

# Kirby Morgan® Diamond Helmet    P/N 500-710 / 500-711

| Location # | Part #   | Description                                                       |
|------------|----------|-------------------------------------------------------------------|
| 1          | 510-754  | Head Cushion Assembly                                             |
|            | 510-722  | Head Cushion Bag                                                  |
|            | 510-837  | Head Cushion Foam Spacer Assembly<br>(Order P/N 525-745)          |
| 2          | 510-836  | Head Cushion Foam Spacer Bag                                      |
| 3          | 510-575  | Nose Block Pad                                                    |
| 4          | 545-015  | Nose Block Device                                                 |
| 5          | 510-739  | Oral Nasal Insert, Diamond                                        |
| 6          | 520-020  | Valve Body                                                        |
| 7          | 510-550  | Valve, Oral Nasal                                                 |
| 8          | 510-740  | Diamond Oral Nasal                                                |
| 9          | 530-058  | Screw                                                             |
| 10         | 330-405  | Washer, Lock                                                      |
| 11         | 530-078  | Screw                                                             |
| 12         | 520-265  | Top                                                               |
| 13         | 530-527  | Washer                                                            |
| 14         | 540-581  | Handle, KM Diamond                                                |
| 15         | 510-266  | Grip                                                              |
| 16         | 550-285  | Mount Bar                                                         |
| 17         | 505-767  | Handle Assembly, KM Diamond<br>(excludes loc. #18)                |
| 18         | 530-059  | Screw                                                             |
| 19         | 560-517* | Helmet Shell, Stainless Steel                                     |
| 20         | 510-260  | O-ring, View Port                                                 |
| 21         | 520-004* | Face Port                                                         |
| 22         | 540-563  | Port Retainer                                                     |
| 23         | 530-059  | Screw                                                             |
| 24         | 550-566  | Adapter                                                           |
| 25         | 530-052  | Screw                                                             |
| 26         | 505-738  | Port Retainer Assembly                                            |
| 27         | 530-078  | Screw                                                             |
| 28         | 560-300  | Zinc Whisker Anode                                                |
| 29         | 550-062  | Knob, Nose Block                                                  |
| 30         | 555-180  | Packing Nut, Nose Block                                           |
| 31         | 510-008  | O-ring                                                            |
| 32         | 550-577  | Nose Block Guide                                                  |
| 33         | 510-010  | O-ring                                                            |
| 34         | 510-772  | Bypass Equalizer Tube                                             |
| 35         | 530-074  | Screw                                                             |
| 36         | 505-375  | Surface Bypass Valve Assembly                                     |
| 37         | 530-527  | Washer                                                            |
| 38         | 530-059  | Screw                                                             |
| 39         | 520-049  | Tie Wrap                                                          |
| 40         | 555-170  | Hex Bushing ¼" x ⅜" NPT<br>(Included with purchase—not installed) |
| 41         | 530-076  | Screw                                                             |
| 42         | 540-158  | Bracket, Surface Bypass Valve                                     |
| 43         | 505-753  | Airtrain Assembly, Stainless Helmet                               |
| 44         | 530-415  | Washer                                                            |
| 45         | 530-317  | Nut                                                               |
| 46         | 530-083  | Screw                                                             |
| 47         | 550-571  | Sleeve                                                            |
| 48         | 530-535  | Washer                                                            |
| 49         | 550-574  | Sleeve                                                            |

| Location # | Part #  | Description                                                 |
|------------|---------|-------------------------------------------------------------|
| 50         | 530-032 | Screw                                                       |
| 51         | 540-039 | Front Stand Off                                             |
| 52         | 530-059 | Screw                                                       |
| 53         | 525-116 | Front Stand Off Kit<br>(2 each of loc. #51 and 52)          |
| 54         | 510-735 | Pickup Tube                                                 |
| 55         | 505-378 | Water Purge Assembly                                        |
| 56         | 550-141 | Assembly Retainer Ring                                      |
| 57         | 510-735 | Pickup Tube                                                 |
| 58         | 830-015 | Screw                                                       |
| 59         | 330-205 | Washer                                                      |
| 60         | 520-550 | Oral Nasal Mount                                            |
| 61         | 550-136 | Port Plug, Large                                            |
| 62         | 310-021 | O-ring                                                      |
| 63         | 520-552 | Inhalation Tube                                             |
| 64         | 560-559 | Regulator Pod                                               |
| 65         | 510-127 | O-ring                                                      |
| 66         | 505-385 | Diamond Pod Subassembly<br>(includes loc. #s 84, 85 and 86) |
| 67         | 530-309 | Cap Screw                                                   |
| 68         | 505-752 | Diamond Main Tube Assembly                                  |
| 69         | 540-531 | Lock Clip                                                   |
| 70         | 510-789 | Diaphragm Assembly                                          |
| 71         | 505-373 | Regulator Cover/Retainer Assembly                           |
| 72         | 505-376 | Surface Bypass Hose Assembly<br>(includes loc. #73)         |
| 73         | 510-016 | O-ring                                                      |
| 74         | 530-089 | Screw                                                       |
| 75         | 510-732 | Shroud, Inhale Regulator                                    |
| 76         | 550-644 | Pin                                                         |
| 77         | 510-733 | Access Cover                                                |
| 78         | 520-038 | Tie Wrap                                                    |
| 79         | 510-731 | Diamond Valve Shroud                                        |
| 80         | 530-086 | Screw                                                       |
| 81         | 430-134 | Washer                                                      |
| 82         | 505-400 | Diamond Exhaust Assembly                                    |
| 83         | 810-025 | Purge Valve                                                 |
| 84         | 510-018 | O-ring                                                      |
| 85         | 550-162 | Hex Insert                                                  |
| 86         | 530-018 | Screw                                                       |
| 87         | 510-017 | O-ring                                                      |
| 88         | 550-533 | Bent Tube Adapter                                           |
| 89         | 550-050 | Jam Nut                                                     |
| 90         | 510-403 | Gasket, Pod                                                 |
| 91         | 530-527 | Washer                                                      |
| 92         | 530-059 | Screw                                                       |
| 93         | 530-145 | Lock Nut                                                    |
| 94         | 530-035 | Screw                                                       |
| 95         | 530-546 | Washer for Swing Catch                                      |
| 96         | 550-061 | Spacer                                                      |
| 97         | 520-167 | Teflon® Washer for Swing Catch                              |
| 98         | 550-122 | Spring Spacer                                               |
| 99         | 530-045 | Screw                                                       |
| 100        | 535-825 | Spring, Swing Catch                                         |

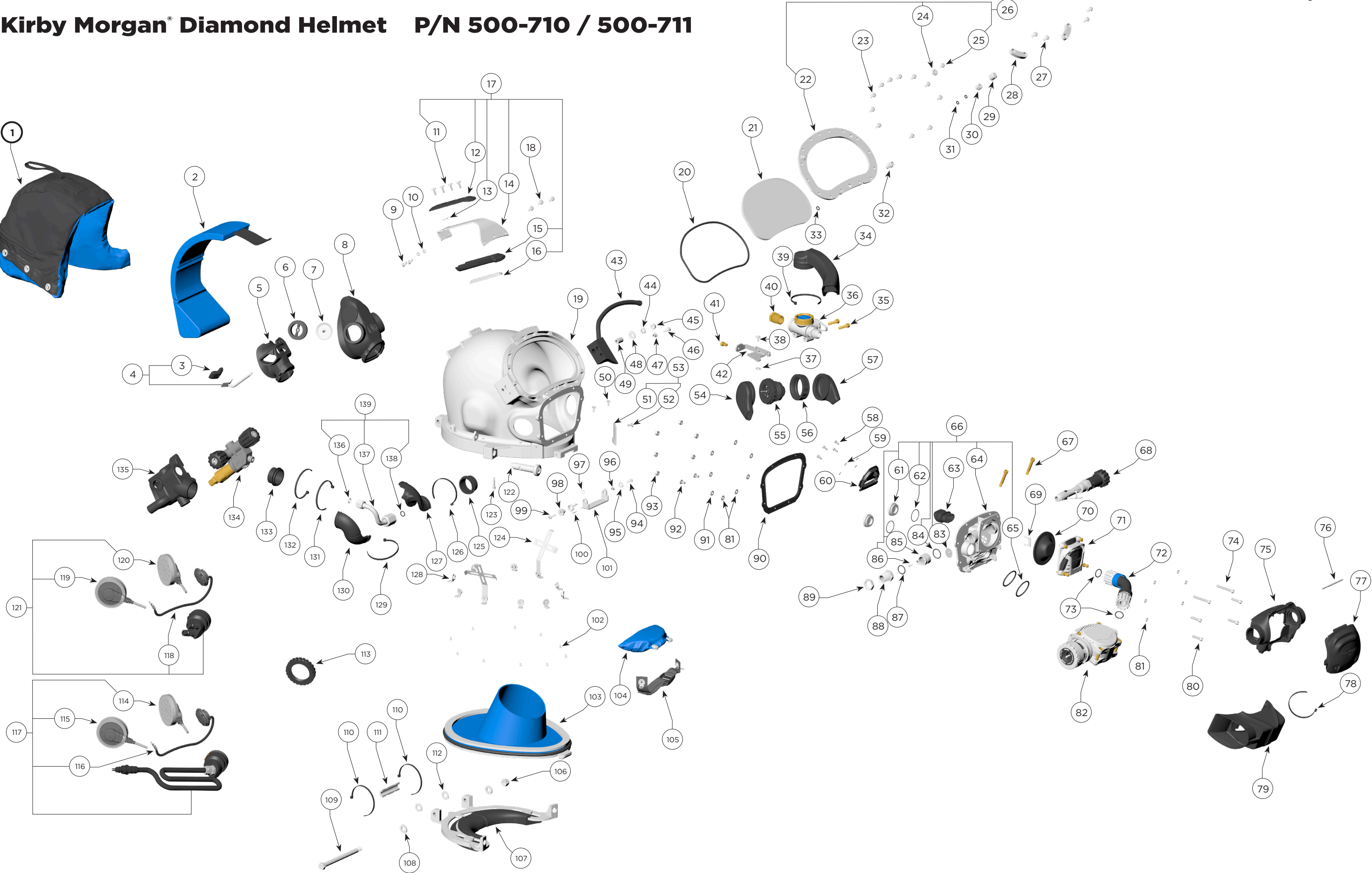
| Location # | Part #  | Description                                           |
|------------|---------|-------------------------------------------------------|
| 101        | 540-086 | Swing Catch                                           |
| 102        | 530-037 | Screw                                                 |
| 103        | 505-746 | Neck Ring Assembly, Medium, S.S.                      |
| 104        | 510-683 | Chin Cushion                                          |
|            | 510-639 | Chin Cushion Bag                                      |
| 105        | 505-748 | Chin Strap Assembly, w/Snaps, S.S.                    |
| 106        | 530-028 | Lock Nut                                              |
| 107        | 505-755 | Locking Collar Assembly, S.S.                         |
| 108        | 530-545 | Washer                                                |
| 109        | 530-027 | Hinge Bolt                                            |
| 110        | 520-038 | Tie Wrap                                              |
| 111        | 560-304 | Zinc Sleeve Anode                                     |
| 112        | 520-165 | Washer                                                |
| 113        | 320-026 | Comm. Mount Nut                                       |
| 114        | 515-019 | Earphone, Left, 15.5"                                 |
| 115        | 515-018 | Earphone, Right, 9"                                   |
| 116        | 515-029 | Microphone Assembly                                   |
| 117        | 515-024 | Comm, Assembly w/MWPC                                 |
| 118        | 515-029 | Microphone Assembly                                   |
| 119        | 515-018 | Earphone, Right, 9"                                   |
| 120        | 515-019 | Earphone, Left, 15.5"                                 |
| 121        | 515-023 | Comm. Assembly w/Posts                                |
| 122        | 505-110 | Sealed Pull Pin Assembly                              |
| 123        | 530-015 | Screw                                                 |
| 124        | 505-742 | Earphone Retainer Assembly, S.S.                      |
| 125        | 550-572 | Adapter Sleeve                                        |
| 126        | 520-039 | Tie Wrap                                              |
| 127        | 510-737 | Water Tube-B                                          |
| 128        | 505-740 | Snap Tab Assembly, S.S.                               |
| 129        | 520-039 | Tie Wrap                                              |
| 130        | 510-736 | Water Tube-A                                          |
| 131        | 520-039 | Tie Wrap                                              |
| 132        | 520-049 | Tie Wrap                                              |
| 133        | 550-572 | Adapter Sleeve                                        |
| 134        | 505-732 | Side Block Assembly                                   |
| 135        | 510-734 | Side Block Shroud                                     |
| 136        | 520-033 | O-ring, Teflon®                                       |
| 137        | 555-074 | Bent Tube Assembly, No O-rings<br>(Order P/N 555-075) |
| 138        | 510-012 | O-ring                                                |
| 139        | 555-075 | Bent Tube w/O-rings                                   |

 CAUTION

Use only Kirby Morgan original replacement parts. The use of other manufacturers' parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.

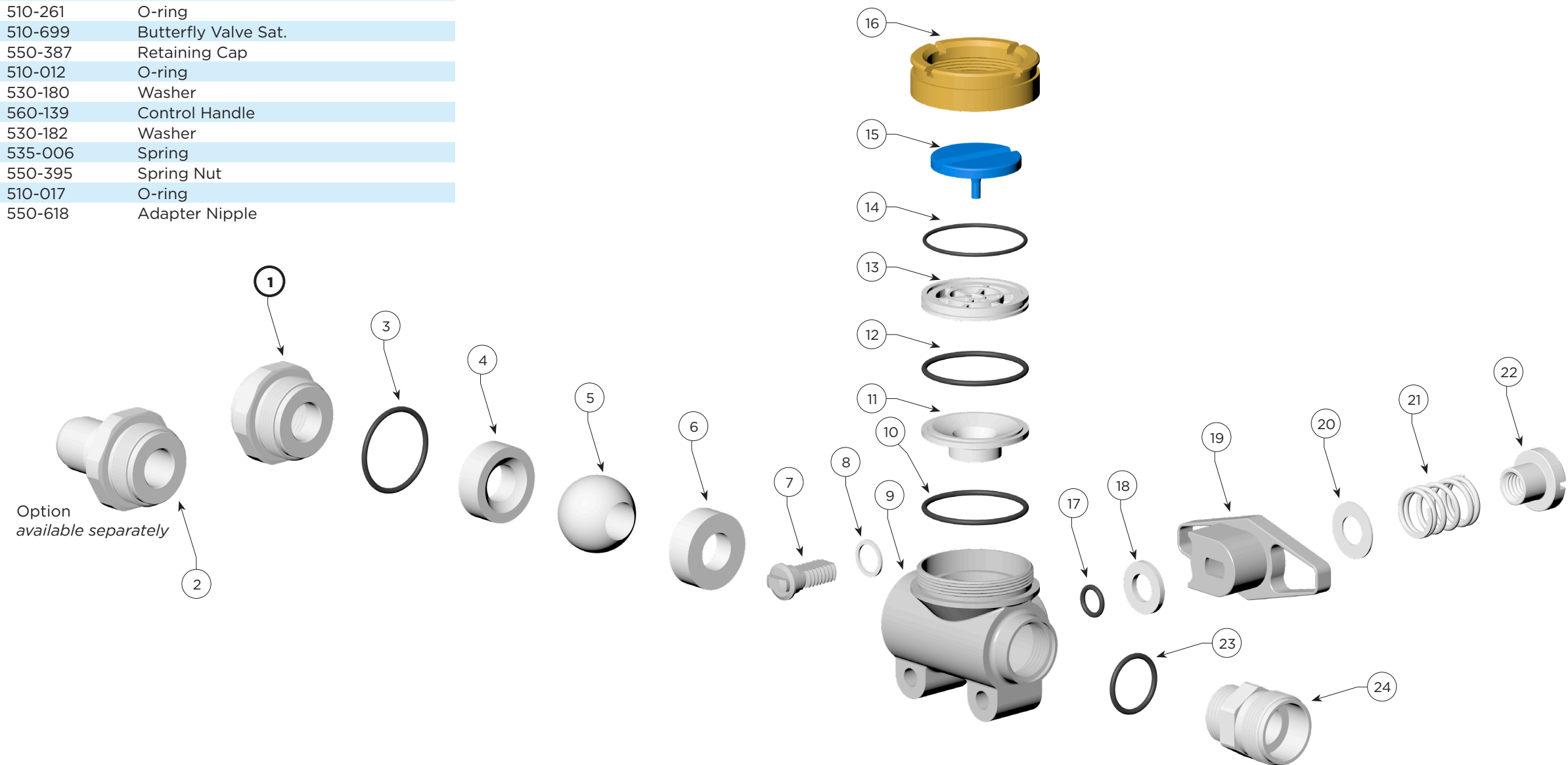
\* Denotes a critical component

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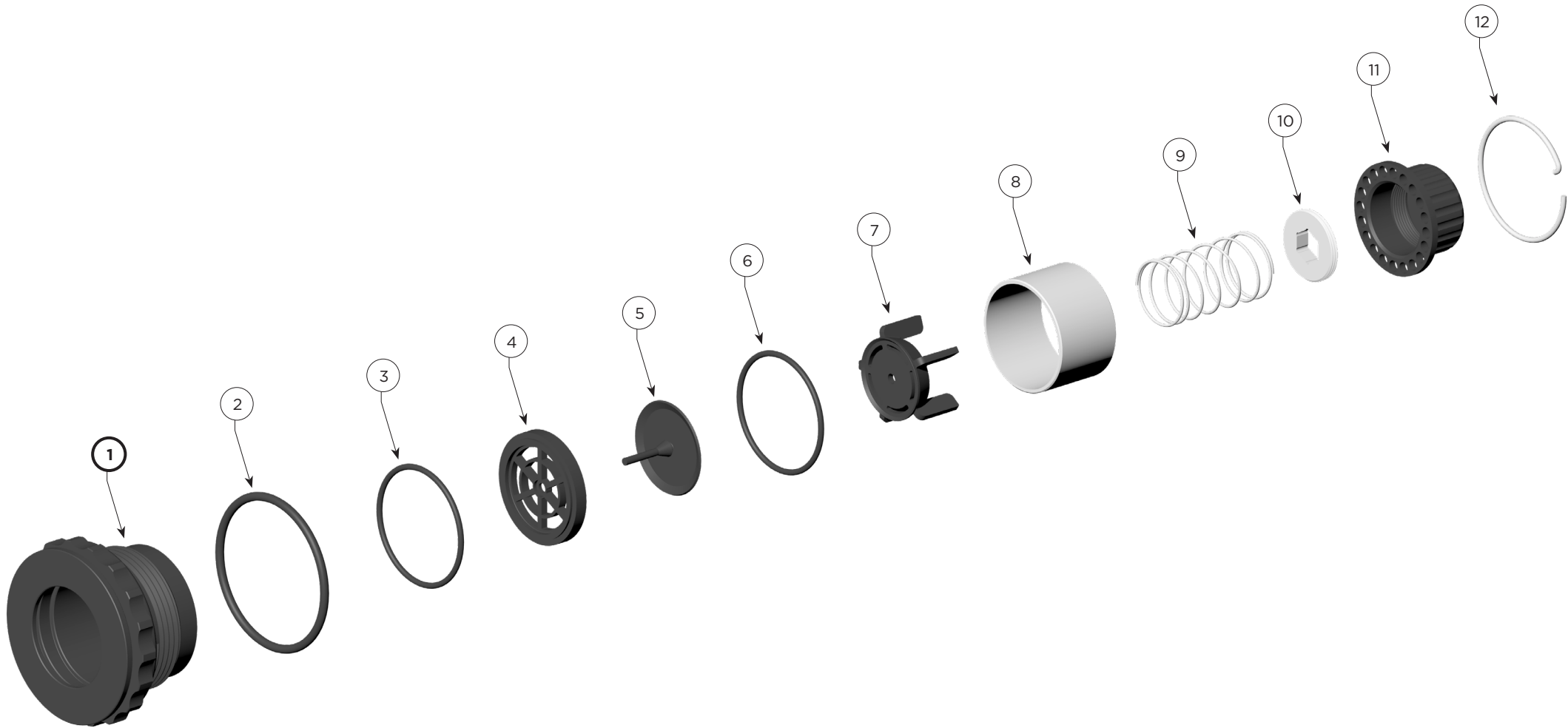
# Surface Bypass Valve Assembly    P/N 505-375

| Location # | Part #  | Description                      |
|------------|---------|----------------------------------|
| 1          | 550-616 | Hose Fitting Adapter ½" NPT      |
| 2          | 550-390 | Q.D. Adapter ( <i>optional</i> ) |
| 3          | 310-022 | O-ring                           |
| 4          | 550-388 | Ball Seal                        |
| 5          | 550-389 | Control Ball                     |
| 6          | 550-388 | Ball Seal                        |
| 7          | 550-391 | Ball Control Stem                |
| 8          | 530-179 | Stem Washer                      |
| 9          | 550-385 | Surface Bypass Valve Body        |
| 10         | 510-026 | O-ring                           |
| 11         | 550-386 | Exhaust Port Seal                |
| 12         | 510-026 | O-ring                           |
| 13         | 550-374 | Butterfly Valve Seat             |
| 14         | 510-261 | O-ring                           |
| 15         | 510-699 | Butterfly Valve Sat.             |
| 16         | 550-387 | Retaining Cap                    |
| 17         | 510-012 | O-ring                           |
| 18         | 530-180 | Washer                           |
| 19         | 560-139 | Control Handle                   |
| 20         | 530-182 | Washer                           |
| 21         | 535-006 | Spring                           |
| 22         | 550-395 | Spring Nut                       |
| 23         | 510-017 | O-ring                           |
| 24         | 550-618 | Adapter Nipple                   |



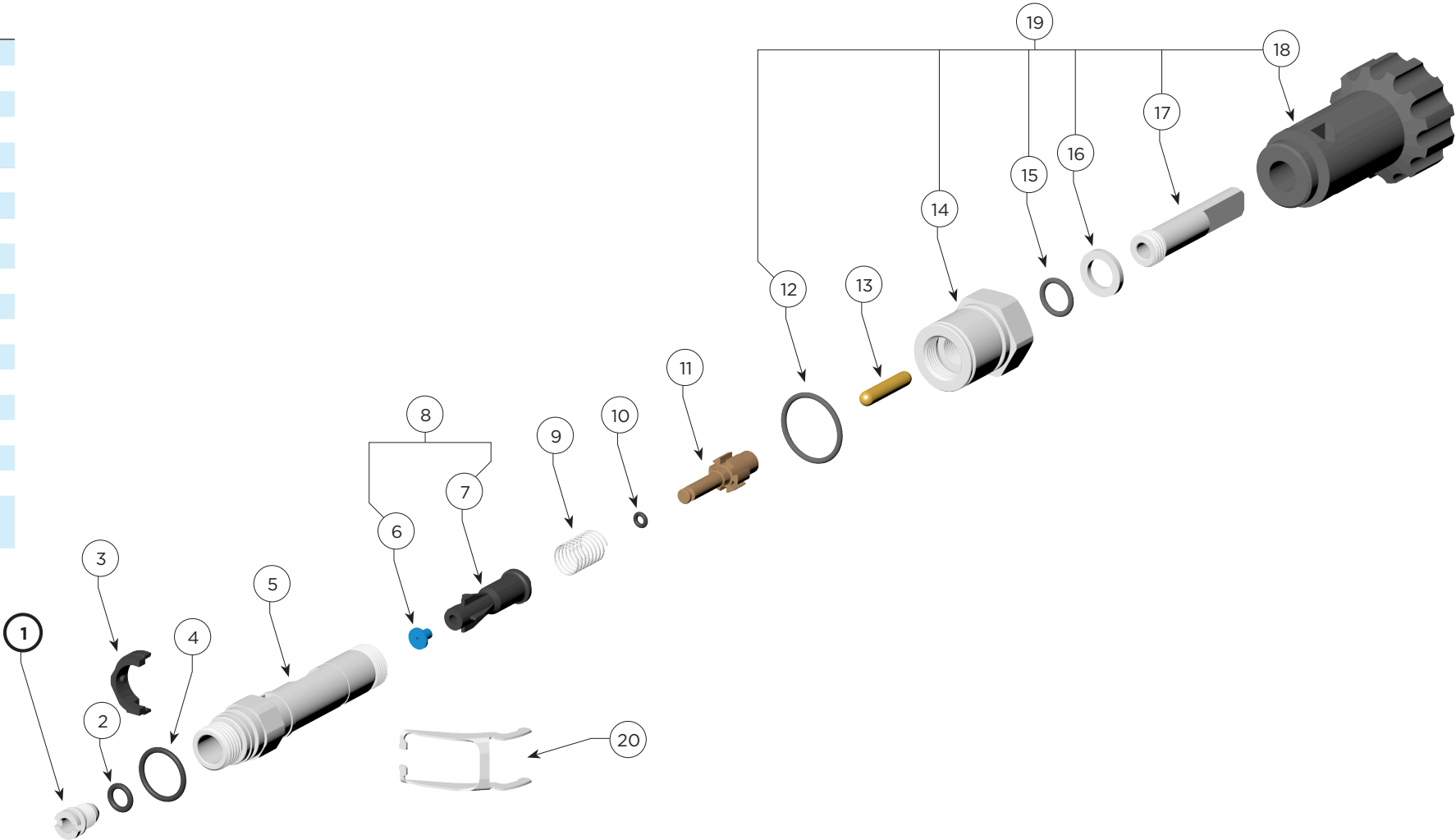
Water Purge Assembly P/N 505-378

| Location # | Part #  | Description                        |
|------------|---------|------------------------------------|
| 1          | 550-383 | Main Body                          |
| 2          | 510-029 | O-ring                             |
| 3          | 910-101 | O-ring                             |
| 4          | 520-252 | Valve Seat Insert                  |
| 5          | 510-697 | Exhaust Valve                      |
| 6          | 910-101 | O-ring                             |
| 7          | 550-082 | Valve Cap                          |
| 8          | 550-381 | Compression Sleeve                 |
| 9          | 535-005 | Spring                             |
| 10         | 550-645 | Water Dump Spring Adjuster, Insert |
| 11         | 550-382 | Retaining Cap                      |
| 12         | 540-014 | Retaining Ring                     |



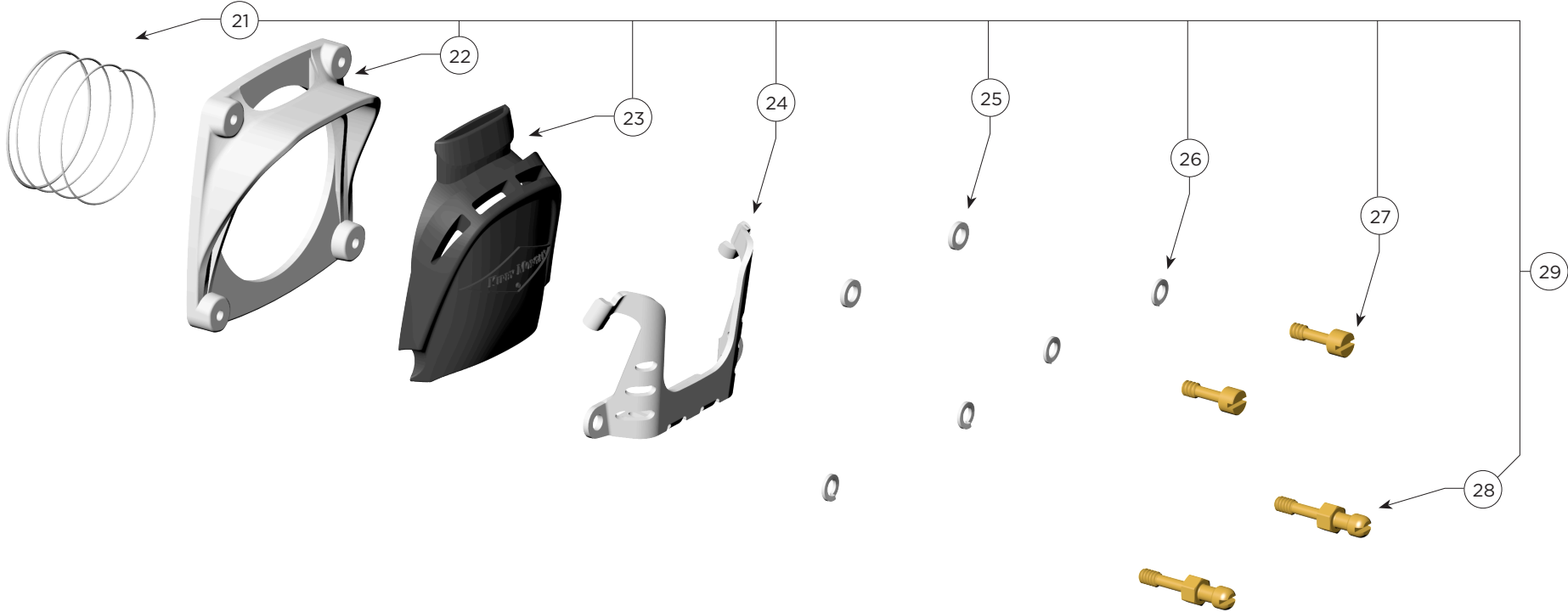
Diamond Main Tube Assembly    P/N 505-752

| Location # | Part #    | Description                                                         |
|------------|-----------|---------------------------------------------------------------------|
| 1          | 550-163   | Adjustable Nipple                                                   |
| 2          | 510-010   | O-ring                                                              |
| 3          | 220-056   | Lever Bearing Clip                                                  |
| 4          | 510-015   | O-ring                                                              |
| 5          | 550-179   | Diamond Main Tube                                                   |
| 6          | 210-060   | Valve Seat                                                          |
| 7          | 220-050SS | Inlet Valve, Stainless Steel Tube                                   |
| 8          | 205-020   | Inlet Valve Assembly                                                |
| 9          | 235-015   | Spring                                                              |
| 10         | 210-055   | O-ring, Balanced                                                    |
| 11         | 550-549   | Balance Spacer                                                      |
| 12         | 510-018   | O-ring                                                              |
| 13         | 550-643   | Transfer Pin                                                        |
| 14         | 550-567   | Adjustment Packing Nut                                              |
| 15         | 510-012   | O-ring                                                              |
| 16         | 550-640   | Shaft Bearing Washer                                                |
| 17         | 550-158   | Adjustment Shaft                                                    |
| 18         | 520-517   | Flex Knob                                                           |
| 19         | 505-088   | Adjustment (Flex) Knob/Packing Nut Assembly (Loc. #13 NOT Included) |
| 20         | 240-008   | Lever Arm                                                           |



Regulator Cover Assembly  
P/N 505-373

|    |         |                          |
|----|---------|--------------------------|
| 21 | 535-010 | Assist Spring            |
| 22 | 560-558 | Regulator Cover Frame    |
| 23 | 510-788 | Regulator Purge Cover    |
| 24 | 540-053 | Cover Guard              |
| 25 | 530-518 | Washer                   |
| 26 | 330-405 | Lock Washer              |
| 27 | 530-099 | Cover Retainer Screw     |
| 28 | 550-074 | Bishop Pin               |
| 29 | 505-373 | Regulator Cover Assembly |



Diamond Exhaust Assembly P/N 505-400

| Location # | Part #  | Description                          |
|------------|---------|--------------------------------------|
| 1          | 550-184 | Split Retainer                       |
| 2          | 830-015 | Screw                                |
| 3          | 550-631 | Control Knob                         |
| 4          | 510-128 | O-ring                               |
| 5          | 505-135 | Spring Adjuster                      |
| 6          | 535-403 | Overpressure Spring                  |
| 7          | 550-635 | Retainer Housing                     |
| 8          | 535-401 | Puck Spring                          |
| 9          | 505-366 | Puck w/Pin                           |
| 10         | 510-779 | Puck Exhaust Valve                   |
| 11         | 550-576 | Puck Seat Insert                     |
| 12         | 910-103 | O-ring, Inner Ring, Exhaust          |
| 13         | 540-012 | Retainer Ring                        |
| 14         | 510-696 | Exhaust Valve                        |
| 15         | 520-022 | Exhaust Valve Insert                 |
| 16         | 550-590 | Mount Block                          |
| 17         | 510-019 | O-ring                               |
| 18         | 540-013 | Housing Retaining Ring               |
| 19         | 545-300 | Remote Exhaust Main Body Assembly    |
| 20         | 510-404 | 1st Stage Diamond Diaphragm Assembly |
| 21         | 550-610 | Top Diaphragm Cover                  |
| 22         | 530-309 | Cap Screw                            |
| 23         | 550-618 | Adapter Outlet                       |
| 24         | 510-017 | O-ring                               |
| 25         | 510-026 | O-ring                               |
| 26         | 550-165 | Valve Seat Insert-8                  |
| 27         | 510-023 | 2nd Stage O-ring Seal                |
| 28         | 505-410 | Diamond Exhaust Sub-Assembly         |
| 29         | 535-400 | 2nd Stage Diaphragm Spring           |
| 30         | 510-405 | 2nd Stage Diamond Diaphragm Assembly |
| 31         | 545-310 | Bottom Diaphragm Cover Assembly      |

