUCT       |
| . . 4                     |            | . . PA0546   | WASHER M6 FLAT SS                                         | 8          | DUCT       |
| . . 5                     |            | . . PA4815   | BOLT M6 x 50 SHCS SS                                      | 8          | DUCT       |
| . 24                      |            | . AB8564     | GUIDE LAUNCH HOSE                                         | 1          |            |
| . 25                      |            | . AB8565     | GUIDE UMBILICAL                                           | 1          |            |
| 8                         |            | AB5465       | ASSEMBLY LIFTPOINT / MBARI QUANTUM                        | 1          |            |
| . 1                       |            | . AB5408     | SOCKET UMBILICAL SPELTER                                  | 1          |            |
| . 2                       |            | . AB5475     | BALE ARM ROV RECOVERY                                     | 1          |            |
| . 3                       |            | . AB5476     | STROP EMERGENCY RECOVERY                                  | 1          |            |
| . 4                       |            | . AB5477     | KEY ROV LAUNCH                                            | 1          |            |
| . 5                       |            | . AB5729     | ASSEMBLY LAUNCH BLOCK                                     | 1          |            |
| . . 1                     |            | . . AB5478   | BLOCK ROV LAUNCH                                          | 1          |            |
| . . 2                     |            | . . AA8222   | ROV-0186-103-02 E / PISTON ROD                            | 2          | F8F        |
| . . 3                     |            | . . AA8223   | ROV-0186-103-03 SPACER                                    | 2          | F1F        |
| . . 4                     |            | . . AA8234   | RETAINING RING / (SMALLEY/TFC - WS-87-SO2)                | 2          | N12E       |
| . . 5                     |            | . . AB6222   | LATCH ROLLER                                              | 2          |            |
| . . 6                     |            | . . AA8226   | ROV-0186-103-06 GLAND                                     | 2          | B1G        |
| . . 7                     |            | . . AA8227   | ROV-0186-103-07 C / PLUG                                  | 2          | D11D       |
| . . 8                     |            | . . AA8228   | ROV-0186-103-08 / COMPRESSION SPRING                      | 2          | E8F        |
| . . 9                     |            | . . AA8229   | ROV-0186-103-11 A / SPACER                                | 8          | G1C        |
| . . 10                    |            | . . AA8215   | O RING / 28.3 x 1.78                                      | 2          | OR 11C     |
| . . 11                    |            | . . AA8219   | O RING / 11.6 X 2.4                                       | 2          | OR 11E     |
| . . 12                    |            | . . AA8230   | SEAL ANTI-EXTRUSION RING (252-638-1670)                   | 2          | OR 12B     |
| . . 13                    |            | . . AA8231   | SPIRAL PTFE ANTI -EXTRUSION RING / (DOWTY - 252-210-1670) | 6          | OR 12B     |
| . . 14                    |            | . . AA8235   | SLYDRING / (SHAMBAN - S-57165-0254-47-A)                  | 2          | OR 11C     |
| . . 15                    |            | . . AA8233   | TORSION SPRING / (ASSOCIATED SPRINGS - T085-180-641R)     | 4          | K9E        |
| . . 17                    |            | . . AA8220   | SEAL O RING 18.64 x 3.53                                  | 4          | OR 11E     |
| . . 18                    |            | . . AB5730   | PIN ROLLER                                                | 2          |            |
| . . 19                    |            | . . PC1130   | BLANK KOENIG 5MM SS / MB 600-050                          | 4          | N13E       |
| . . 20                    |            | . . PE5907   | BLANK KOENIG 8MM SS / MB 600-080                          | 2          | N13D       |
| . . 21                    |            | . . AB7000   | CIRCLIP 16mm INT BS1300 SS                                | 4          |            |
| . . 22                    |            | . . AB9112   | FITTING PLUG M12 VSR SS                                   | 2          |            |
| . 6                       |            | . AB5479     | BEAM ROV LIFTPOINT                                        | 2          |            |
| . 7                       |            | . AB5847     | PIN LIFTPOINT CARRIAGE                                    | 2          |            |
| . 8                       |            | . AB5848     | PIN RECOVERY BALE ARM                                     | 2          |            |
| . 9                       |            | . AB5846     | YOKE ROV LIFTPOINT MBARI QUANTUM                          | 2          |            |
| . 10                      |            | . AB5934     | LUG BALE ARM                                              | 2          |            |
| . 11                      |            | . AB5935     | BOLT PIN RETAINER                                         | 2          |            |
| . 12                      |            | . AB5936     | PLATE PIN RETAINER                                        | 2          |            |
| . 13                      |            | . PB8049     | BUSH MB4030DU                                             | 12         | E3D        |
| . 14                      |            | . PJ3349     | BUSH MB3220DU                                             | 2          |            |
| . 15                      |            | . AB6238     | PLATE BEAM END - SPELTER SUPPORT                          | 1          |            |
| . 16                      |            | . AB5766     | PLATE BEAM END                                            | 3          | P2D        |
| . 17                      |            | . AB5767     | PIN TILT BEAM PIVOT                                       | 2          | P5G        |
| . 18                      |            | . AA5436     | LOCKPLATE TILTING PIN                                     | 2          | F12D       |
| . 19                      |            | . AC0271     | PLATE TILT BEAM STOP                                      | 2          |            |
| . 20                      |            | . AB6901     | BEND STIFFENER 1.5m BLACK POLYURETHANE                    | 1          |            |
| . 22                      |            | . AB6985     | PIN DIA 60 x 52 TAPPED                                    | 1          |            |
| . 23                      |            | . AB6986     | WASHER DIA 80 ENDPLATE SS                                 | 2          |            |
| . 24                      |            | . PA4760     | BOLT M12 x 20 SHCS SS A4 - 80                             | 4          | DUCT       |
| . 25                      |            | . PA0024     | WASHER M12 SPRING SS                                      | 4          | DUCT       |
| . 26                      |            | . PC6563     | BUSH MB2010DU                                             | 2          |            |
| . 27                      |            | . AB6992     | PIN DIA 20 x 23 LONG (NON-ROTATING)                       | 2          |            |
| . 28                      |            | . AB6993     | LOCKPLATE DIA 20 PIN (NON-ROTATING)                       | 2          |            |
| . 29                      |            | . AA6490     | BOLT M6 x 12 SHCS SS                                      | 4          | N6A        |
| . 30                      |            | . PB9764     | WASHER M6 SPRING SS                                       | 12         | DUCT       |
| . 31                      |            | . AB0646     | PIN LIFT SOCKET                                           | 1          | P8D        |
| . 32                      |            | . PE8258     | WASHER 31 / X 50 X 3 SS                                   | 2          | F12E       |
| . 33                      |            | . HRS1345385 | NUT M30 HEX SS / M30                                      | 2          | N11G       |
| . 34                      |            | . HRS1345387 | SPLIT PIN DIA. 6.3 x 40 SS                                | 2          | N13C       |
| . 35                      |            | . PA0222     | NUT M10 NYLOC SS                                          | 12         | DUCT       |
| . 36                      |            | . PA0528     | WASHER M10 FLAT SS                                        | 20         | DUCT       |
| . 37                      |            | . PA4789     | BOLT M10 x 45 SHCS SS A4 - 80                             | 4          | DUCT       |
| . 38                      |            | . AB6087     | BOLT M10 X 190 HX HD SS (A4-80)                           | 8          | N7D        |
| . 39                      |            | . AB5769     | BUSH FMB4026DU                                            | 4          | E3C        |
| . 40                      |            | . PB9268     | WASHER M8 SPRING SS                                       | 4          | DUCT       |
| . 41                      |            | . PB5117     | BOLT M8 x 25 SHCS SS A4-80                                | 4          | DUCT       |
| . 42                      |            | . PA0192     | BOLT M6 x 25 SHCS SS                                      | 8          | DUCT       |

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|---------------------|------------|---------------|-----------------------------------------------------|------------|------------|
| . 43                |            | . AB8161      | SLEEVE UMBILICAL SPELTER                            | 1          |            |
| 9                   |            | AB5969        | ASSEMBLY ELECTRICS - MBARI ROV                      | 1          |            |
| . 1                 |            | . AB5970      | ASSEMBLY JB 1 - MBARI ROV                           | 1          |            |
| . . 1               |            | . . AB6665    | ADAPTOR DORN FITTING (SIZE 2)                       | 15         |            |
| . . 2               |            | . . PB9936    | SEAL O-RING BS019 (20.35 X 1.78)                    | 15         | OR 1E      |
| . . 5               |            | . . PB9764    | WASHER M6 SPRING SS                                 | 30         | DUCT       |
| . . 9               |            | . . PD5645    | INSERT HELICOIL M6 x 1.5D SS                        | 30         | N13F       |
| . . 11              |            | . . OR 1040   | O RING CORD 3mm                                     | 2          | ELECT.     |
|                     |            |               | CLEAN RM                                            |            |            |
| . . 12              |            | . . PA4774    | BOLT M6 x 30 SHCS SS                                | 30         | DUCT       |
| . . 14              |            | . . PA0546    | WASHER M6 FLAT SS                                   | 30         | DUCT       |
| . . 20              |            | . . PF0342    | BOLT M4 x 16 SKT BUTTON HEAD SS                     | 8          | DUCT       |
| . . 21              |            | . . PC0164    | WASHER M4 SPRING SS                                 | 8          | DUCT       |
| . . 25              |            | . . PD5642    | INSERT HELICOIL M8 x 1.5D SS                        | 1          | N13F       |
| . . 29              |            | . . PA9812    | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)    | 30         | OR 1A      |
| . . 35              |            | . . PC4046    | CONNECTOR D / 9-WAY SHELL BLACK PLASTIC (RS484-789) | 1          | A3B        |
| . . 36              |            | . . PC4083    | CONNECTOR D 9-WAY PLUG                              | 1          | A2F        |
| . . 38              |            | . . PH2117    | TERMINAL PHOENIX MICRO 1.5 DOUBLE                   | 100        | N1B        |
| . . 39              |            | . . PH2118    | TERMINAL PHOENIX MICRO 1.5 END PLATE DD             | 10         | N1F        |
| . . 40              |            | . . PF4960    | TERMINAL PHOENIX MICRO 1.5 JUMPER BAR / 10-WAY      | 4          | N2C        |
| . . 41              |            | . . PG3913    | TERMINAL WIELAND END CLAMP                          | 4          | N1A        |
| . . 43              |            | . . PC1663    | FUSE 8A RESETTABLE                                  | 1          | A1E        |
| . . 44              |            | . . PB2751    | FUSE 1.1A RESETTABLE                                | 1          | A1E        |
| . . 45              |            | . . PB7878    | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK          | 1          | B4F        |
| . . 47              |            | . . PK3831    | TERMINAL FUSED / ENDCAP FEC593771                   | 2          | N2F        |
| . . 49              |            | . . PB7876    | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773               | 1          | B4F        |
| . . 51              |            | . . OM 5052   | SPACER M4 x 16 with Stud Style 2 / M4 x 16          | 6          | N5B        |
| . . 59              |            | . . AA4957    | CAPACITOR 22uf 25V TANT / FEC643-804                | 2          | A1D        |
| . . 70              |            | . . AA9979    | PCB WATER INGRESS SENSOR                            | 1          | C3E        |
| . . 77              |            | . . PC7138    | FUSE 0.1A RESETTABLE / RS517-6562                   | 2          | A1E        |
| . . 80              |            | . . PC4025    | SEAL O-RING BS018 (18.77 X 1.78)                    | 1          | OR 1E      |
| . . 81              |            | . . AB5963    | DRAWING ELECTRICAL JB 1 LAYOUT - MBARI              | 0          |            |
| . . 82              |            | . . AB5964    | DRAWING ELECTRICAL JB 1 WIRING - MBARI              | 0          |            |
| . . 83              |            | . . AB6442    | ASSEMBLY HOUSING JB1 - MBARI                        | 1          |            |
| . . . 4             |            | . . . AB3440  | COVER PERSPEX JB1                                   | 1          | G7C        |
| . . . 7             |            | . . . PD8587  | BOLT M6 x 80 SHCS SS                                | 25         | N6F        |
| . . . 8             |            | . . . AA0716  | BOLT M6 x 180 SHCS SS                               | 9          | N5A        |
| . . . 9             |            | . . . PE4415  | BOLT M5 x 35 SHCS A4 SS                             | 4          | DUCT       |
| . . . 10            |            | . . . PA0546  | WASHER M6 FLAT SS                                   | 53         | DUCT       |
| . . . 11            |            | . . . PB9764  | WASHER M6 SPRING SS                                 | 53         | DUCT       |
| . . . 12            |            | . . . PA9746  | WASHER M5 SPRING SS                                 | 4          | N5C        |
| . . . 13            |            | . . . PA4892  | WASHER M5 FLAT SS                                   | 4          | DUCT       |
| . . . 14            |            | . . . PD5646  | INSERT HELICOIL M6 x 2D SS                          | 34         | N13F       |
| . . . 15            |            | . . . PD5644  | INSERT HELICOIL M6 X 1D SS                          | 19         | N13G       |
| . . . 16            |            | . . . OR 1040 | O RING CORD 3mm                                     | 7          | ELECT.     |
|                     |            |               | CLEAN RM                                            |            |            |
| . . . 18            |            | . . . AA1643  | PLATE CURVETECH LOGO 5MM YELLOW                     | 2          | G12E       |
| . . . 19            |            | . . . PD5641  | INSERT HELICOIL / M8 X 1D SS                        | 4          | N13G       |
| . . . 20            |            | . . . PC4816  | BOLT M8 x 16 SHCS SS A4-80                          | 4          | DUCT       |
| . . . 21            |            | . . . PB9268  | WASHER M8 SPRING SS                                 | 4          | DUCT       |
| . . . 22            |            | . . . PA9812  | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)    | 28         | OR 1A      |
| . . . 24            |            | . . . AB6435  | HOUSING JB - MBARI                                  | 1          |            |
| . . . 25            |            | . . . AB6436  | PLATE BASE JB - MBARI                               | 1          |            |
| . . . 26            |            | . . . AB6434  | PLATE CONNECTORS JB1 - MBARI                        | 1          |            |
| . . . 27            |            | . . . AB6639  | PLATE SPACER JB 50mm                                | 1          |            |
| . . . 28            |            | . . . AB6646  | CLAMP RING JB                                       | 1          |            |
| . . . 29            |            | . . . PJ6626  | BOLT M6 x 110 SHCS SS                               | 19         | N6E        |
| . . . 30            |            | . . . LB 0100 | TECHNICIAN LABOUR                                   | 4          |            |
| . . 86              |            | . . AB7263    | ASSEMBLY WAGO JB1 - MBARI                           | 1          |            |
| . . . 1             |            | . . . PG7194  | FIELDBUS COUPLER MODBUS (RS485) 750-315             | 1          | A11B       |
| . . . 2             |            | . . . PJ6213  | FIELDBUS DIG OP/HS, 8-CH, 0.5A 24VDC / WAGO 750-530 | 2          | A11D       |
| . . . 3             |            | . . . PJ7377  | FIELDBUS DIG OP/HS 2-CH 2A 24V / WAGO 750-502       | 3          | A11D       |
| . . . 4             |            | . . . PH5363  | FIELDBUS ANL IP/SE 0-10V 4-CH 750-468               | 1          | A11E       |
| . . . 5             |            | . . . PG7454  | FIELDBUS END TERMINAL                               | 1          | A11F       |
| . . 87              |            | . . AB7267    | ASSEMBLY HARNESSES JB1 - MBARI                      | 1          |            |
| . . . 1             |            | . . . AB6857  | HARNESS GYROCOMPASS - MBARI                         | 1          |            |
| . . . 2             |            | . . . AB6306  | HARNESS JB POWER - MBARI                            | 1          |            |
| . . . 3             |            | . . . AB6307  | HARNESS JB 1 SIGNALS 52-WAY-MBARI                   | 1          |            |
| . . . 4             |            | . . . PF2054  | CLIP JUBILEE SIZE 1 (DIA 25-35) SS                  | 1          | H4E        |

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|---------------------|------------|-------------|-----------------------------------------------------|------------|------------|
| ...                 | 6          | AA9730      | INSERT 1-5/16"JIC / 90 X 1" R2/AT SS                | 1          |            |
| ...                 | 7          | AA2106      | INSERT 3/4"JIC / 90 X 1/2"R2AT SS                   | 1          | D12E       |
| ...                 | 8          | AA0886      | FITTING MMA / 1-5/16"UNF x 1-5/16"JIC SS            | 1          | D10D       |
| ...                 | 9          | PD9044      | SEAL O-RING BS916 (29.74 x 2.95) / 1-5/16"UNF       | 1          | OR 7E      |
| ...                 | 10         | WA3126      | SEAL O-RING BS912 (23.47 X 2.95) / 1-1/16"unf       | 1          | OR 7D      |
| ...                 | 11         | AB7943      | FITTING MMA 1-1/16"UNF x 3/4"JIC SS                 | 1          |            |
| ...                 | 12         | WA3078      | CLIP JUBILEE 19-44mm SS / PARKER - SS2000N          | 1          | H5D        |
| ...                 | 88         | AA8146      | SEMICONDUCTOR 24V TO 12V REG 1A                     | 1          | B4E        |
| ...                 | 89         | AB7887      | GLAND CAP DORN / SIZE 2                             | 15         | B1G        |
| ...                 | 90         | AB7888      | GLAND PLUG DORN / SIZE 2                            | 15         | B1G        |
| ...                 | 91         | AB8155      | GLAND PACKING DORN / SIZE 2                         | 1          |            |
| ...                 | 98         | AB8875      | ASSEMBLY CIRCUIT PCB - 5V REGULATOR                 | 1          |            |
| ...                 | 1          | PC2438      | TERMINAL PCB / 4-WAY BLOCK 5MM PITCH (FEC151-787)   | 2          | A4F        |
| ...                 | 2          | AB1397      | MODULE SIDE PHOENIX / FEC 177-165                   | 2          | N2F        |
| ...                 | 3          | AB1398      | MODULE BASE PHOENIX / FEC 177-166                   | 1          | N2F        |
| ...                 | 4          | AB1399      | MODULE FOOT PHOENIX / FEC 177-169                   | 2          | N2F        |
| ...                 | 5          | AA0900      | LED INDICATOR, RED 5V DC                            | 1          | A4F        |
| ...                 | 6          | OM 5015     | LED GREEN                                           | 1          | A4F        |
| ...                 | 7          | AB6258      | PSU DC-DC CONVERTOR 5V 40W                          | 1          | A5G        |
| ...                 | 99         | PK3575      | RELAY DC SOLID STATE DC INPUT                       | 4          | A5E/G      |
| ...                 | 100        | AA4904      | CABLE CAT 5E BLUE 2.0M / FEC 727-9474               | 1          | B3D        |
| ...                 | 101        | PF4949      | FUSE HOLDER 20mm LEVER                              | 10         | N1E        |
| ...                 | 2          | AB5971      | ASSEMBLY JB 2 - MBARI ROV                           | 1          |            |
| ...                 | 1          | AB6665      | ADAPTOR DORN FITTING (SIZE 2)                       | 16         |            |
| ...                 | 2          | PB9936      | SEAL O-RING BS019 (20.35 X 1.78)                    | 16         | OR 1E      |
| ...                 | 5          | PB9764      | WASHER M6 SPRING SS                                 | 30         | DUCT       |
| ...                 | 9          | PD5645      | INSERT HELICOIL M6 x 1.5D SS                        | 30         | N13F       |
| ...                 | 11         | OR 1040     | O RING CORD 3mm                                     | 2          | ELECT.     |
|                     |            |             | CLEAN RM                                            |            |            |
| ...                 | 12         | PA4774      | BOLT M6 x 30 SHCS SS                                | 30         | DUCT       |
| ...                 | 14         | PA0546      | WASHER M6 FLAT SS                                   | 30         | DUCT       |
| ...                 | 20         | PF0342      | BOLT M4 x 16 SKT BUTTON HEAD SS                     | 8          | DUCT       |
| ...                 | 21         | PC0164      | WASHER M4 SPRING SS                                 | 8          | DUCT       |
| ...                 | 25         | PD5642      | INSERT HELICOIL M8 x 1.5D SS                        | 1          | N13F       |
| ...                 | 29         | PA9812      | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)    | 30         | OR 1A      |
| ...                 | 35         | PC4046      | CONNECTOR D / 9-WAY SHELL BLACK PLASTIC (RS484-789) | 1          | A3B        |
| ...                 | 36         | PC4083      | CONNECTOR D 9-WAY PLUG                              | 1          | A2F        |
| ...                 | 38         | PH2117      | TERMINAL PHOENIX MICRO 1.5 DOUBLE                   | 120        | N1B        |
| ...                 | 39         | PH2118      | TERMINAL PHOENIX MICRO 1.5 END PLATE DD             | 10         | N1F        |
| ...                 | 40         | PF4960      | TERMINAL PHOENIX MICRO 1.5 JUMPER BAR / 10-WAY      | 4          | N2C        |
| ...                 | 41         | PG3913      | TERMINAL WIELAND END CLAMP                          | 4          | N1A        |
| ...                 | 43         | PC1663      | FUSE 8A RESETTABLE                                  | 1          | A1E        |
| ...                 | 44         | PB2751      | FUSE 1.1A RESETTABLE                                | 7          | A1E        |
| ...                 | 45         | PB7878      | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK          | 1          | B4F        |
| ...                 | 47         | PK3831      | TERMINAL FUSED / ENDCAP FEC593771                   | 2          | N2F        |
| ...                 | 49         | PB7876      | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773               | 1          | B4F        |
| ...                 | 51         | OM 5052     | SPACER M4 x 16 with Stud Style 2 / M4 x 16          | 6          | N5B        |
| ...                 | 59         | AA4957      | CAPACITOR 22uf 25V TANT / FEC643-804                | 1          | A1D        |
| ...                 | 60         | PK3575      | RELAY DC SOLID STATE DC INPUT                       | 1          | A5E/G      |
| ...                 | 70         | AA9979      | PCB WATER INGRESS SENSOR                            | 1          | C3E        |
| ...                 | 87         | AB5965      | DRAWING ELECTRICAL JB 2 LAYOUT - MBARI              | 0          |            |
| ...                 | 88         | AB5966      | DRAWING ELECTRICAL JB 2 WIRING - MBARI              | 0          |            |
| ...                 | 89         | AB6443      | ASSEMBLY HOUSING JB2 - MBARI                        | 1          |            |
| ...                 | 4          | AB3440      | COVER PERSPEX JB1                                   | 1          | G7C        |
| ...                 | 5          | AA0716      | BOLT M6 x 180 SHCS SS                               | 9          | N5A        |
| ...                 | 7          | PD8587      | BOLT M6 x 80 SHCS SS                                | 25         | N6F        |
| ...                 | 9          | PE4415      | BOLT M5 x 35 SHCS A4 SS                             | 4          | DUCT       |
| ...                 | 10         | PA0546      | WASHER M6 FLAT SS                                   | 53         | DUCT       |
| ...                 | 11         | PB9764      | WASHER M6 SPRING SS                                 | 53         | DUCT       |
| ...                 | 12         | PA9746      | WASHER M5 SPRING SS                                 | 4          | N5C        |
| ...                 | 13         | PA4892      | WASHER M5 FLAT SS                                   | 4          | DUCT       |
| ...                 | 14         | PD5646      | INSERT HELICOIL M6 x 2D SS                          | 34         | N13F       |
| ...                 | 15         | PD5644      | INSERT HELICOIL M6 X 1D SS                          | 19         | N13G       |
| ...                 | 16         | OR 1040     | O RING CORD 3mm                                     | 7          | ELECT.     |
|                     |            |             | CLEAN RM                                            |            |            |
| ...                 | 18         | AA1643      | PLATE CURVETECH LOGO 5MM YELLOW                     | 2          | G12E       |
| ...                 | 19         | PD5641      | INSERT HELICOIL / M8 X 1D SS                        | 4          | N13G       |
| ...                 | 20         | PC4816      | BOLT M8 x 16 SHCS SS A4-80                          | 4          | DUCT       |
| ...                 | 21         | PB9268      | WASHER M8 SPRING SS                                 | 4          | DUCT       |

Part: C903RV  
Description: Tiburon II ROV System - RV  
Size:

| <u>Eng.<br/>No.</u> | <u>Ref</u> | <u>Part</u>  | <u>Description / Size</u>                            | <u>Qty</u> | <u>Bin</u> |
|---------------------|------------|--------------|------------------------------------------------------|------------|------------|
| .. . 22             |            | .. . PA9812  | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)     | 28         | OR 1A      |
| .. . 24             |            | .. . AB6435  | HOUSING JB - MBARI                                   | 1          |            |
| .. . 25             |            | .. . AB6436  | PLATE BASE JB - MBARI                                | 1          |            |
| .. . 26             |            | .. . AB6438  | PLATE CONNECTORS JB2 - MBARI                         | 1          |            |
| .. . 27             |            | .. . AB6639  | PLATE SPACER JB 50mm                                 | 1          |            |
| .. . 28             |            | .. . AB6646  | CLAMP RING JB                                        | 1          |            |
| .. . 29             |            | .. . PJ6626  | BOLT M6 x 110 SHCS SS                                | 19         | N6E        |
| .. . 30             |            | .. . LB 0100 | TECHNICIAN LABOUR                                    | 4          |            |
| .. . 91             |            | .. . PB2750  | FUSE 0.5A RESETTABLE                                 | 1          | A1E        |
| .. . 92             |            | .. . PB5233  | FUSE 1.85A RESETTABLE                                | 4          | A1E        |
| .. . 94             |            | .. . PC6513  | FUSE 4A RESETTABLE                                   | 1          | A1E        |
| .. . 95             |            | .. . PB6471  | TERMINAL ENTRELEC FUSED PULL UP                      | 14         | N1G        |
| .. . 96             |            | .. . AB7264  | ASSEMBLY WAGO JB2 - MBARI                            | 1          |            |
| .. . 1              |            | .. . PG7194  | FIELDBUS COUPLER MODBUS (RS485) 750-315              | 1          | A11B       |
| .. . 2              |            | .. . PJ6213  | FIELDBUS DIG OP/HS, 8-CH, 0.5A 24VDC / WAGO 750-530  | 1          | A11D       |
| .. . 3              |            | .. . PJ7377  | FIELDBUS DIG OP/HS 2-CH 2A 24V / WAGO 750-502        | 5          | A11D       |
| .. . 4              |            | .. . PH5363  | FIELDBUS ANL IP/SE 0-10V 4-CH 750-468                | 1          | A11E       |
| .. . 5              |            | .. . PG7454  | FIELDBUS END TERMINAL                                | 1          | A11F       |
| .. . 6              |            | .. . PJ7378  | FIELDBUS PSU 24VDC 10A 5VDC 2A 750-613               | 1          | A11C       |
| .. . 97             |            | .. . AB7291  | ASSEMBLY HARNESSSES JB2 - MBARI                      | 1          |            |
| .. . 1              |            | .. . AB6861  | HARNESS HDTV POWER - MBARI / CABLE SUPPLIED BY MBARI | 1          |            |
| .. . 2              |            | .. . AB6306  | HARNESS JB POWER - MBARI                             | 1          |            |
| .. . 3              |            | .. . AB6308  | HARNESS JB 2 SIGNALS 52-WAY-MBARI                    | 1          |            |
| .. . 4              |            | .. . PF2054  | CLIP JUBILEE SIZE 1 (DIA 25-35) SS                   | 2          | H4E        |
| .. . 5              |            | .. . PE3281  | CLIP JUBILEE / SIZE 0 (DIA 16-22) SS                 | 1          |            |
| .. . 6              |            | .. . AA9730  | INSERT 1-5/16"JIC / 90 X 1" R2/AT SS                 | 1          |            |
| .. . 7              |            | .. . AA2106  | INSERT 3/4"JIC / 90 X 1/2"R2AT SS                    | 1          | D12E       |
| .. . 8              |            | .. . AA0886  | FITTING MMA / 1-5/16"UNF x 1-5/16"JIC SS             | 1          | D10D       |
| .. . 9              |            | .. . PD9044  | SEAL O-RING BS916 (29.74 x 2.95) / 1-5/16"UNF        | 1          | OR 7E      |
| .. . 10             |            | .. . WA3126  | SEAL O-RING BS912 (23.47 X 2.95) / 1-1/16"unf        | 1          | OR 7D      |
| .. . 11             |            | .. . AB7943  | FITTING MMA 1-1/16"UNF x 3/4"JIC SS                  | 1          |            |
| .. . 99             |            | .. . AA8146  | SEMICONDUCTOR 24V TO 12V REG 1A                      | 1          | B4E        |
| .. . 100            |            | .. . AB7887  | GLAND CAP DORN / SIZE 2                              | 16         | B1G        |
| .. . 101            |            | .. . AB7888  | GLAND PLUG DORN / SIZE 2                             | 16         | B1G        |
| .. . 102            |            | .. . AB8875  | ASSEMBLY CIRCUIT PCB - 5V REGULATOR                  | 1          |            |
| .. . 1              |            | .. . PC2438  | TERMINAL PCB / 4-WAY BLOCK 5MM PITCH (FEC151-787)    | 2          | A4F        |
| .. . 2              |            | .. . AB1397  | MODULE SIDE PHOENIX / FEC 177-165                    | 2          | N2F        |
| .. . 3              |            | .. . AB1398  | MODULE BASE PHOENIX / FEC 177-166                    | 1          | N2F        |
| .. . 4              |            | .. . AB1399  | MODULE FOOT PHOENIX / FEC 177-169                    | 2          | N2F        |
| .. . 5              |            | .. . AA0900  | LED INDICATOR, RED 5V DC                             | 1          | A4F        |
| .. . 6              |            | .. . OM 5015 | LED GREEN                                            | 1          | A4F        |
| .. . 7              |            | .. . AB6258  | PSU DC-DC CONVERTOR 5V 40W                           | 1          | A5G        |
| .. . 3              |            | .. . AB5972  | ASSEMBLY LAMP DIMMING JB - MBARI ROV                 | 1          |            |
| .. . 1              |            | .. . AA3049  | PLATE, LAMP DIMMING MOUNT                            | 1          |            |
| .. . 2              |            | .. . AA3050  | HOUSING, LAMP DIMMING                                | 1          | G11F       |
| .. . 3              |            | .. . AB7271  | FACEPLATE LAMP DIMMING BOX MBARI                     | 1          |            |
| .. . 4              |            | .. . AA1567  | PLATE PERSPEX PCB MOUNT                              | 1          | G6E        |
| .. . 5              |            | .. . AB6665  | ADAPTOR DORN FITTING (SIZE 2)                        | 10         |            |
| .. . 6              |            | .. . PB9936  | SEAL O-RING BS019 (20.35 X 1.78)                     | 10         | OR 1E      |
| .. . 9              |            | .. . OR 1040 | O RING CORD 3mm                                      | 2          | ELECT.     |
|                     |            |              | CLEAN RM                                             |            |            |
| .. . 10             |            | .. . PD8587  | BOLT M6 x 80 SHCS SS                                 | 26         | N6F        |
| .. . 11             |            | .. . PA0546  | WASHER M6 FLAT SS                                    | 26         | DUCT       |
| .. . 12             |            | .. . PB9764  | WASHER M6 SPRING SS                                  | 26         | DUCT       |
| .. . 13             |            | .. . AA9979  | PCB WATER INGRESS SENSOR                             | 1          | C3E        |
| .. . 14             |            | .. . AB2033  | MOUNTING SPACER M4 X 16 RS601-170                    | 4          | N3G        |
| .. . 15             |            | .. . PA5996  | BOLT M3 x 6 PAN HEAD SS                              | 1          | N4A        |
| .. . 16             |            | .. . PB5023  | BOLT M5 x 25 SHCS SS                                 | 4          | DUCT       |
| .. . 17             |            | .. . PA4892  | WASHER M5 FLAT SS                                    | 4          | DUCT       |
| .. . 18             |            | .. . PB5858  | BOLT M4 x 25 SHCS SS                                 | 4          | DUCT       |
| .. . 19             |            | .. . PC0164  | WASHER M4 SPRING SS                                  | 6          | DUCT       |
| .. . 20             |            | .. . AA1467  | PCB LAMP DIMMING 6 CHANNEL                           | 1          | C6G        |
| .. . 23             |            | .. . PD8586  | BOLT M4 x 10 PAN HEAD SS                             | 2          | DUCT       |
| .. . 24             |            | .. . AA0383  | FITTING MMA / 1-1/16"UNF x 1-1/16"JIC SS             | 1          |            |
| .. . 25             |            | .. . WA3126  | SEAL O-RING BS912 (23.47 X 2.95) / 1-1/16"unf        | 1          | OR 7D      |
| .. . 26             |            | .. . AB7272  | INSERT 1-1/16"JIC 90 x 3/4"R2/R8 SS                  | 1          |            |
| .. . 27             |            | .. . PF2054  | CLIP JUBILEE SIZE 1 (DIA 25-35) SS                   | 2          | H4E        |
| .. . 28             |            | .. . PD5645  | INSERT HELICOIL M6 x 1.5D SS                         | 26         | N13F       |
| .. . 29             |            | .. . PD5642  | INSERT HELICOIL M8 x 1.5D SS                         | 1          | N13F       |



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|---------------------|------------|--------------|-----------------------------------------------------|------------|------------|
| . . 30              |            | . . AB5967   | DRAWING LAMP DIMMING JB WIRING - MBARI              | 0          |            |
| . . 34              |            | . . PA9812   | SEAL O-RING BS009 NBR90 (MINI 4) / (5.28 X 1.78)    | 26         | OR 1A      |
| . . 35              |            | . . PF4721   | TERMINAL PHOENIX MICRO 1.5 / 31 00 30 5             | 18         | N1F        |
| . . 36              |            | . . PF4723   | TERMINAL PHOENIX / MICRO END CLAMP RS446-0844       | 2          | A2B        |
| . . 37              |            | . . PB3642   | TERMINAL RAIL MINIATURE TS15                        | 0          | BAY 3      |
|                     |            |              |                                                     |            | SIDE       |
| . . 38              |            | . . PF4724   | TERMINAL PHOENIX MICRO 1.5 END PLATE                | 2          | N1F        |
| . . 39              |            | . . AB6313   | HARNESS LAMP DIMMER - MBARI                         | 1          |            |
| . . 40              |            | . . AB7887   | GLAND CAP DORN / SIZE 2                             | 10         | B1G        |
| . . 41              |            | . . AB7888   | GLAND PLUG DORN / SIZE 2                            | 10         | B1G        |
| . 5                 |            | . AB6314     | ASSEMBLY POD - MBARI ROV                            | 1          |            |
| . . 5               |            | . . OV 4407  | VEE CLAMP 331MM                                     | 2          | H5C        |
| . . 6               |            | . . PC6170   | SEAL O-RING / 259.30 X 5.7                          | 2          | OR 15E     |
| . . 7               |            | . . PC6171   | SEAL O-RING / 279.3 x 5.7                           | 2          | OR 15F     |
| . . 10              |            | . . PC6172   | SEAL ANTI-EXTRUSION RING 259.3 x 5.7                | 2          | OR 16A     |
| . . 14              |            | . . AB6967   | CONNECTOR DUMMY SEALING PLUG / MINM-DSP             | 3          |            |
| . . 15              |            | . . PC2386   | BOLT M6 x 16 SHCS SS                                | 28         | DUCT       |
| . . 16              |            | . . PB9764   | WASHER M6 SPRING SS                                 | 28         | DUCT       |
| . . 17              |            | . . PB9268   | WASHER M8 SPRING SS                                 | 8          | DUCT       |
| . . 18              |            | . . PD5646   | INSERT HELICOIL M6 x 2D SS                          | 8          | N13F       |
| . . 19              |            | . . PB5117   | BOLT M8 x 25 SHCS SS A4-80                          | 8          | DUCT       |
| . . 20              |            | . . PA4761   | BOLT M4 x 16 SHCS SS                                | 4          | DUCT       |
| . . 21              |            | . . PC0164   | WASHER M4 SPRING SS                                 | 4          | DUCT       |
| . . 22              |            | . . AB0642   | PIN POD OPEN                                        | 4          | G8D        |
| . . 23              |            | . . AB6870   | ASSEMBLY VACUUM PORT /                              | 1          |            |
| . . . 1             |            | . . . AB6871 | FLANGE VACUUM PORT                                  | 1          |            |
| . . . 2             |            | . . . AB6872 | COVER VACUUM PORT                                   | 1          |            |
| . . . 3             |            | . . . AA5130 | SEAL ANTI-EXTRUSION / JW 150-020 FOR BS020 O-RING   | 1          | OR 13D     |
| . . . 4             |            | . . . PJ9452 | VALVE RELIEF / SWAGelok SS-4CP21                    | 1          |            |
| . . . 5             |            | . . . PB5194 | SEAL O-RING BS020 HRS306 PISTON / 21.95 X 1.78      | 1          | OR 1F      |
| . . . 6             |            | . . . PK0496 | SEAL O-RING / BS123 NBR80 (29.82 X 2.62)            | 1          |            |
| . . . 7             |            | . . . PC4027 | SEAL O-RING / BS022 (25.12 x 1.78)                  | 1          | OR 1F      |
| . . . 8             |            | . . . AB6873 | SEAL O-RING BS124 (31.42 x 2.62)                    | 1          | OR 18D     |
| . . . 9             |            | . . . AA9976 | CONNECTOR 6 WAY SPRING TERM RS357-9515              | 1          | A1C        |
| . . . 10            |            | . . . AA9977 | CONNECTOR 6 WAY PCB HEADER RS357-9571               | 1          | A1C        |
| . . 24              |            | . . AB6316   | ASSEMBLY POD ELECTRONICS - MBARI ROV                | 1          |            |
| . . . 1             |            | . . . AB7601 | FABRICATION POD CHASSIS / MBARI                     | 1          |            |
| . . . 3             |            | . . . AA0622 | RING POD SLIDER                                     | 1          | G4D        |
| . . . 4             |            | . . . AA0804 | SENSOR FIBRE OPTIC GYRO                             | 1          | KC 1D      |
| . . . 6             |            | . . . AA0817 | CIRCUIT LIM 110V / IR145Y-421                       | 2          | A8C        |
| . . . 7             |            | . . . PG3465 | RELAY 24VDC DPCO FINDER 4462 7024 4000              | 26         | A5F        |
| . . . 10            |            | . . . AA0872 | PSU 24V DC to DC 400W                               | 1          | A9E        |
| . . . 11            |            | . . . PJ2017 | RECTIFIER BRIDGE 50A 200V                           | 2          | A2B        |
| . . . 12            |            | . . . PE9113 | CAPACITOR CLIP 51MM VERTICAL                        | 3          | A2A        |
| . . . 14            |            | . . . PK3718 | CAPACITOR 47000uF 40V                               | 3          | A3B        |
| . . . 17            |            | . . . PB6471 | TERMINAL ENTRELEC FUSED PULL UP                     | 45         | N1G        |
| . . . 19            |            | . . . AA1109 | CABLE CONSOLE (PAIR) 100m                           | 1          | M9B+D      |
| . . . 27            |            | . . . PB7878 | RESISTOR 10K MFR4 0.5W 1% / 1x 50 PER PACK          | 1          | B4F        |
| . . . 30            |            | . . . PC0892 | TERMINAL ENTRELEC 25mm HIGH CURRENT                 | 6          | N2E        |
| . . . 31            |            | . . . PC0893 | TERMINAL ENTRELEC HIGH CURRENT SPACER               | 7          | N2E        |
| . . . 32            |            | . . . PC0894 | TERMINAL ENTRELEC HIGH CURRENT COVER                | 3          | N1G        |
| . . . 33            |            | . . . PK3777 | TERMINAL FUSE HOLDER BLADE                          | 1          | N3C        |
| . . . 34            |            | . . . PK3834 | FUSE 20A BLADE (AUTO)                               | 1          | B5F        |
| . . . 36            |            | . . . AA2097 | CONNECTOR KIT 24828 FOR PSU AA0872                  | 1          | A2F        |
| . . . 39            |            | . . . PC4083 | CONNECTOR D 9-WAY PLUG                              | 1          | A2F        |
| . . . 40            |            | . . . AA1803 | PT100 ELEMENT / 10mm LONG (RS290-5070)              | 1          | A1C        |
| . . . 42            |            | . . . PB2751 | FUSE 1.1A RESETTABLE                                | 1          | A1E        |
| . . . 43            |            | . . . PC6087 | FUSE 0.9A RESETTABLE                                | 5          | A1E        |
| . . . 45            |            | . . . PB7876 | RESISTOR 4K7 / MFR4 0.5W 1% RS149-773               | 1          | B4F        |
| . . . 46            |            | . . . PC6511 | FUSE 2.5A RESETTABLE                                | 3          | A1E        |
| . . . 48            |            | . . . PG3847 | RELAY TIMER TELECON 2PCO                            | 1          | A5E        |
| . . . 49            |            | . . . PH2117 | TERMINAL PHOENIX MICRO 1.5 DOUBLE                   | 250        | N1B        |
| . . . 50            |            | . . . PH2118 | TERMINAL PHOENIX MICRO 1.5 END PLATE DD             | 40         | N1F        |
| . . . 53            |            | . . . PC4046 | CONNECTOR D / 9-WAY SHELL BLACK PLASTIC (RS484-789) | 1          | A3B        |
| . . . 55            |            | . . . PF4960 | TERMINAL PHOENIX MICRO 1.5 JUMPER BAR / 10-WAY      | 10         | N2C        |
| . . . 56            |            | . . . PE2582 | CONNECTOR SMB 50 OHM R/A PLUG RG174A/U              | 12         | B5E        |
| . . . 64            |            | . . . PC2865 | TRUNKING CLOSED SLOT 25 x 20                        | 11         | L5C        |
| . . . 65            |            | . . . PK0968 | TERMINAL END CLAMP (WIELAND)                        | 2          | N2E        |
| . . . 66            |            | . . . PB3642 | TERMINAL RAIL MINIATURE TS15                        | 1          | BAY 3      |
|                     |            |              |                                                     |            | SIDE       |
| . . . 67            |            | . . . AA2505 | DIN RAIL TOP HAT 35mm x 7.5mm x 1M                  | 2          | BAY 3      |

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|---------------------|------------|-------------|-----------------------------------------------------------------------|------------|------------|
|                     |            |             |                                                                       |            | SIDE       |
| ...                 | 68         | ...         | PC6621 TRUNKING CLOSED / SLOT 50 X 25 CRITCHLEY BETADUCT 09           | 1          | L5F        |
| ...                 | 69         | ...         | PG3913 TERMINAL WIELAND END CLAMP                                     | 2          | N1A        |
| ...                 | 70         | ...         | PC2229 TERMINAL ENTRELEC 10MM FUSED END COVER                         | 2          | N2E        |
| ...                 | 71         | ...         | AA2550 TRUNKING CLOSED SLOT 15 X 15 / RS 544-342                      | 1          | L5G        |
| ...                 | 73         | ...         | PB2749 TERMINAL PCB 3-WAY 5MM PITCH 90deg                             | 2          | A1F        |
| ...                 | 78         | ...         | AA9979 PCB WATER INGRESS SENSOR                                       | 2          | C3E        |
| ...                 | 79         | ...         | AB0854 CIRCUIT PCB RESPONDER TRIGGER INTERFACE                        | 1          | C3G        |
| ...                 | 80         | ...         | AB1202 FIBRE OPTIC SS COUPLER / 200-350-SM                            | 1          | C9C        |
| ...                 | 85         | ...         | AA7512 PLATE POWER SUPPLY COVER POD                                   | 1          | G6F        |
| ...                 | 87         | ...         | AB6315 DRAWING ELECTRICAL POD WIRING - MBARI                          | 0          |            |
| ...                 | 88         | ...         | AB6317 DRAWING ELECTRICAL POD LAYOUT - MBARI                          | 0          |            |
| ...                 | 89         | ...         | AB6962 ASSEMBLY WAGO - MBARI POD                                      | 1          |            |
| ...                 | 1          | ...         | PG7194 FIELDBUS COUPLER MODBUS (RS485) 750-315                        | 1          | A11B       |
| ...                 | 2          | ...         | PJ6214 FIELDBUS I/O MODULE DIG IP, 8-CH, 24VDC                        | 1          | A11D       |
| ...                 | 3          | ...         | PJ6213 FIELDBUS DIG OP/HS, 8-CH, 0.5A 24VDC / WAGO 750-530            | 11         | A11D       |
| ...                 | 4          | ...         | PH5603 FIELDBUS REL OP/CO, 2-CH, 0.5A 750-514                         | 1          | A11E       |
| ...                 | 5          | ...         | PH5363 FIELDBUS ANL IP/SE 0-10V 4-CH 750-468                          | 1          | A11E       |
| ...                 | 6          | ...         | AB6241 FIELDBUS WAGO ANL IP/DIFF 0-10V AC/DC / 2-CH                   | 2          |            |
| ...                 | 7          | ...         | PJ6086 FIELDBUS ANL IP/PT100 2-CH                                     | 1          | A11D       |
| ...                 | 8          | ...         | PG7454 FIELDBUS END TERMINAL                                          | 1          | A11F       |
| ...                 | 9          | ...         | AB6844 FIELDBUS WAGO ANL OP 4-20mA 4-CH                               | 1          | A11F       |
| ...                 | 90         | ...         | AB6964 PLATE CAP COVER POD                                            | 1          |            |
| ...                 | 91         | ...         | AB6840 PSU 48V DC to DC 300W                                          | 2          |            |
| ...                 | 92         | ...         | AA9038 FUSE AUTO RESET 5A 240V AC                                     | 2          | A5E        |
| ...                 | 93         | ...         | AB6971 FUSE - 1.6A RESETTABLE - 72V                                   | 1          | A2B        |
| ...                 | 94         | ...         | AB6972 FUSE 0.2A - RESETTABLE - 72V                                   | 1          | A2B        |
| ...                 | 95         | ...         | PC6088 FUSE 6A RESETTABLE                                             | 6          | A1E        |
| ...                 | 96         | ...         | AB3421 FUSE AUTO RESET 10A 240V AC                                    | 5          | A3E        |
| ...                 | 97         | ...         | PB9176 RECTIFIER BRIDGE / 25A 400V GBPC2504 (FEC 954-9390             | 1          |            |
| ...                 | 98         | ...         | AB6838 CAPACITOR 4700uF 250V                                          | 2          |            |
| ...                 | 99         | ...         | AB6839 CAPACITOR CLIP 65MM                                            | 2          |            |
| ...                 | 100        | ...         | AA3503 SENSOR PRESSURE 15-PSI SCX15AN                                 | 1          | B5F        |
| ...                 | 101        | ...         | AA5018 DC/DC SIGNAL CONDITIONER                                       | 1          | B2F        |
| ...                 | 102        | ...         | AB6957 SENSOR HUMIDITY                                                | 1          |            |
| ...                 | 103        | ...         | PC1663 FUSE 8A RESETTABLE                                             | 3          | A1E        |
| ...                 | 104        | ...         | AB7248 FUSE - 50mA RESETTABLE - 60V                                   | 3          | A2B        |
| ...                 | 105        | ...         | AA9039 FUSE AUTO RESET 7A 240V AC                                     | 16         | A5E        |
| ...                 | 107        | ...         | PB2750 FUSE 0.5A RESETTABLE                                           | 2          | A1E        |
| ...                 | 109        | ...         | AA4957 CAPACITOR 22uf 25V TANT / FEC643-804                           | 1          | A1D        |
| ...                 | 110        | ...         | PC7138 FUSE 0.1A RESETTABLE / RS517-6562                              | 1          | A1E        |
| ...                 | 112        | ...         | AB7542 ASSEMBLY SIGNALS ISOLATION BOARD                               | 1          |            |
| ...                 | 1          | ...         | AB7543 PCB RS232 SIGNALS ISOLATION BOARD                              | 2          | C6D        |
| ...                 | 2          | ...         | AB7544 PCB RS485 SIGNALS ISOLATION                                    | 2          | C6D        |
| ...                 | 3          | ...         | AB7545 PCB VIDEO ISOLATION BOARD                                      | 1          | C6D        |
| ...                 | 4          | ...         | AB7546 PCB SIGNALS ISOLATION MOTHERBOARD                              | 1          |            |
| ...                 | 113        | ...         | AA1716 SEMICONDUCTOR 24V TO 5V REG 1A                                 | 1          | B4E        |
| ...                 | 114        | ...         | AB8517 CONNECTOR D TYPE 62 WAY PLUG (                                 | 1          | B4E        |
| ...                 | 115        | ...         | AB8518 64-WAY RIBBON CABLE                                            | 1          | B3G        |
| ...                 | 117        | ...         | AB8753 RELAY SOCKET BLUE HOUSING + METAL CLIP / FINDER 95.65 & 095.71 | 26         | A5E        |
| ...                 | 119        | ...         | AB8797 CONNECTOR D TYPE HOUSING - 62 WAY / HDP20/22 SIZE 4            | 1          | A3G        |
| ...                 | 120        | ...         | PK2854 CABLE RJ45 / CONN FIELDPATCH HARTING 0945 151 1100             | 1          | A12F       |
| ...                 | 121        | ...         | PH9224 CONNECTOR 8-WAY / RJ45 DATA COMS PLUG (RS455-258)              | 3          | A2B        |
| ...                 | 122        | ...         | AA7510 CONNECTOR FOCAL 8-WAY 43025-0800                               | 8          | B4E        |
| ...                 | 123        | ...         | AB1864 CRIMP FOR AB1863 RS173-3284                                    | 64         | B4E        |
| ...                 | 124        | ...         | AB8843 CABLE CRIMP PIN MALE                                           | 62         | A3G        |
| ...                 | 25         | ...         | AB6391 TUBE PRESSURE VESSEL 4000M                                     | 1          |            |
| ...                 | 26         | ...         | AB6390 FACEPLATE 4000M POD                                            | 1          |            |
| ...                 | 27         | ...         | AB6392 ENDPLATE PRESSURE VESSEL 4000M                                 | 1          |            |
| ...                 | 28         | ...         | AB6961 CONNECTOR - PIGTAILS FOR JB POWER / MINK-10-FCR-P              | 2          |            |
| ...                 | 29         | ...         | AB6311 CONNECTOR - PIGTAILS FOR JB1 SIG / MINO-52-FCR-P               | 1          |            |
| ...                 | 30         | ...         | AB6594 CONNECTOR - PIGTAILS FOR TOOL SLED / MINM-26-FCR-P             | 1          |            |
| ...                 | 31         | ...         | AB6958 CONNECTOR / MINM-12-FCR-P                                      | 1          |            |
| ...                 | 32         | ...         | AB6959 CONNECTOR - PIGTAILS ADDED FOR VT / MING-10-FCR-P              | 2          |            |

Part: C903RV  
 Description: Tiburon II ROV System - RV  
 Size:

| <u>Eng.<br/>No.</u> | <u>Ref</u> | <u>Part</u>    | <u>Description / Size</u>                                | <u>Qty</u> | <u>Bin</u> |
|---------------------|------------|----------------|----------------------------------------------------------|------------|------------|
| . . 33              |            | . . AB6960     | CONNECTOR - PIGTAILS ADDED FOR POD POWER / MINO-44-FCR-P | 1          |            |
| . . 34              |            | . . AB8191     | CONNECTOR - PIGTAILS FOR JB2 SIG / MINO-52-FCR-P         | 1          |            |
| . . 35              |            | . . AB8192     | CONNECTOR - PIGTAILS FOR LAMP DIMMER / MINO-26-FCR-P     | 1          |            |
| . . 36              |            | . . AB8878     | CONNECTOR DUMMY SEALING PLUG / MINK-DSP                  | 2          |            |
| . . 37              |            | . . AB8879     | CONNECTOR DUMMY SEALING PLUG / MINO-DSP                  | 3          |            |
| . . 38              |            | . . AB8880     | CONNECTOR DUMMY SEALING PLUG / MING-DSP                  | 2          |            |
| . . 39              |            | . . AB8881     | CONNECTOR DUMMY SEALING PLUG / MINP-DSP                  | 1          |            |
| . 6                 |            | . AB6614       | ASSEMBLY UMBILICAL TERMINATION - MBARI                   | 1          |            |
| . . 1               |            | . . AB8182     | ADAPTOR 5/8"-18 UNF BCR                                  | 2          |            |
| . . 2               |            | . . AB2953     | BLANKING PLUG 5/8" ELEC SS                               | 2          | D3E        |
| . . 3               |            | . . AB6714     | ASSEMBLY COVERS UMB TERM /                               | 1          |            |
| . . . 1             |            | . . . AB6718   | COVER TRANSFORMER ELEC TERM /                            | 1          |            |
| . . . 2             |            | . . . AB6719   | HOUSING ELECTRICAL TERMINATION /                         | 1          |            |
| . . . 3             |            | . . . AB6720   | COVER UMBILICAL TERMINATION /                            | 1          |            |
| . . . 4             |            | . . . AB6721   | CLAMP UMBILICAL TERMINATION                              | 1          |            |
| . . . 5             |            | . . . AA1643   | PLATE CURVETECH LOGO 5MM YELLOW                          | 2          | G12E       |
| . . . 7             |            | . . . OR 1040  | O RING CORD 3mm                                          | 3          | ELECT.     |
|                     |            |                | CLEAN RM                                                 |            |            |
| . . . 8             |            | . . . PC0067   | BOLT M6 x 130 SHCS SS                                    | 22         | N6B        |
| . . . 10            |            | . . . PA0546   | WASHER M6 FLAT SS                                        | 22         | DUCT       |
| . . . 11            |            | . . . PB9764   | WASHER M6 SPRING SS                                      | 38         | DUCT       |
| . . . 19            |            | . . . PB5023   | BOLT M5 x 25 SHCS SS                                     | 4          | DUCT       |
| . . . 20            |            | . . . PA4892   | WASHER M5 FLAT SS                                        | 12         | DUCT       |
| . . . 21            |            | . . . PA9746   | WASHER M5 SPRING SS                                      | 8          | N5C        |
| . . . 22            |            | . . . AB6727   | SPACER, RING ROV TERMINATION                             | 1          |            |
| . . . 23            |            | . . . AB8269   | SEAL O-RING 365 x 4.0 NBR70                              | 1          |            |
| . . . 24            |            | . . . PA4794   | BOLT M6 x 40 SHCS SS                                     | 16         | DUCT       |
| . . 4               |            | . . AB6715     | PLATE BASE ELECTRICAL TERMINATION                        | 1          |            |
| . . 5               |            | . . AB8178     | ADAPTOR OIL-FILLED POWER CABLE                           | 1          |            |
| . . 6               |            | . . AB0528     | ADAPTOR HPU POWER CABLE                                  | 1          | F7F        |
| . . 7               |            | . . HRS1761317 | 'O'-RING 200-236-4470                                    | 3          | OR 9A      |
| . . 8               |            | . . AB8179     | ADAPTOR POD FIBRE CABLE                                  | 1          |            |
| . . 9               |            | . . PD5642     | INSERT HELICOIL M8 x 1.5D SS                             | 8          | N13F       |
| . . 10              |            | . . PD5645     | INSERT HELICOIL M6 x 1.5D SS                             | 38         | N13F       |
| . . 11              |            | . . PC4025     | SEAL O-RING BS018 (18.77 X 1.78)                         | 2          | OR 1E      |
| . . 12              |            | . . PC2384     | SEAL O-RING 54.5 X 3.0                                   | 2          | OR 10E     |
| . . 15              |            | . . PA0546     | WASHER M6 FLAT SS                                        | 20         | DUCT       |
| . . 16              |            | . . PB9764     | WASHER M6 SPRING SS                                      | 20         | DUCT       |
| . . 20              |            | . . AB6615     | ASSEMBLY INTERNAL PARTS / ELECTRICAL TERMINATION MBARI   | 1          |            |
| . . . 1             |            | . . . AB8215   | PLATE BASE INSULATION                                    | 1          |            |
| . . . 2             |            | . . . AB8216   | PLATE HV STUD MOUNT /                                    | 1          |            |
| . . . 3             |            | . . . AB3471   | PLATE, STUD LOCK                                         | 5          |            |
| . . . 5             |            | . . . PB9823   | BOLT M6 / X 30 HX HD SS                                  | 5          | DUCT       |
| . . . 6             |            | . . . WA0353   | NUT M6 SS                                                | 10         | DUCT       |
| . . . 11            |            | . . . AB7956   | BOLT TRANSFORMER MOUNT                                   | 1          |            |
| . . . 14            |            | . . . PC0892   | TERMINAL ENTRELEC 25mm HIGH CURRENT                      | 6          | N2E        |
| . . . 15            |            | . . . PC0894   | TERMINAL ENTRELEC HIGH CURRENT COVER                     | 3          | N1G        |
| . . . 16            |            | . . . PC0893   | TERMINAL ENTRELEC HIGH CURRENT SPACER                    | 7          | N2E        |
| . . . 17            |            | . . . PF0544   | BOLT M6 / X 40 SKT CSK SS                                | 4          |            |
| . . . 18            |            | . . . PB7784   | BOLT M5 x 16 SHCS SS                                     | 6          | N5C        |
| . . . 19            |            | . . . PA4892   | WASHER M5 FLAT SS                                        | 6          | DUCT       |
| . . . 20            |            | . . . PA9746   | WASHER M5 SPRING SS                                      | 6          | N5C        |
| . . . 21            |            | . . . PG3917   | TERMINAL WIELAND / 4MM EARTH (57.504.9055.0)             | 1          | N2A        |
| . . . 23            |            | . . . AA2505   | DIN RAIL TOP HAT 35mm x 7.5mm x 1M                       | 1          | BAY 3      |
|                     |            |                | SIDE                                                     |            |            |
| . . . 24            |            | . . . AB1202   | FIBRE OPTIC SS COUPLER / 200-350-SM                      | 5          | C9C        |
| . . . 25            |            | . . . AB6613   | TRANSFORMER 3kV - MBARI ROV / DIA 320 X 120 - WT 43KG    | 1          |            |
| . . . 26            |            | . . . AB7424   | FUSE 50A BLADE (AUTO)                                    | 4          | A2C        |
| . . . 27            |            | . . . AB5679   | BRACKET F/O COUPLER 6 - WAY                              | 1          | F7C        |
| . . . 28            |            | . . . PC3680   | TERMINAL ENTRELEC / TRIPLE DECK TYPE 1 (RS454-693)       | 2          | N1G        |
| . . . 29            |            | . . . PC3681   | TERMINAL ENTRELEC / TRIPLE DECK END COVER (RS454-817)    | 2          |            |
| . . . 30            |            | . . . AB8213   | NUT M42 x 2 PITCH LOCKING / (16 THK ZINC-PLATED)         | 1          |            |
| . . . 31            |            | . . . AB7249   | FUSE 15A AUTO BLADE                                      | 2          | A4E        |
| . . . 32            |            | . . . OC 9490  | SPACER NYLON, M5 X 25 / M5 X 25                          | 4          | N3F        |
| . . . 33            |            | . . . AB9257   | FUSEHOLDER, 50A, AUTO                                    | 6          |            |
| . . . 34            |            | . . . AB9258   | FUSEHOLDER COVER FOR AB9257                              | 6          | A2B        |

Part: C903RV  
 Description: Tiburon II ROV System - RV  
 Size:

| <u>Eng.<br/>No.</u> | <u>Ref</u> | <u>Part</u>      | <u>Description / Size</u>                     | <u>Qty</u> | <u>Bin</u>     |
|---------------------|------------|------------------|-----------------------------------------------|------------|----------------|
| . . 21              |            | . . AB7292       | ASSEMBLY HARNESSSES UMB TERM - MBARI          | 1          |                |
| . . . 1             |            | . . . AB7293     | CONNECTOR - FIBRE BULKHEAD / MINF-BCRL-SS     | 2          |                |
| . . . 3             |            | . . . AB6312     | HARNESS POD POWER - MBARI                     | 1          |                |
| . . . 4             |            | . . . AA9730     | INSERT 1-5/16"JIC / 90 X 1" R2/AT SS          | 1          |                |
| . . . 5             |            | . . . AA0886     | FITTING MMA / 1-5/16"UNF x 1-5/16"JIC SS      | 1          | D10D           |
| . . . 6             |            | . . . PD9044     | SEAL O-RING BS916 (29.74 x 2.95) / 1-5/16"UNF | 1          | OR 7E          |
| . . . 7             |            | . . . PF2054     | CLIP JUBILEE SIZE 1 (DIA 25-35) SS            | 1          | H4E            |
| . . 25              |            | . . AB7438       | ASSEMBLY UMBILICAL GLAND / MBARI ROV          | 1          |                |
| . . . 1             |            | . . . AA6664     | ADAPTOR UMBILICAL GLAND                       | 1          | F12C           |
| . . . 2             |            | . . . AB0560     | LOCKPLATE DIA 44 UMB COLLAR                   | 1          | F1E            |
| . . . 3             |            | . . . AB0558     | COLLAR UMBILICAL GLAND                        | 1          | F8F            |
| . . . 4             |            | . . . AB7620     | SHEATH UMBILICAL GLAND DIA 13                 | 1          |                |
| . . . 5             |            | . . . AB0561     | PLUG UMBILICAL GLAND                          | 1          | G3D            |
| . . . 6             |            | . . . HRS1761317 | 'O'-RING 200-236-4470                         | 1          | OR 9A          |
| . . . 7             |            | . . . HRS731111  | 'O'-RING REF.224 NITRILE 200-224-4470         | 1          | OR 9B          |
| . . . 8             |            | . . . PF2054     | CLIP JUBILEE SIZE 1 (DIA 25-35) SS            | 3          | H4E            |
| . . . 9             |            | . . . PC2386     | BOLT M6 x 16 SHCS SS                          | 2          | DUCT           |
| . . . 10            |            | . . . PA0546     | WASHER M6 FLAT SS                             | 6          | DUCT           |
| . . . 11            |            | . . . PA4774     | BOLT M6 x 30 SHCS SS                          | 4          | DUCT           |
| . . . 12            |            | . . . PB9764     | WASHER M6 SPRING SS                           | 4          | DUCT           |
| . . 31              |            | . . PA4774       | BOLT M6 x 30 SHCS SS                          | 20         | DUCT           |
| . . 35              |            | . . AB6976       | DRAWING UMBILICAL ALLOCATION - MBARI          | 0          |                |
| . 7                 |            | . AB5973         | ASSEMBLY 'UN-ATTACHED' HARNESSSES MBARI       | 1          |                |
| . . 3               |            | . . AB6309       | HARNESS TOOL SLED INTERFACE-MBARI             | 1          |                |
| . . 10              |            | . . AB6858       | HARNESS AUX JB - MBARI                        | 1          | BAY 2<br>FLOOR |
| . . 11              |            | . . AB6439       | HARNESS HDTV FIBRE - MBARI                    | 1          | B10G           |
| . . 12              |            | . . AB8153       | GLAND PACKING DORN / SIZE 4                   | 1          | B1G            |
| . . 13              |            | . . AB8069       | ADAPTOR DORN FITTING (SIZE 4)                 | 1          |                |
| . . 14              |            | . . AB8151       | GLAND CAP DORN / SIZE 4                       | 1          |                |
| . 8                 |            | . AB5060         | DRAWING HARNESS G.A. MBARI                    | 0          |                |
| . 9                 |            | . AA2919         | ASSEMBLY GYRO                                 | 1          |                |
| . . 1               |            | . . AA0803       | SENSOR GYRO COMPASS (IGC)                     | 1          | KC 1D          |
| . . 2               |            | . . PC0228       | BOLT M5 x 20 SHCS SS                          | 5          | DUCT           |
| . . 3               |            | . . PA9746       | WASHER M5 SPRING SS                           | 2          | N5C            |
| . . 4               |            | . . PA4892       | WASHER M5 FLAT SS                             | 2          | DUCT           |
| . . 5               |            | . . AA7963       | BRACKET GYRO MOUNT                            | 1          | F6E            |
| 10                  |            | AB6405           | LOAD TEST FRAME FOR C903RV                    | 0          |                |
| 11                  |            | AB9187           | LABEL MBARI QUANTUM                           | 2          |                |
| 12                  |            | AC0837           | ASSEMBLY - FUSE TESTING                       | 1          |                |
| . 1                 |            | . AC0760         | RESISTOR WIREWOUND 47R 12.5W                  | 2          |                |
| . 2                 |            | . AC0770         | RESISTOR WIREWOUND 30R 50W                    | 4          |                |
| . 3                 |            | . AC0762         | RESISTOR WIREWOUND 20R 50W                    | 2          |                |
| . 4                 |            | . AC0141         | RESISTOR WIREWOUND 12R 50W                    | 4          |                |
| . 5                 |            | . AC0763         | RESISTOR WIREWOUND 22R 550W                   | 2          |                |
| . 6                 |            | . AC0768         | RESISTOR WIREWOUND 1.5R 25W                   | 1          |                |
| . 7                 |            | . AC0766         | RESISTOR WIREWOUND 39R 25W                    | 1          |                |
| . 8                 |            | . AC0764         | DRAWING - MBARI FUSE TESTING, WIRING          | 0          |                |
| . 9                 |            | . AC0769         | RESISTOR WIREWOUND 15R 50W                    | 2          | A4B            |
| . 10                |            | . AC0771         | RESISTOR WIREWOUND 6.8R 100W                  | 2          |                |
| . 11                |            | . AC0791         | RESISTOR WIREWOUND 220R 300W                  | 13         | A4A            |
| . 12                |            | . AC0142         | RESISTOR WIREWOUND 10R 300W                   | 1          |                |
| . 13                |            | . AC0780         | RESISTOR WIREWOUND 47R 300W                   | 3          |                |
| . 14                |            | . AC0759         | RESISTOR WIREWOUND 18R 25W                    | 3          | A4A            |
| . 15                |            | . AC0761         | RESISTOR WIREWOUND 33R 75W                    | 1          |                |
| . 16                |            | . AC0841         | RESISTOR WIREWOUND 120R 100W                  | 23         |                |
| . 17                |            | . AC0842         | RESISTOR WIREWOUND 220R 75W                   | 5          | A4A            |
| . 18                |            | . AC0850         | RESISTOR WIREWOUND6 68R 200W                  | 6          | A4A            |
| . 19                |            | . AC0765         | RESISTOR WIREWOUND 27R 10W/5.5W               | 1          |                |