

# Razer Demolition Tool (GDT 190 - 890)

## PARTS MANUAL



## CONTACT INFORMATION

### **Genesis Attachments**

1000 Genesis Drive  
Superior, WI 54880 USA

Toll Free: 888-SHEAR-IT  
(888-743-2748)

Phone: 715.395.5252

E-mail:  
info@genesisattachments.com

### **Europe/Africa/Middle East Genesis GmbH**

Teramostrasse 23  
87700 Memmingen, Germany

Phone: +49 83 31 9 25 98 0  
Fax: +49 83 31 9 25 98 80  
genesis-europe.com

E-mail:  
info@genesis-europe.com

### **Asia Pacific Representative Office**

24 Upper Serangoon View #12-28  
Singapore 534205

Phone: +65 9673 9730

E-mail:  
tchoo@genesisattachments.com

### **Central America & Colombia**

Cra 13A #89-38 / Ofi 613  
Bogota, Colombia

Phone: +57 1 610 8160 / 795 8747

E-mail:  
contact@themsagroup.com

View and download all manuals: [genesisattachments.com/manuals](http://genesisattachments.com/manuals)  
Patents: [genesisattachments.com/products/patents](http://genesisattachments.com/products/patents)

# TABLE OF CONTENTS

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| <b>CONTACT INFORMATION</b>                                      | <b>2</b>  |
| <b>GENERAL ARRANGEMENT</b>                                      | <b>4</b>  |
| <b>ASSEMBLY PIVOT GROUP</b>                                     | <b>6</b>  |
| <b>ASSEMBLY BLADE KIT - GDT 190 - 590</b>                       | <b>8</b>  |
| <b>ASSEMBLY BLADE KIT - GDT 890</b>                             | <b>10</b> |
| <b>ASSEMBLY CYLINDER PINS</b>                                   | <b>12</b> |
| <b>ASSEMBLY LUGS</b>                                            | <b>14</b> |
| <b>ASSEMBLY CYLINDER</b>                                        | <b>16</b> |
| <b>GDT 190 &amp; 290 REGEN BLOCK SUB-ASSEMBLY 6301255</b>       | <b>18</b> |
| <b>GDT 390 REGEN BLOCK SUB-ASSEMBLY 6301254</b>                 | <b>20</b> |
| <b>GDT 590 &amp; 890 REGEN BLOCK SUB-ASSEMBLY 6360120</b>       | <b>22</b> |
| <b>ACCESS COVERS</b>                                            | <b>24</b> |
| <b>GDT 190 &amp; 290 ASSEMBLY SUB-HEAD</b>                      | <b>26</b> |
| <b>GDT 390 ASSEMBLY SUB-HEAD</b>                                | <b>28</b> |
| <b>GDT 590 ASSEMBLY SUB-HEAD</b>                                | <b>30</b> |
| <b>GDT 890 ASSEMBLY SUB-HEAD</b>                                | <b>32</b> |
| <b>SUB-ASSEMBLY LINE MOUNT MANIFOLD</b>                         | <b>34</b> |
| <b>GDT 190 &amp; 290 ASSEMBLY SWIVEL MANIFOLD</b>               | <b>36</b> |
| <b>GDT 390 ASSEMBLY SWIVEL MANIFOLD</b>                         | <b>38</b> |
| <b>GDT 590 &amp; 890 ASSEMBLY SWIVEL MANIFOLD</b>               | <b>40</b> |
| <b>SPLIT FLANGE KITS USED IN THIS MANUAL</b>                    | <b>42</b> |
| <b>BOLT TORQUE SPECIFICATIONS</b>                               | <b>43</b> |
| <b>THREAD TREATMENT DIAGRAM</b>                                 | <b>44</b> |
| Processors                                                      | 44        |
| <b>PROCEDURES</b>                                               | <b>45</b> |
| Cleaning                                                        | 45        |
| Threadlocker                                                    | 45        |
| Anti-Seize                                                      | 46        |
| No Thread Treatment                                             | 46        |
| <b>BOLT TORQUE SPECIFICATIONS</b>                               | <b>47</b> |
| Dry Torque Values                                               | 47        |
| Wet Torque Values                                               | 47        |
| <b>O-RING BOSS &amp; FLAT FACE O-RING TORQUE SPECIFICATIONS</b> | <b>48</b> |
| <b>BOLT DRIVE SPECIFICATIONS</b>                                | <b>49</b> |
| <b>WARRANTY</b>                                                 | <b>50</b> |
| Claim Procedure                                                 | 50        |
| Blade Warranty                                                  | 50        |
| <b>PARTS ORDER POLICY AND PROCEDURE</b>                         | <b>51</b> |
| Parts Orders Should Include                                     | 51        |
| Placing Orders                                                  | 51        |
| Part Numbers                                                    | 51        |
| Shipping                                                        | 51        |
| Invoices                                                        | 51        |
| Returns                                                         | 51        |
| Warranty Returns                                                | 51        |
| <b>PARTS ORDER FORM</b>                                         | <b>52</b> |
| <b>INDEX</b>                                                    | <b>53</b> |
| <b>CONTACT INFORMATION</b>                                      | <b>57</b> |

## GENERAL ARRANGEMENT





## GENERAL ARRANGEMENT

| ITEM | QTY | PART NUMBER    |                |                |                |                | DESCRIPTION            |
|------|-----|----------------|----------------|----------------|----------------|----------------|------------------------|
|      |     | GDT 190        | GDT 290        | GDT 390        | GDT 590        | GDT 890        |                        |
| 1    | 1   | *              | *              | *              | *              | *              | Wtmg Stick             |
| 2    | 1   | *              | *              | *              | *              | *              | Wtmg Upper             |
| 3    |     | See<br>page 26 | See<br>page 26 | See<br>page 28 | See<br>page 30 | See<br>page 32 | Assembly Sub-Head      |
| 4    |     | *              |                |                |                |                | Assembly Lugs          |
| 5    |     | See page 12    |                |                |                |                | Assembly Cylinder Pins |
| 6    |     | See page 6     |                |                |                |                | Assembly Pivot Group   |
| 7    |     | See page 8     |                |                |                |                | Assembly Blade Kit     |

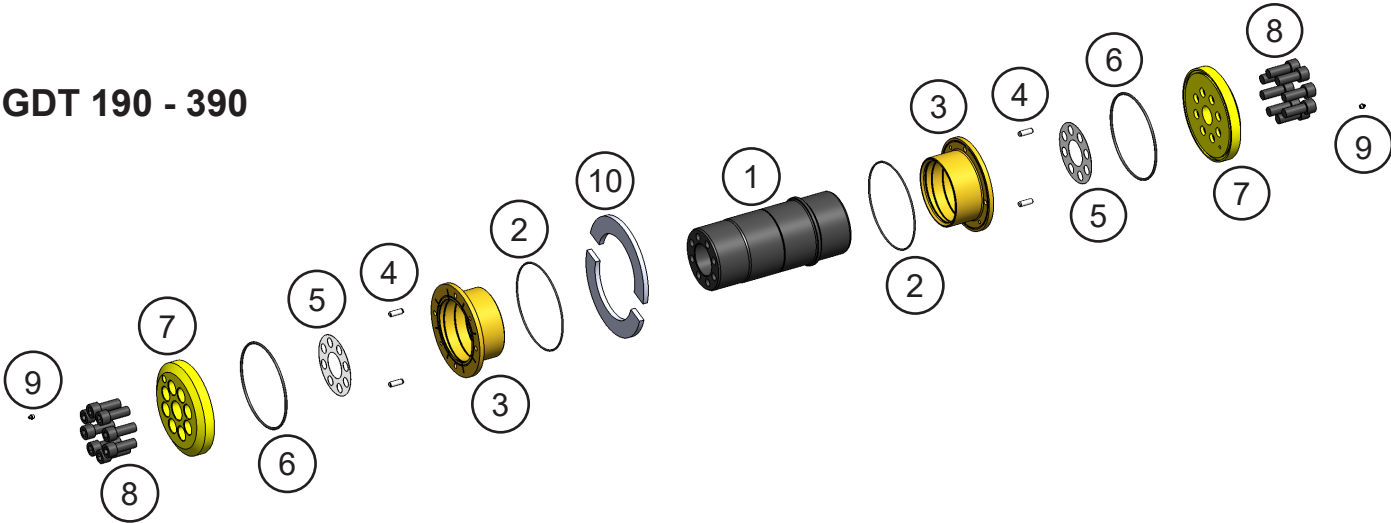
\* Part numbers are Serial Number specific. For replacement parts call the Genesis Parts Department.

**USA**  
715-395-3488

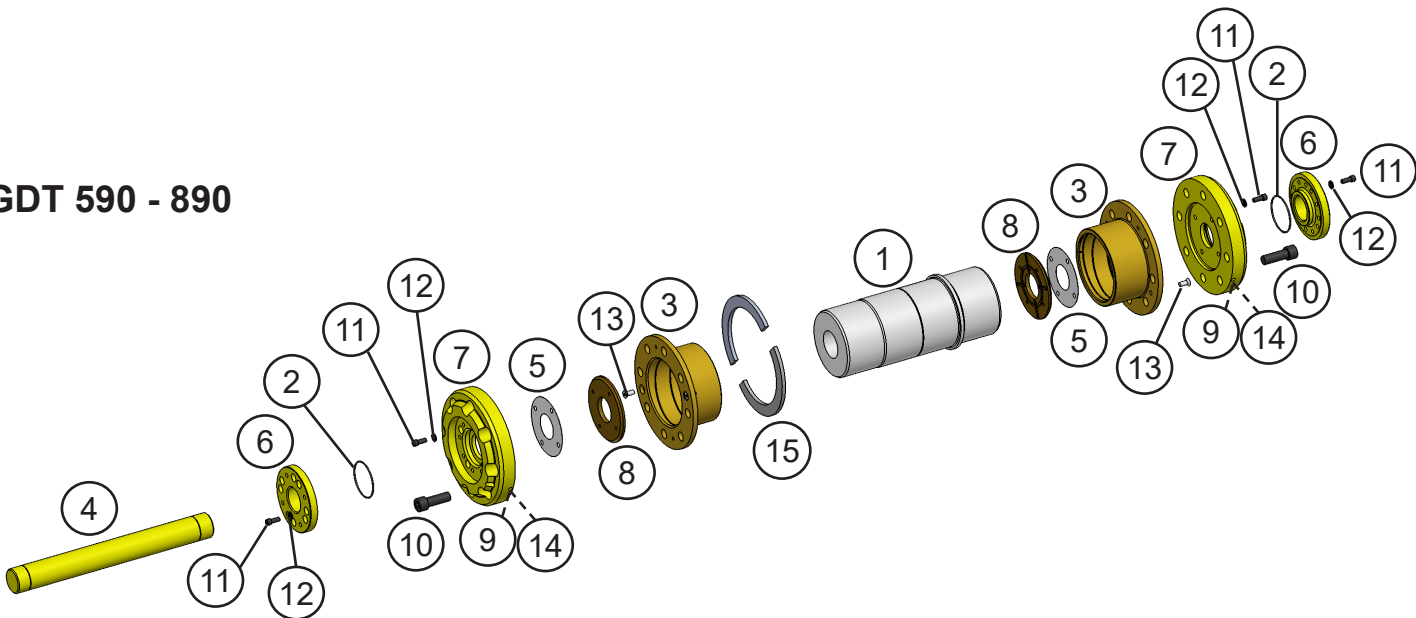
**Europe**  
+49 83 31 9 25 98 0

# ASSEMBLY PIVOT GROUP

## GDT 190 - 390



## GDT 590 - 890



## ASSEMBLY PIVOT GROUP

| ITEM | QTY | PART NUMBER    |                |                | DESCRIPTION                       |
|------|-----|----------------|----------------|----------------|-----------------------------------|
|      |     | <b>GDT 190</b> | <b>GDT 290</b> | <b>GDT 390</b> |                                   |
| 1    | 1   | *              | *              | *              | Mach Main Shaft                   |
| 2    | 2   | S0190270       | S0190270       | S0190274       | O-Ring                            |
| 3    | 2   | 3501100        | 3501100        | 3501760        | Mach Bearing                      |
| 4    | 4   | 6300134        | 6300134        | 6300134        | Mach Dowel                        |
| 5    | 2   | 3500360        | 3500360        | 3501761        | Shim Set                          |
| 6    | 2   | S0190372       | S0190372       | S0190376       | O-Ring                            |
| 7    | 2   | 3501099        | 3501099        | 3501812        | Mach End Cap                      |
| 8    | 16  | F0624060       | F0624060       | F0624060       | Socket Head Capscrew M24 x 3 x 60 |
| 9    | 2   | 6200002        | 6200002        | 6200002        | Grease Fitting                    |
| 10   | 2   | 3503374        | 3503377        | 3503381        | Thrust Washer                     |

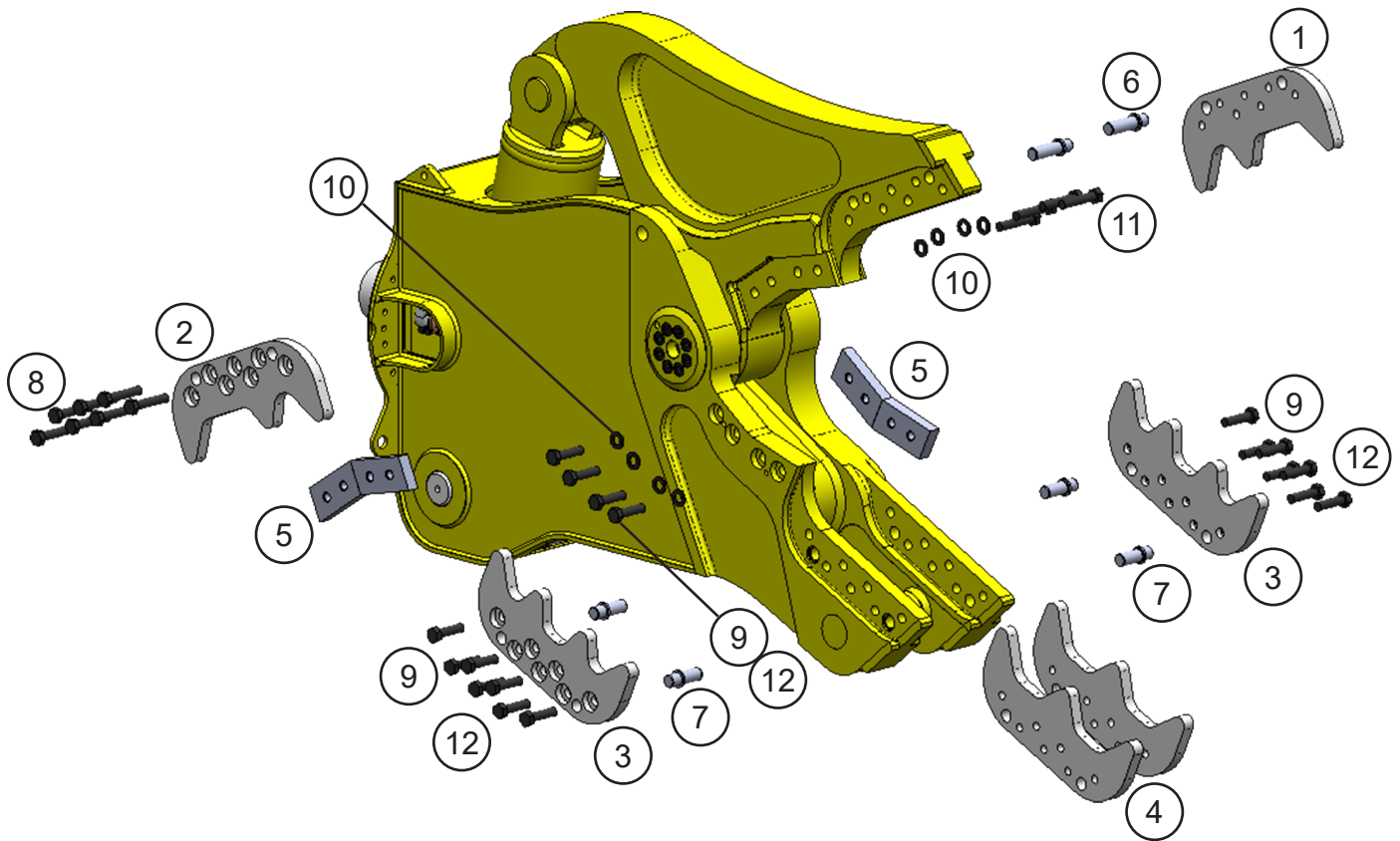
| ITEM | QTY | PART NUMBER    |                | DESCRIPTION                                             |
|------|-----|----------------|----------------|---------------------------------------------------------|
|      |     | <b>GDT 590</b> | <b>GDT 890</b> |                                                         |
| 1    | 1   | 3502724        | 3503477        | Mach Main Shaft                                         |
| 2    | 2   | S0190244       | S0190244       | O-Ring                                                  |
| 3    | 2   | 3502723        | 3503476        | Mach Bearing                                            |
| 4    | 1   | 3502727        | 3503479        | Mach Tie Rod                                            |
| 5    | 2   | 1102448        | 1102448        | Shim Set                                                |
| 6    | 2   | 3502719        | 3502719        | Mach Tie Rod Nut                                        |
| 7    | 2   | 3502717        | 3502717        | Mach End Cap                                            |
| 8    | 2   | 3502716        | 3502716        | Mach Thrust Washer                                      |
| 9    | 2   | 6200002        | 6200002        | Grease Fitting - installed in #7                        |
| 10   | 16  | F0627080       | F0627080       | Socket Head Capscrew M27 x 3 x 80                       |
| 11   | 16  | F0612030       | F0612030       | Socket Head Capscrew M12 x 1.75 x 30                    |
| 12   | 16  | F1201224       | F1201224       | Flat Washer M12                                         |
| 13   | 4   | F0412030       | F0412030       | Flat Head Cap Screw M12 x 1.75 x 30                     |
| 14   | 2   | F2512012       | F2512012       | Socket Head Set Screw M12 x 1.75 x 12 - installed in #7 |
| 15   | 2   | 3503248        | 3503248        | Thrust Washer                                           |

\* Part numbers are Serial Number specific. For replacement parts call the Genesis Parts Department.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0

## ASSEMBLY BLADE KIT - GDT 190 - 590



## ASSEMBLY BLADE KIT - GDT 190 - 590

| ITEM | QTY | PART NUMBER |             |             | DESCRIPTION              |
|------|-----|-------------|-------------|-------------|--------------------------|
|      |     | GDT 190     | GDT 290     | GDT 390     |                          |
| 1    | 1   | 3502156     | 3502088     | 3502293     | Mach Tooth Upper LH      |
| 2    | 1   | 3502158     | 3502086     | 3502291     | Mach Tooth Upper RH      |
| 3    | 2   | 3502154     | 3502094     | 3502297     | Mach Tooth Lower Outside |
| 4    | 2   | 3502152     | 3502090     | 3502295     | Mach Tooth Lower Inside  |
| 5    | 4   | 3502149     | 3502013     | 3502299     | Mach Blade               |
| 6    | 2   | 3502121     | 3502101     | 3502287     | Mach Pin Teeth Upper     |
| 7    | 4   | 3502122     | 3502102     | 3502288     | Mach Pin Teeth Lower     |
| 8    | 7   | F0124130*   | F0127130*   | F0127130*   | Hex Head Capscrew        |
| 9    | 18  | F0124100**  | F0127100**  | F0127120**  | Hex Head Capscrew        |
| 10   | 8   | F1202444    | F1202750    | F1202750    | Washer                   |
| 11   | 4   | F0124130*** | F0127130*** | F0127160*** | Hex Head Capscrew        |

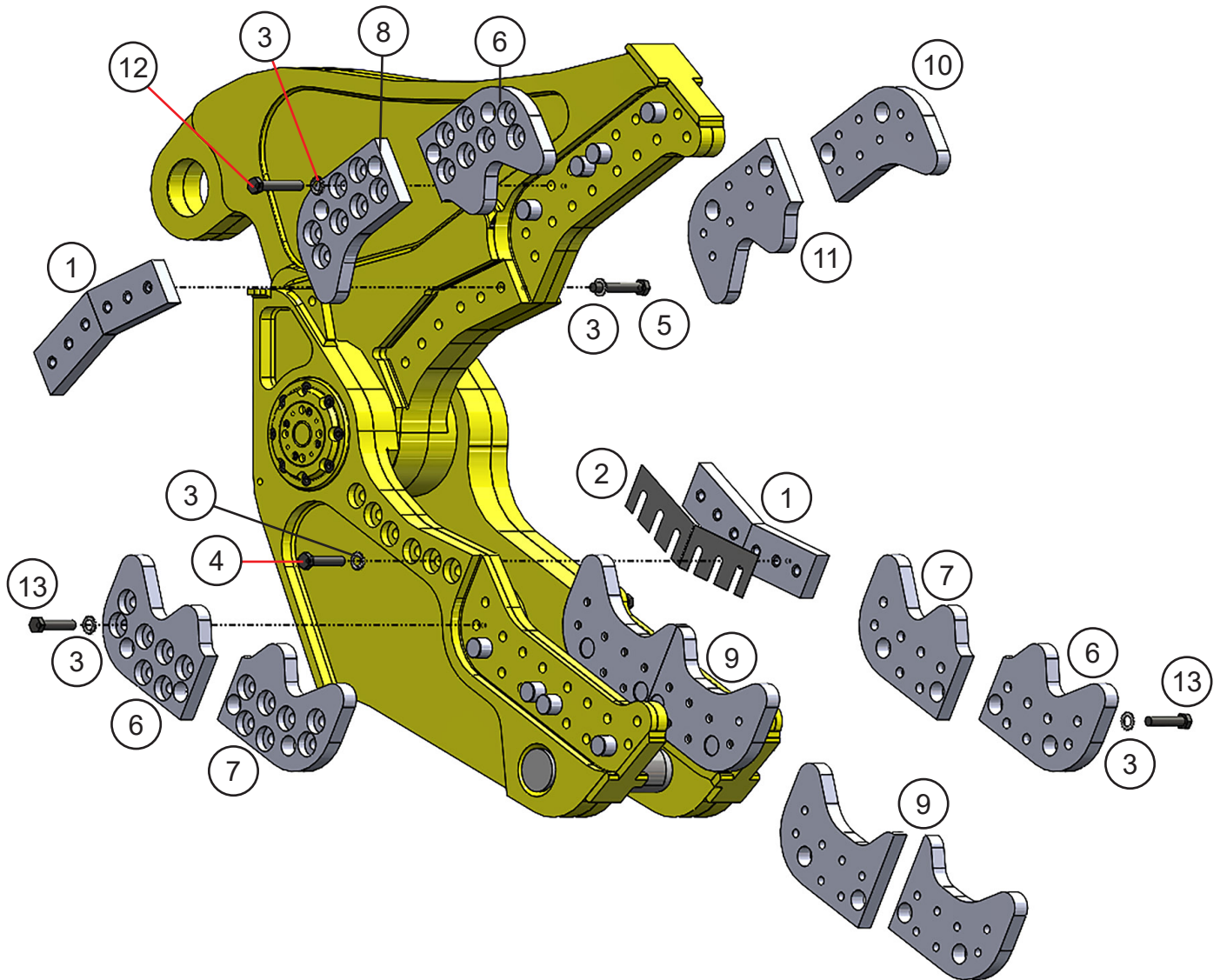
\* GDT 190 M24 x 3 x 130, GDT 290 & 390 M27 x 3 x 130

\*\* GDT 190 M24 x 3 x 100, GDT 290 M27 x 3 x 100, GDT 390 M27 x 3 x 120

\*\*\* GDT 190 M24 x 3 x 130, GDT 290 M27 x 3 x 130, GDT 390 M27 x 3 x 160

| ITEM | QTY | PART NUMBER | DESCRIPTION                                              |
|------|-----|-------------|----------------------------------------------------------|
|      |     | GDT 590     |                                                          |
| 1    | 1   | 3502740     | Mach Tooth Upper LH                                      |
| 2    | 1   | 3502736     | Mach Tooth Upper RH                                      |
| 3    | 2   | 3502738     | Mach Tooth Lower Outside                                 |
| 4    | 2   | 3502741     | Mach Tooth Lower Inside                                  |
| 5    | 4   | 3502705     | Mach Blade                                               |
| 6    | 2   | 3502721     | Mach Pin Teeth Upper                                     |
| 7    | 4   | 3502722     | Mach Pin Teeth Lower                                     |
| 8    | 7   | F0130190    | Hex Head Capscrew M30 x 3.5 x 190                        |
| 9    | 14  | F0130150    | Hex Head Capscrew M30 x 3.5 x 150 Lower Teeth Bolts only |
| 10   | 12  | F1202444    | Washer                                                   |
| 11   | 6   | F0124200    | Hex Head Capscrew M24 x 3 x 200 Upper Blade Bolts        |
| 12   | 6   | F0124140    | Hex Head Capscrew M24 x 3 x 140 Lower Blade Bolts        |

## ASSEMBLY BLADE KIT - GDT 890

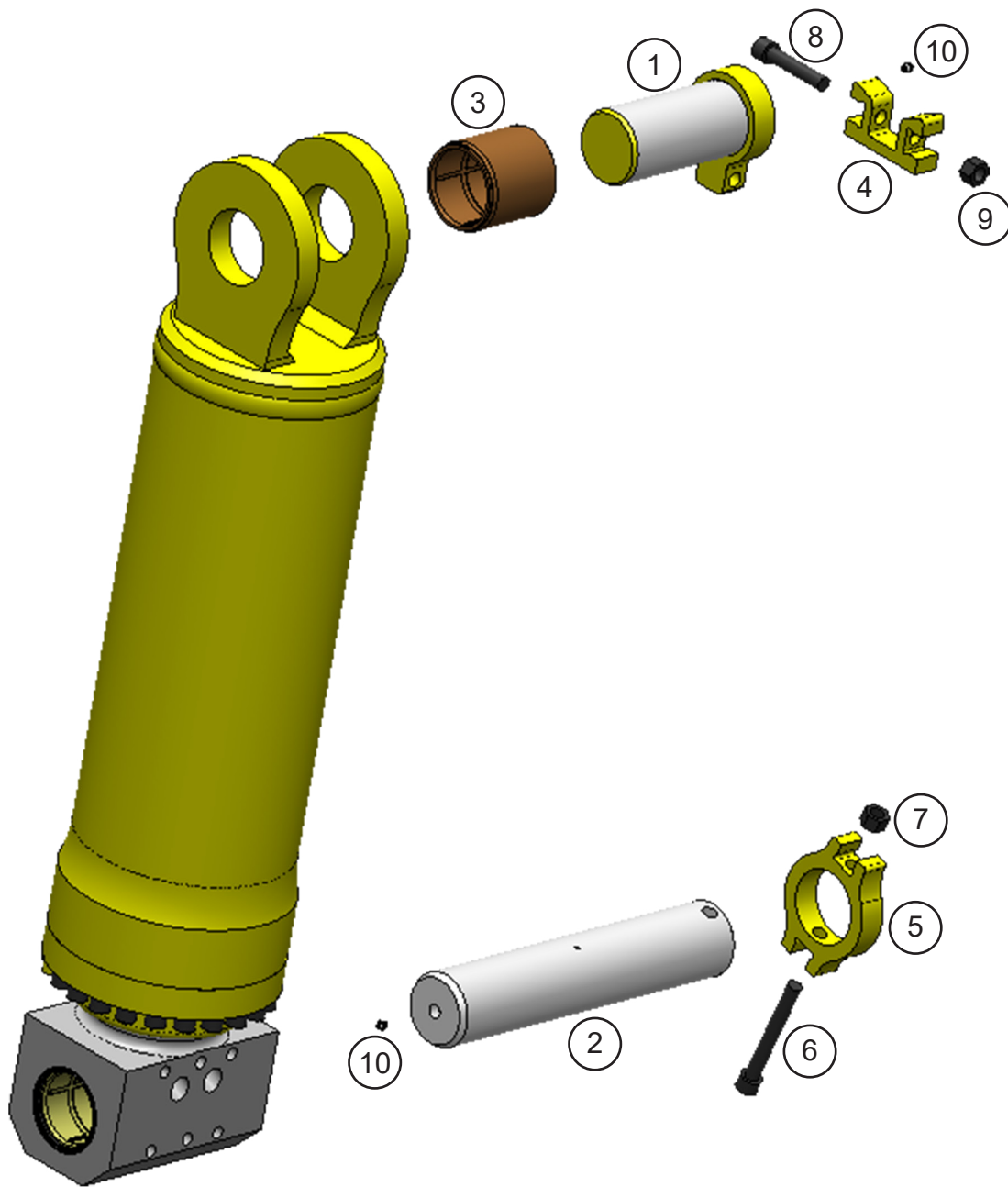


## ASSEMBLY BLADE KIT - GDT 890

| ITEM | QTY | PART NUMBER | DESCRIPTION                     |
|------|-----|-------------|---------------------------------|
| 1    | 4   | 3503647     | Mach Blade                      |
| 2    | 2   | 3503496     | Shim Set Blade                  |
| 3    | 54  | F2803300    | Washer                          |
| 4    | 6   | F0213575    | Hex Head Capscrew 1¼ x 7 x 5.75 |
| 5    | 6   | F0213825    | Hex Head Capscrew 1¼ x 7 x 8.25 |
| 6    | 3   | 3503509     | Mach Tooth RH C'Bore 2pt        |
| 7    | 2   | 3503510     | Mach Tooth LH C'Bore 2pt        |
| 8    | 1   | 3503513     | Mach Tooth LH C'Bore 1pt        |
| 9    | 4   | 3503648     | Mach Tooth RH Tapped 1.5pt      |
| 10   | 1   | 3503645     | Mach Tooth Tapped 1pt           |
| 11   | 1   | 3503646     | Mach Tooth Tapped 2pt           |
| 12   | 14  | F0213750    | Hex Head Capscrew 1¼ x 7 x 7.50 |
| 13   | 28  | F0213600    | Hex Head Capscrew 1¼ x 7 x 6.00 |



## ASSEMBLY CYLINDER PINS



## ASSEMBLY CYLINDER PINS

| ITEM | QTY | PART NUMBER    |                |                | DESCRIPTION            |
|------|-----|----------------|----------------|----------------|------------------------|
|      |     | <b>GDT 190</b> | <b>GDT 290</b> | <b>GDT 390</b> |                        |
| 1    | 1   | 3502115        | 3501988        | 3500637        | Wldt Upper Cyl Pin     |
| 2    | 1   | 3502117        | 3501987        | 3502285        | Mach Pin Rear Cyl Pin  |
| 3    | 1   | 3502114        | 3501986        | 3100133        | Mach Upper Cyl Bearing |
| 4    | 1   | 3501246        | 3500350        | 3500350        | Mach Pin Keeper        |
| 5    | 1   | 3500831        | 3500309        | 1103607        | Mach Pin Keeper        |
| 6    | 1   | F0616150*      | F0620160*      | F0620180*      | Socket Head Capscrew   |
| 7    | 1   | F1016200**     | F1020250**     | F1020250**     | Nylock Hex Nut         |
| 8    | 1   | F0612070***    | F0620100***    | F0620100***    | Socket Head Capscrew   |
| 9    | 1   | F1012175****   | F1020250****   | F1020250****   | Nylock Hex Nut         |
| 10   | 2   | 6200002        | 6200002        | 6200002        | Grease Fitting         |

\* GDT 190 M16 x 2 x 150, GDT 290 M20 x 2.5 x 160, GDT 390 M20 x 2.5 x 180

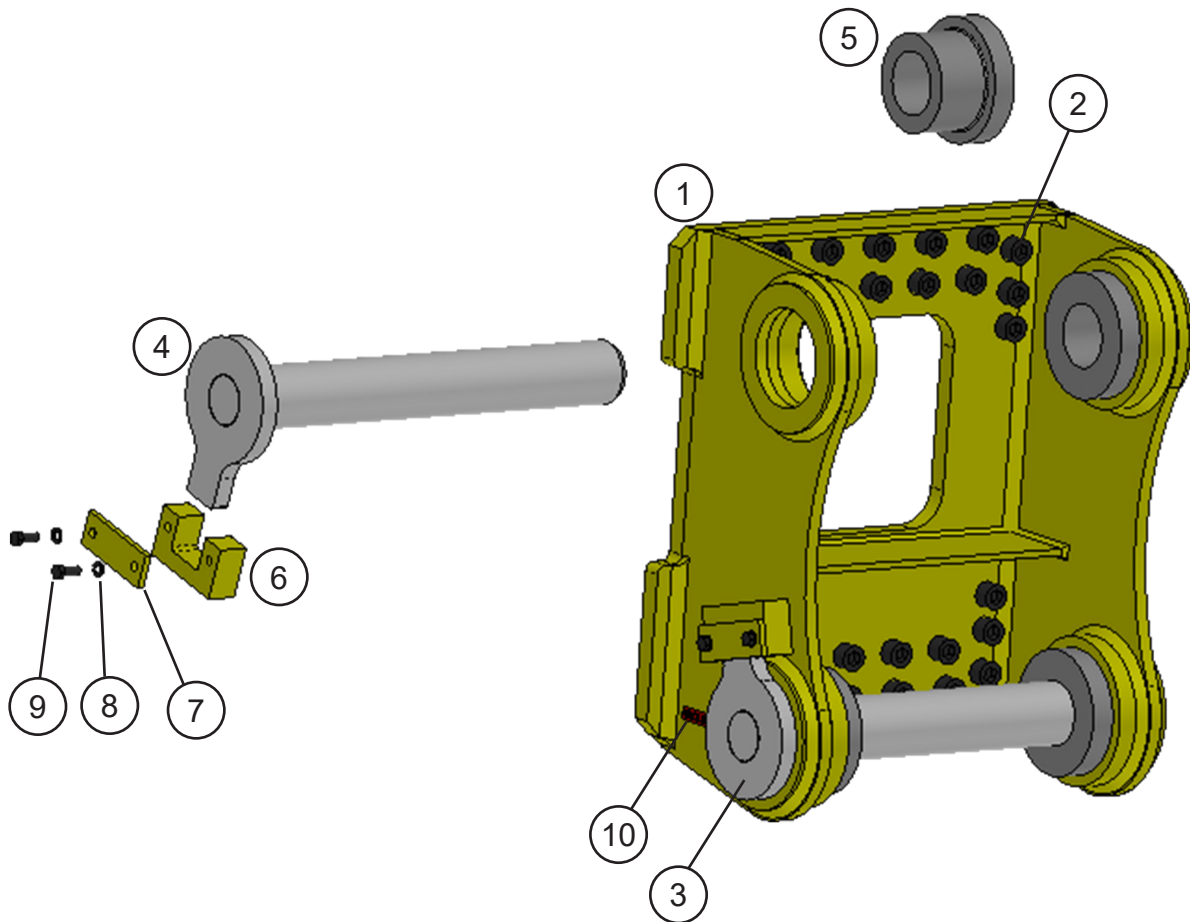
\*\* GDT 190 M16 x 2, GDT 290 & 390 M20 x 2.5

\*\*\* GDT 190 M12 x 1.75 x 70, GDT 290 & 390 M20 x 2.5 x 100

\*\*\*\* GDT 190 M12, GDT 290 & 390 M20 x 2.5

| ITEM | QTY | PART NUMBER    |                | DESCRIPTION                          |
|------|-----|----------------|----------------|--------------------------------------|
|      |     | <b>GDT 590</b> | <b>GDT 890</b> |                                      |
| 1    | 1   | 3502732        | 3503485        | Wldt Upper Cyl Pin                   |
| 2    | 1   | 3502731        | 3503489        | Mach Pin Rear Cyl Pin                |
| 3    | 1   | 3502730        | 1106664        | Mach Upper Cyl Bearing               |
| 4    | 1   | 3500350        | 1102487        | Mach Pin Keeper                      |
| 5    | 1   | 3502725        | 1106675        | Mach Pin Keeper                      |
| 6    | 1   | F0620200       |                | Socket Head Capscrew M20 x 2.5 x 200 |
|      | 1   |                | F0620230       | Socket Head Capscrew M20 x 2.5 x 230 |
| 7    | 1   | F1020250       | F1020250       | Nylock Hex Nut                       |
| 8    | 1   | F0620100       |                | Socket Head Capscrew M20 x 2.5 x 100 |
|      | 1   |                | F0620130       | Socket Head Capscrew M20 x 2.5 x 130 |
| 9    | 1   | F1020250       | F1020250       | Nylock Hex Nut                       |
| 10   | 2   | 6200002        | 6200002        | Grease Fitting                       |

## ASSEMBLY LUGS



## ASSEMBLY LUGS

| ITEM | QTY | PART NUMBER          | DESCRIPTION        |
|------|-----|----------------------|--------------------|
|      |     | <b>GDT 190 - 890</b> |                    |
| 1    | 1   | **                   | Wtmg Lugs          |
| 2    | *   | **                   | Bracket Fasteners  |
| 3    | 1   | **                   | Wldt Stick Pin     |
| 4    | 1   | **                   | Wldt Link Pin      |
| 5    | *   | **                   | Mach Spacer Sleeve |
| 6    | 2   | **                   | Mach Pin Keeper    |
| 7    | 2   | **                   | Bar Strap          |
| 8    | 4   | **                   | Washer             |
| 9    | 4   | **                   | Hex Head Capscrew  |
| 10   | 1   | **                   | Stick Pin Decal    |

\* Quantity is dependent upon the bracket.

\*\* Part numbers are Serial Number specific. For replacement parts call the Genesis Parts Department.

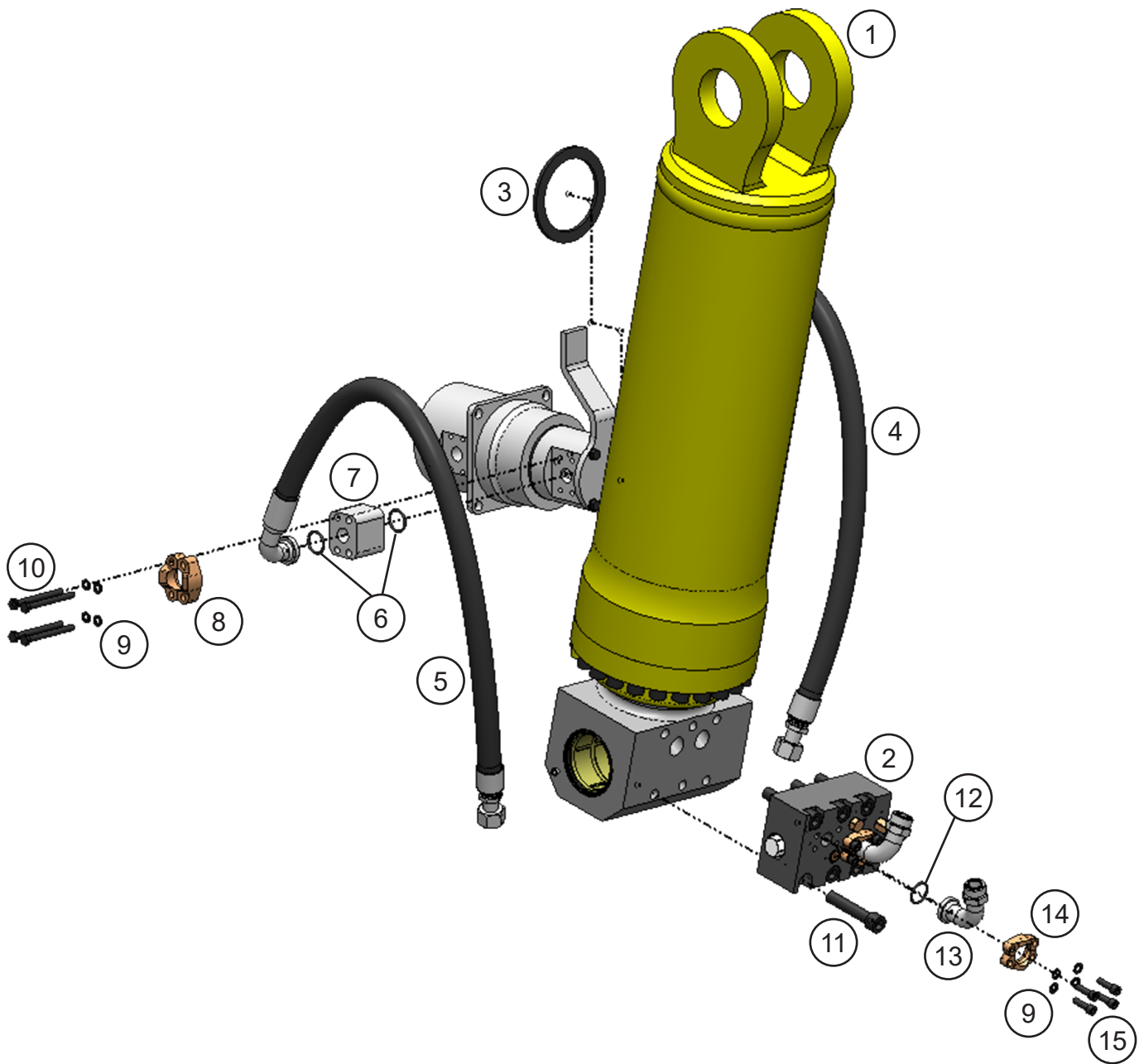
### USA

715-395-3488

### Europe

+49 83 31 9 25 98 0

## ASSEMBLY CYLINDER



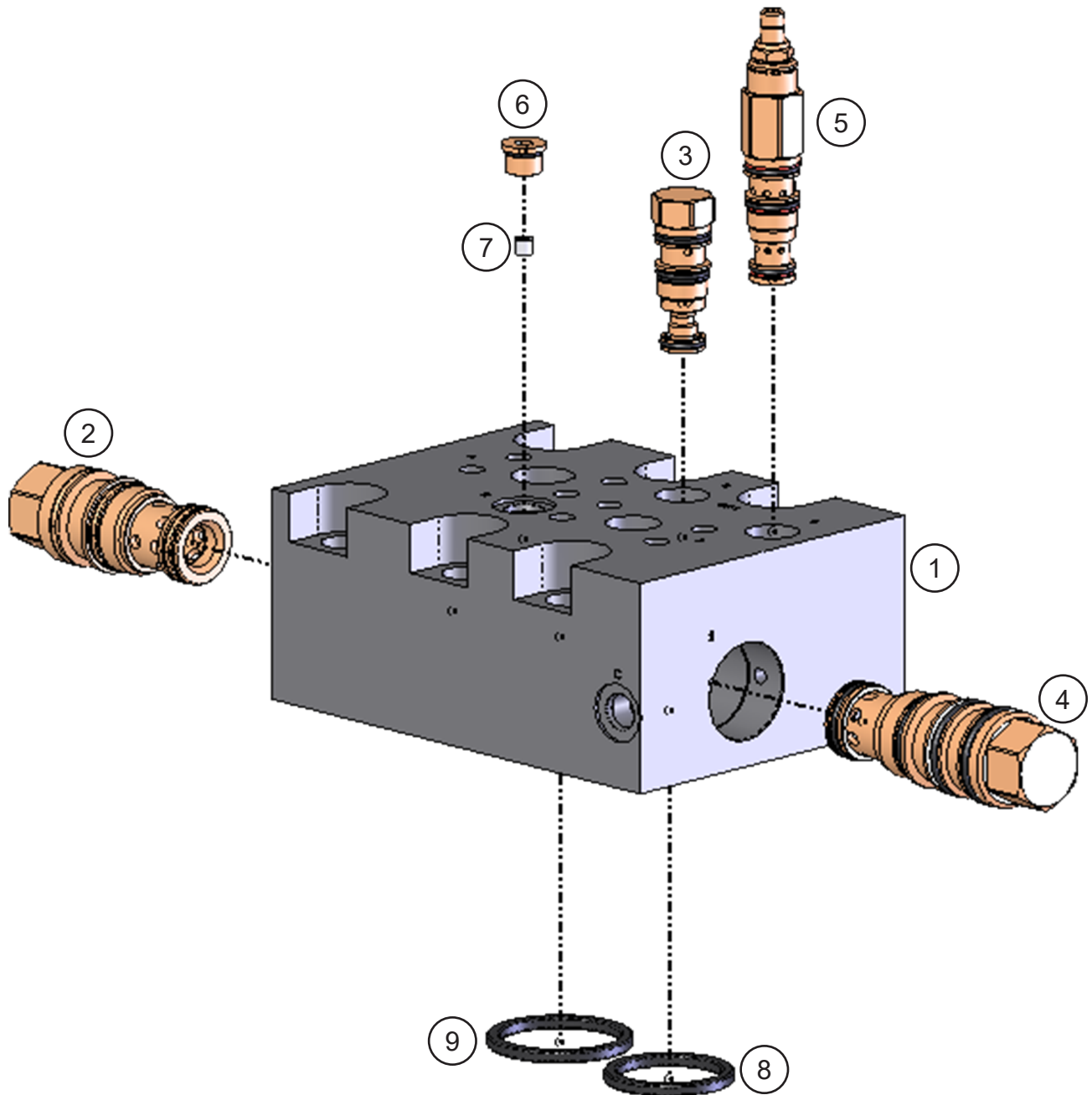
## ASSEMBLY CYLINDER

| ITEM | QTY | PART NUMBER                          |                      |                       | DESCRIPTION                              |
|------|-----|--------------------------------------|----------------------|-----------------------|------------------------------------------|
|      |     | GDT 190                              | GDT 290              | GDT 390               |                                          |
| 1    | 1   | 6350114                              | 6350102              | 6350126               | Hydraulic Cylinder                       |
|      | 1   | Contact the Genesis Parts Department |                      |                       | Cylinder Seal Kit                        |
| 2    | 1   | 6301255                              | 6301255              | 6301254               | Valve - GenFlow                          |
| 3    | 1   | 3501997                              | 3501997              | 3501997               | Swivel Gasket                            |
| 4    | 1   | 3502120<br>3502582*                  | 3502103<br>3502580** | 3502290<br>3502584*** | Hose                                     |
| 5    | 1   | 3502119<br>3502581*                  | 3501995<br>3502579** | 3502289<br>3502583*** | Hose                                     |
| 6    | 4   | S0190219                             | S0190219             | S0190219              | O-Ring                                   |
| 7    | 2   | 6310199                              | 6310191              | 6310191               | Mach Port Spacer                         |
| 8    | 4   | H0262100                             | H0262100             | H0262100              | Split Flange Half 1.00 Code 62           |
| 9    | 16  | F1900040                             | F1900040             | F1900040              | Wedge Lock Washer 10MM                   |
| 10   | 8   | F0110100                             | F0110110             | F0110110              | Hex Head Capscrew<br>M10 x 1.5 x 100/110 |
| 11   | 6   | F0620100                             | F0620100             | F0620100              | Socket Head Capscrew M20 x 2.5 x 100     |
| 12   | 2   | S0190219                             | S0190219             | S0190219              | O-Ring                                   |
| 13   | 2   | 6310004                              | 6310004              | 6310004               | Adapter                                  |
| 14   | 4   | H0261100                             | H0261100             | H0261100              | Split Flange Half 1.00 Code 61           |
| 15   | 8   | F0610035                             | F0610035             | F0610035              | Socket Head Capscrew M10 x 1.5 x 35      |

\* SN190127 and below    \*\* SN290131 and below    \*\*\* SN390112 and below

| ITEM | QTY | PART NUMBER                             |          | DESCRIPTION                          |
|------|-----|-----------------------------------------|----------|--------------------------------------|
|      |     | GDT 590                                 | GDT 890  |                                      |
| 1    | 1   | 6350153                                 | 6350170  | Hydraulic Cylinder                   |
|      | 1   | Contact the<br>Genesis Parts Department |          | Cylinder Seal Kit                    |
| 2    | 1   | 6360120                                 | 6360120  | Valve - GenFlow                      |
| 3    |     | NA                                      | NA       | Swivel Gasket                        |
| 4    | 1   | 3503394                                 | 3503491  | Hose                                 |
| 5    | 1   | 3502806                                 | 3503492  | Hose                                 |
| 6    | 4   | S0190222                                | S0190225 | O-Ring                               |
| 7    | 2   | 6310256                                 | 3503490  | Mach Port Spacer                     |
| 8    | 4   | H0262125                                |          | Split Flange Half 1.25 Code 62       |
|      | 4   |                                         | H0262150 | Split Flange Half 1.50 Code 62       |
| 9    | 16  | F1900050                                |          | Wedge Lock Washer 12MM               |
|      | 16  |                                         | F1900063 | Wedge Lock Washer %                  |
| 10   | 8   | F0112130                                |          | Hex Head Capscrew M12 x 1.75 x 130   |
|      | 8   |                                         | F0116170 | Hex Head Capscrew M16 x 2.0 x 170    |
| 11   | 6   | F0620100                                | F0620100 | Socket Head Capscrew M20 x 2.5 x 100 |
| 12   | 2   | S0190222                                | S0190222 | O-Ring                               |
| 13   | 2   | 6310361                                 | 6310361  | Adapter                              |
| 14   | 4   | H0262125                                | H0262125 | Split Flange Half 1.25 Code 61       |
| 15   | 4   | F0612050                                | F0612050 | Socket Head Capscrew M12 x 1.75 x 50 |

## GDT 190 & 290 REGEN BLOCK SUB-ASSEMBLY 6301255



## GDT 190 & 290 REGEN BLOCK SUB-ASSEMBLY 6301255

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |                         |
|------|-----|-------------|--------------------------------------|-------------------------|
| 1    | 1   | *           | Mach Regen Manifold                  | <b>Seal Kit SK00043</b> |
| 2    | 1   | 6380209     | Valve Check COHA-XCV                 | <b>Seal Kit SK00026</b> |
| 3    | 1   | 6300621     | Valve Shuttle CSAB-XXV               | <b>Seal Kit 6300622</b> |
| 4    | 1   | 6380038     | Valve Logic DKHS-XHV                 | <b>Seal Kit SK00026</b> |
| 5    | 1   | 6300625     | Valve PSI Reducer PRDB-LWV           | <b>Seal Kit 6300622</b> |
| 6    | 1   | 6300153     | Plug Socket Head 06MB                |                         |
| 7    | 1   | 6300903     | Mach Orifice                         |                         |
| 8    | 1   | 6300638     | O-Ring 1p-3705 High PSI Seal 2.0 OD  |                         |
| 9    | 1   | 6300723     | O-Ring 1p-3705 High PSI Seal 2.25 OD |                         |

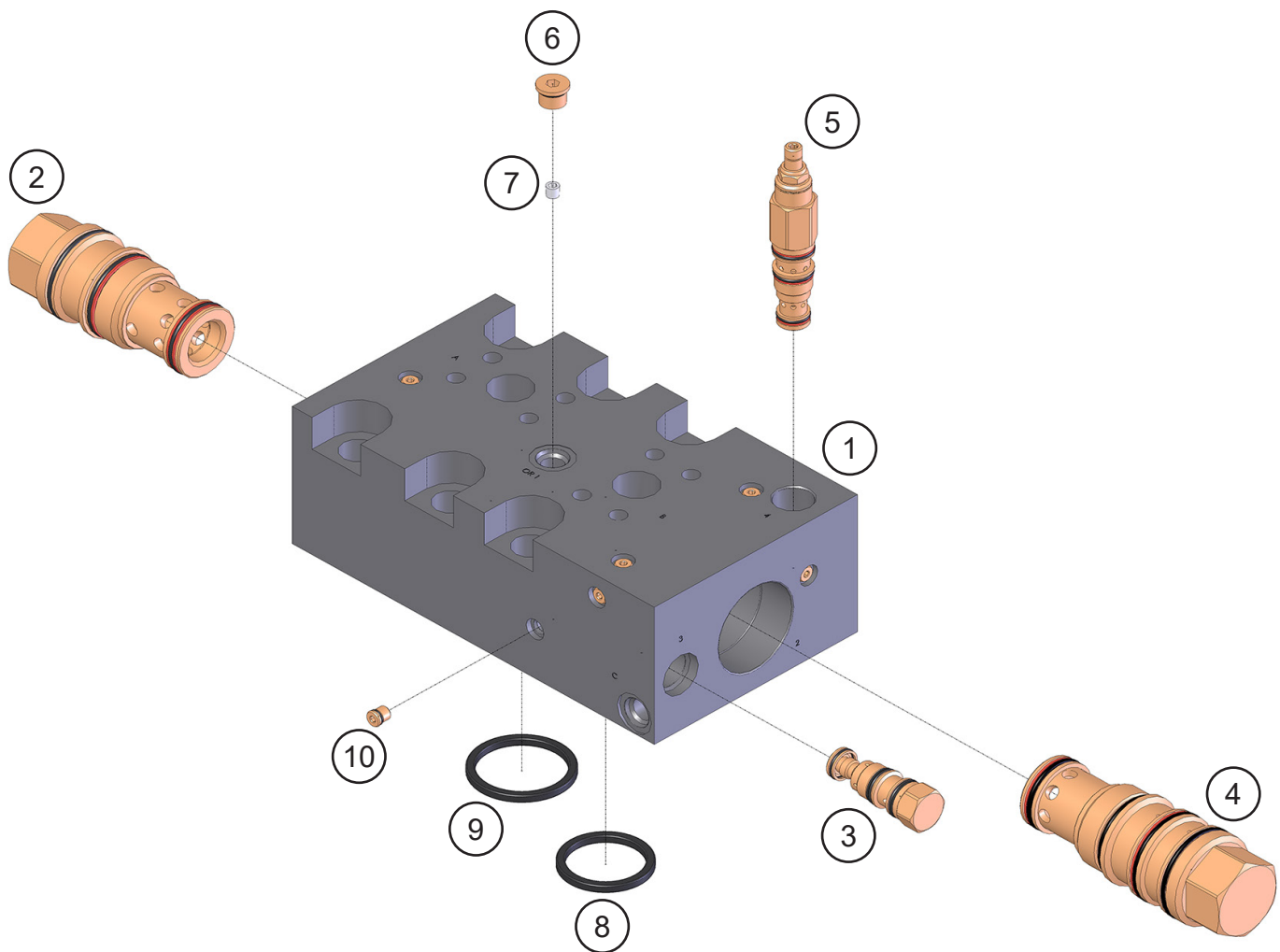
\* Part number is Serial Number specific. For replacement parts call the Genesis Parts Department.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0



## GDT 390 REGEN BLOCK SUB-ASSEMBLY 6301254



## GDT 390 REGEN BLOCK SUB-ASSEMBLY 6301254

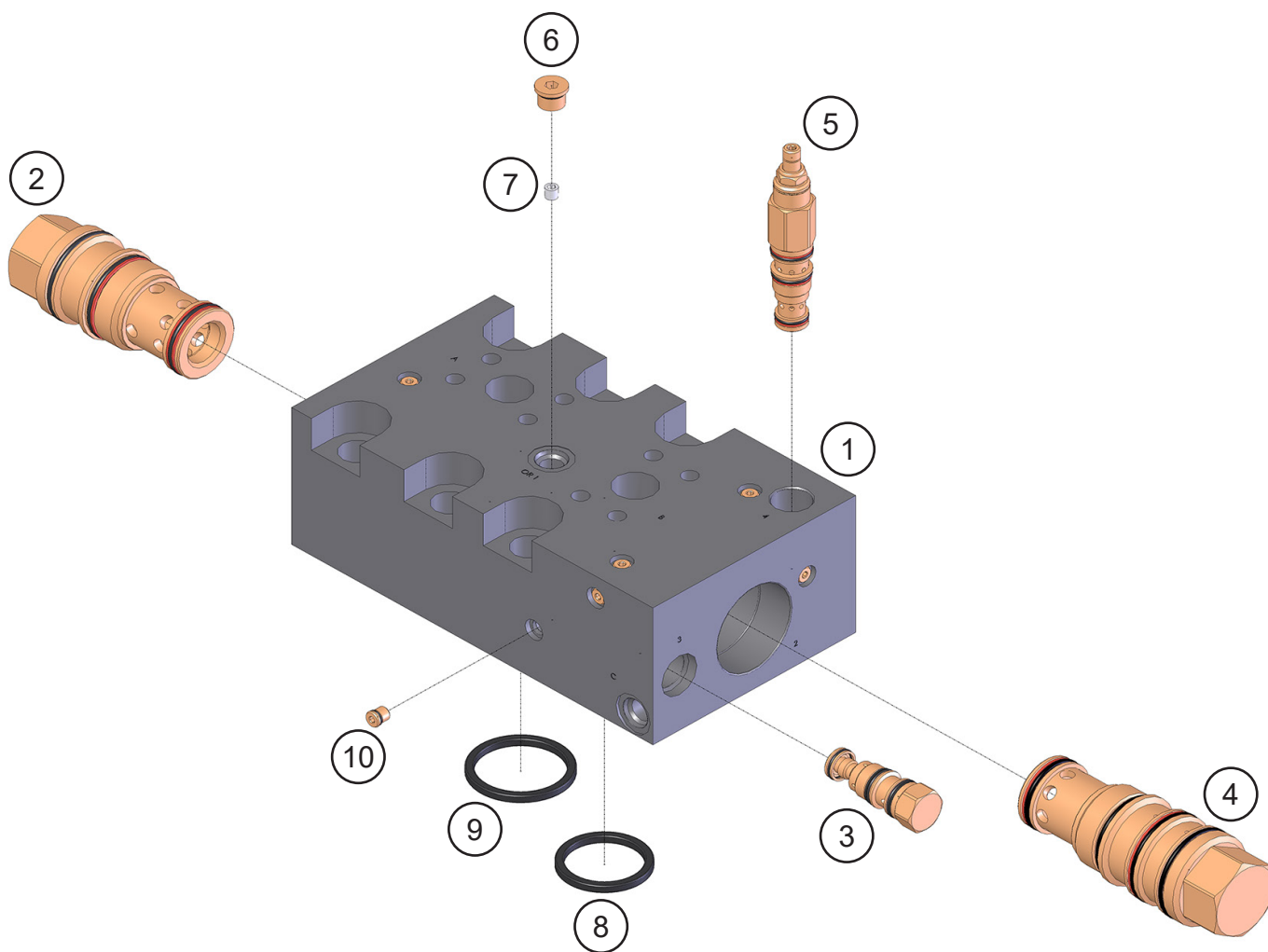
| ITEM | QTY | PART NUMBER | DESCRIPTION                          |                         |
|------|-----|-------------|--------------------------------------|-------------------------|
| 1    | 1   | *           | Mach Regen Manifold                  | <b>Seal Kit SK00047</b> |
| 2    | 1   | 6380088     | Valve Check COJA-XGV                 | <b>Seal Kit SK00024</b> |
| 3    | 1   | 6300621     | Valve Shuttle CSAB-XXV               | <b>Seal Kit 6300622</b> |
| 4    | 1   | 6300623     | Valve Logic DKJS-XHV                 | <b>Seal Kit 6300624</b> |
| 5    | 1   | 6300625     | Valve PSI Reducer PRDB-LWV           | <b>Seal Kit 6300622</b> |
| 6    | 1   | 6300153     | Plug Socket Head 06MB                |                         |
| 7    | 1   | 6300903     | Mach Orifice                         |                         |
| 8    | 1   | 6300638     | O-Ring 1p-3705 High PSI Seal 2.0 OD  |                         |
| 9    | 1   | 6300723     | O-Ring 1p-3705 High PSI Seal 2.25 OD |                         |
| 10   | 1   | 6300075     | Plug Socket Head 02MB                |                         |

\* Part number is Serial Number specific. For replacement parts call the Genesis Parts Department.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0

## GDT 590 & 890 REGEN BLOCK SUB-ASSEMBLY 6360120



## GDT 590 & 890 REGEN BLOCK SUB-ASSEMBLY 6360120

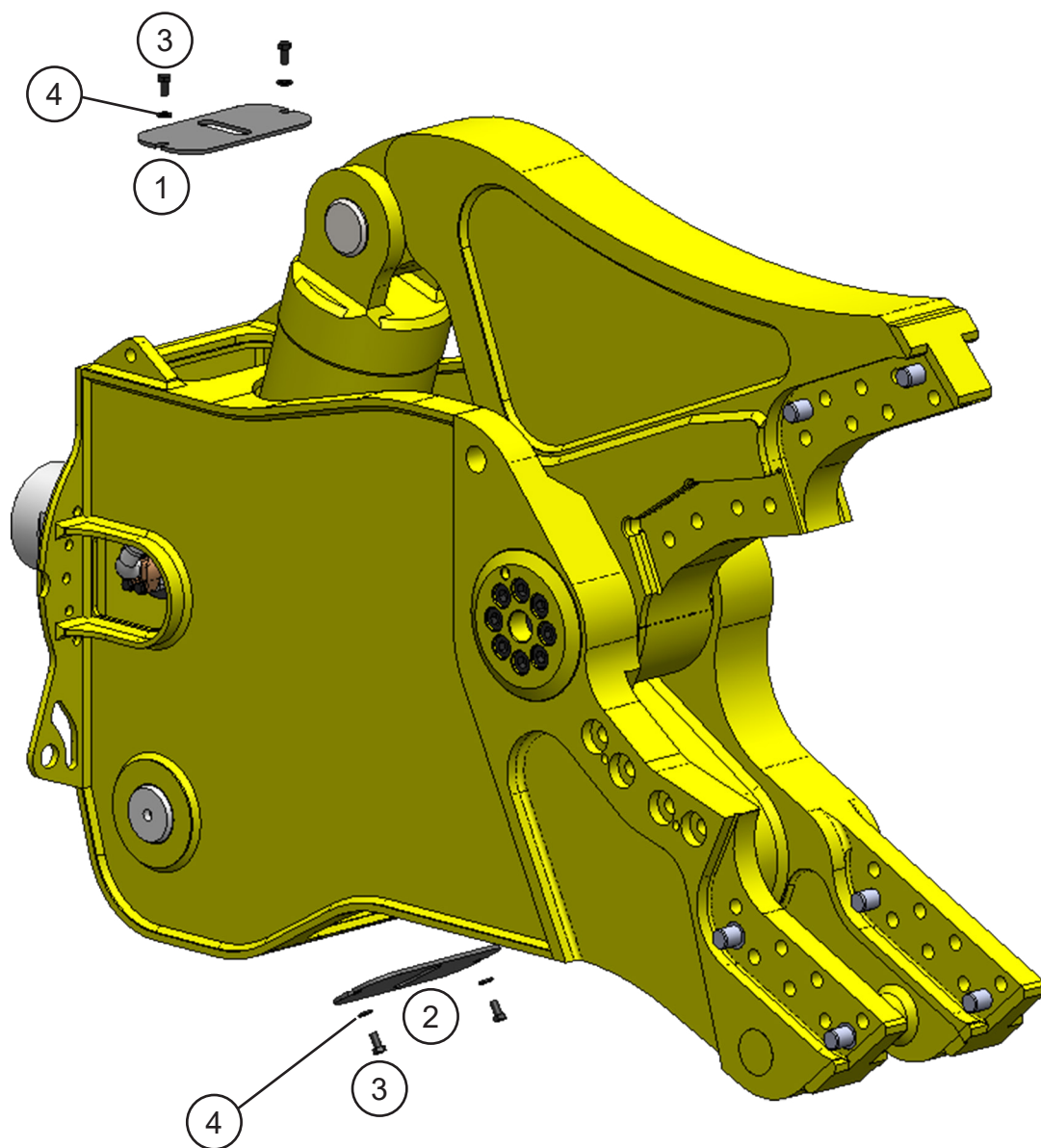
| ITEM | QTY | PART NUMBER | DESCRIPTION                          |                         |
|------|-----|-------------|--------------------------------------|-------------------------|
| 1    | 1   | *           | Mach Regen Manifold                  | <b>Seal Kit SK00047</b> |
| 2    | 1   | 6380088     | Valve Check COJA-XGV                 | <b>Seal Kit SK00024</b> |
| 3    | 1   | 6300621     | Valve Shuttle CSAB-XXV               | <b>Seal Kit 6300622</b> |
| 4    | 1   | 6300623     | Valve Logic DKJS-XHV                 | <b>Seal Kit 6300624</b> |
| 5    | 1   | 6300625     | Valve PSI Reducer PRDB-LWV           | <b>Seal Kit 6300622</b> |
| 6    | 1   | 6300153     | Plug Socket Head 06MB                |                         |
| 7    | 1   | 6300903     | Mach Orifice                         |                         |
| 8    | 1   | 6300638     | O-Ring 1p-3705 High PSI Seal 2.0 OD  |                         |
| 9    | 1   | 6300723     | O-Ring 1p-3705 High PSI Seal 2.25 OD |                         |
| 10   | 1   | 6300075     | Plug Socket Head 02MB                |                         |

\* Part number is Serial Number specific. For replacement parts call the Genesis Parts Department.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0

## ACCESS COVERS

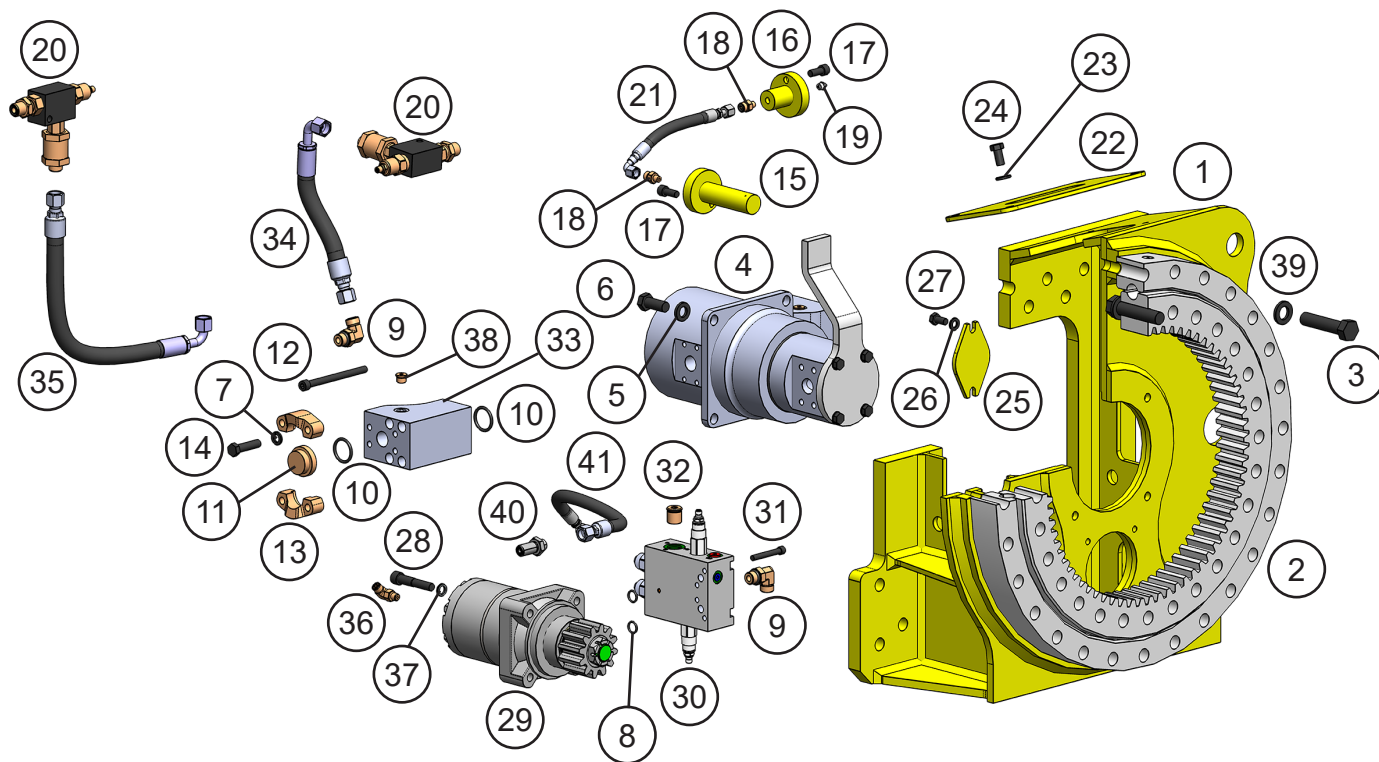


## ACCESS COVERS

| ITEM | QTY | PART NUMBER    |                |                | DESCRIPTION                       |
|------|-----|----------------|----------------|----------------|-----------------------------------|
|      |     | <b>GDT 190</b> | <b>GDT 290</b> | <b>GDT 390</b> |                                   |
| 1    | 1   | 3502118        | 3503383        | 3502286        | Plt Cover                         |
| 2    | 1   | 3502118        | 3503383        | 3502286        | Plt Cover                         |
| 3    | 4   | F0112025       | F0112025       | F0112025       | Hex Head Capscrew M12 x 1.75 x 25 |
| 4    | 4   | F1201224       | F1201224       | F1201224       | Flat Washer M12                   |

| ITEM | QTY | PART NUMBER    |                | DESCRIPTION                          |
|------|-----|----------------|----------------|--------------------------------------|
|      |     | <b>GDT 590</b> | <b>GDT 890</b> |                                      |
| 1    | 1   | 3502804        | 3503487        | Plt Cover                            |
| 2    | 1   | 3502804        | 3503488        | Plt Cover                            |
| 3    | 4   | F0112025       | F0612025       | Socket Head Capscrew M12 x 1.75 x 25 |
| 4    | 4   | F1401200       | F1401200       | Lock Washer M12                      |

# GDT 190 & 290 ASSEMBLY SUB-HEAD

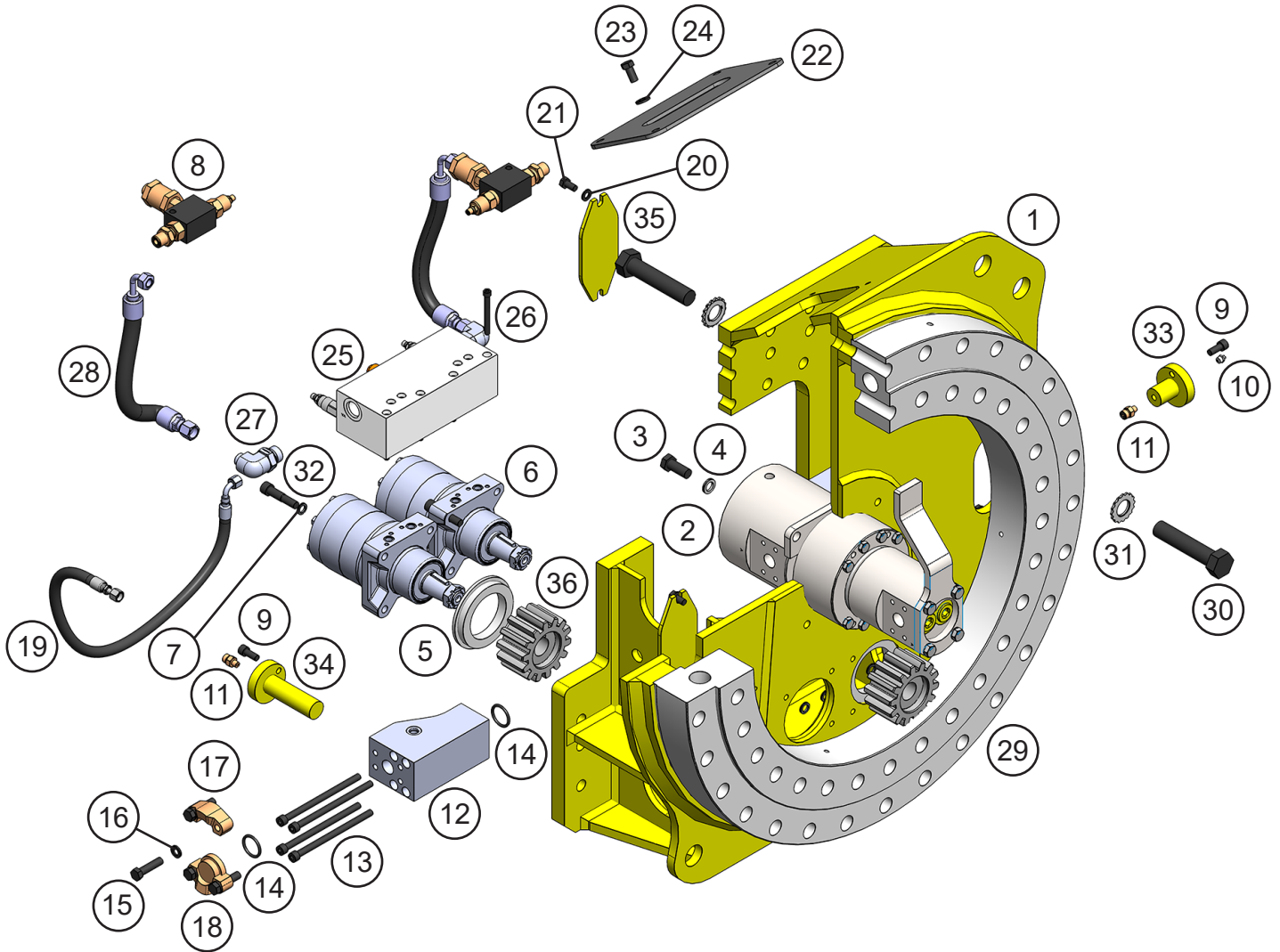


## GDT 190 & 290 ASSEMBLY SUB-HEAD

| ITEM | QTY                      | PART NUMBER |          | DESCRIPTION                                                       |
|------|--------------------------|-------------|----------|-------------------------------------------------------------------|
|      |                          | GDT 190     | GDT 290  |                                                                   |
| 1    | 1                        | 3502161     | 3502178  | Wtmg Sub-Head                                                     |
| 2    | 1                        | 6100397     | 6100092  | Slewing Ring                                                      |
| 3    | 56 GDT 190<br>66 GDT 290 | F0120090    | F0120100 | Hex Head Capscrew M20 x 2.5 x 90 GDT190<br>M20 x 2.5 x 100 GDT290 |
| 4    | 1                        | 6350185     | 6350185  | Assembly Swivel Manifold                                          |
| 5    | 4                        | F1201630    | F1201630 | Flat Washer M16                                                   |
| 6    | 4                        | F0116040    | F0116040 | Hex Head Capscrew M16 x 2.0 x 40                                  |
| 7    | 8                        | F1401200    | F1401200 | Lock Washer M12                                                   |
| 8    | 2                        | S0691620    | S0691620 | O-Ring                                                            |
| 9    | 2                        | 6300305     | 6300305  | Adapter 10MB-10MO-90                                              |
| 10   | 4                        | S0190219    | S0190219 | O-Ring                                                            |
| 11   | 2                        | H0362100    | H0362100 | Split Flange Plug 1.00                                            |
| 12   | 8                        | F0610130    | F0610130 | Socket Head Capscrew M10 x 1.5 x 130                              |
| 13   | 4                        | H0262100    | H0262100 | Split Flange Half 1.00 Code 62                                    |
| 14   | 8                        | F0112050    | F0112050 | Hex Head Capscrew M12 x 1.75 x 50                                 |
| 15   | 1                        | 5512419     | 5512419  | Mach Slewing Ring Grease Adapter                                  |
| 16   | 1                        | 5512411     | 5512411  | Mach Grease Bulkhead Adapter                                      |
| 17   | 2                        | F0610025    | F0610025 | Socket Head Capscrew M10 x 1.5 x 25                               |
| 18   | 2                        | 6300731     | 6300731  | Adapter 02MP-04MO                                                 |
| 19   | 1                        | 6200002     | 6200002  | Grease Fitting                                                    |
| 20   | 2                        | 6301202     | 6301202  | Flow Control Sub-Assembly                                         |
| 21   | 1                        | 3502188     | 3502034  | Hose                                                              |
| 22   | 1                        | 3502190     | 3502027  | Plt Cover                                                         |
| 23   | 4                        | F1201224    | F1201224 | Flat Washer M12                                                   |
| 24   | 4                        | F0112025    | F0112025 | Hex Head Capscrew M12 x 1.75 x 25                                 |
| 25   | 2                        | 3502191     | 1100319  | Plt Cover                                                         |
| 26   | 4                        | F1201021    | F1201021 | Flat Washer M10                                                   |
| 27   | 4                        | F0110020    | F0110020 | Hex Head Capscrew M10 x 1.5 x 20                                  |
| 28   | 4                        | 1108011     | 1108011  | Socket Head Capscrew M12 x 1.75 x 70 (Custom Shaft)               |
| 29   | 1                        | 6380102     | 6380102  | Motor Sub-Assembly                                                |
| 30   | 1                        | 6360102     | 6360102  | Valve Rotate C'over/C'bal                                         |
| 31   | 4                        | F0608060    | F0608060 | Socket Head Capscrew M8 x 1.25 x 60                               |
| 32   | 2                        | 6300077     | 6300077  | Plug Socket Head 10MB                                             |
| 33   | 2                        | 3502323     | 3502323  | Mach Port Block                                                   |
| 34   | 1                        | 3502186     | 3502185  | Hose                                                              |
| 35   | 1                        | 3502187     | 3502184  | Hose                                                              |
| 36   | 1                        | 6300768     | 6300768  | Adapter 04MB-04MO-90                                              |
| 37   | 4                        | F1900050    | F1900050 | Wedge Lock Washer ½                                               |
| 38   | 4                        | 6300153     | 6300153  | Plug Socket Head 06MB                                             |
| 39   | 56                       | F1202037    | NA       | Flat Washer M20                                                   |
| 40   | 1                        | 6301076     | 6301076  | Adapter Bulkhead 06MO-06MO                                        |
| 41   | 1                        | 3502324     | 3502324  | Hose                                                              |



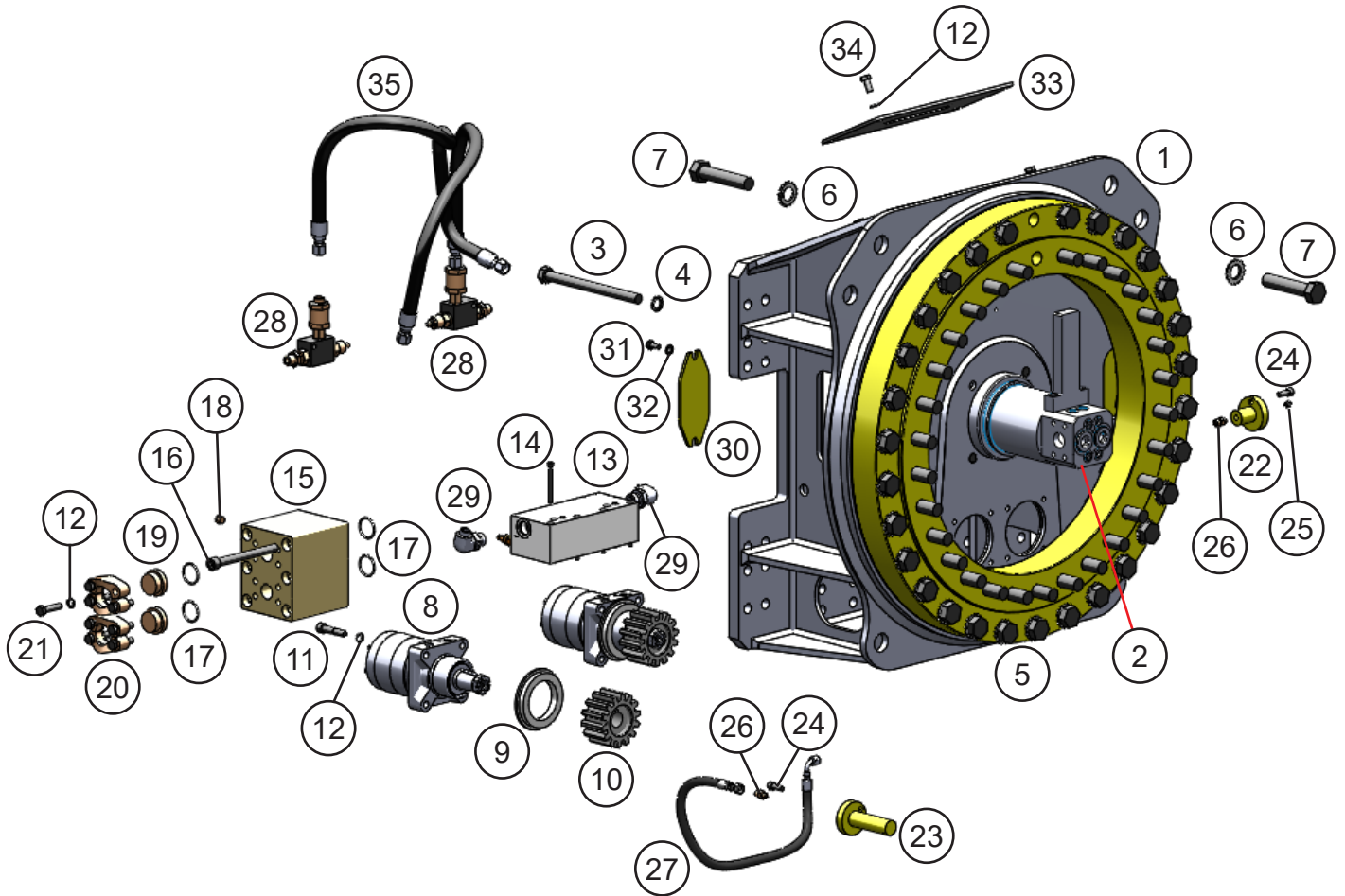
# GDT 390 ASSEMBLY SUB-HEAD



## GDT 390 ASSEMBLY SUB-HEAD

| ITEM | QTY | PART NUMBER | DESCRIPTION                                            |
|------|-----|-------------|--------------------------------------------------------|
| 1    | 1   | 3502682     | Wtmg Sub-Head                                          |
| 2    | 1   | 6350127     | Assembly Swivel Manifold                               |
| 3    | 4   | F0116040    | Hex Head Capscrew M16 x 2.0 x 40                       |
| 4    | 4   | F1900063    | Wedge Lock Washer 5/8"                                 |
| 5    | 2   | 3501835     | Mach Spacer                                            |
| 6    | 2   | 6380083     | Motor                                                  |
| 7    | 8   | F1900050    | Wedge Lock Washer 1/2"                                 |
| 8    | 2   | 6301202     | Flow Control Sub-Assembly                              |
| 9    | 2   | F0610025    | Socket Head Capscrew M10 x 1.5 x 25                    |
| 10   | 1   | 6200002     | Grease Fitting                                         |
| 11   | 2   | 6300731     | Adapter 02MP-04MO                                      |
| 12   | 2   | 3502315     | Mach Port Block                                        |
| 13   | 8   | F0610170    | Socket Head Capscrew M10 x 1.5 x 170                   |
| 14   | 4   | S0190219    | O-Ring                                                 |
| 15   | 8   | F0112050    | Hex Head Capscrew M12 x 1.75 x 50                      |
| 16   | 8   | F1401200    | Lock Washer M12                                        |
| 17   | 4   | H0262100    | Split Flange Half 1.00 Code 62                         |
| 18   | 2   | H0362100    | Split Flange Plug 1.00                                 |
| 19   | 1   | 3502313     | Hose                                                   |
| 20   | 4   | F1201021    | Flat Washer M10                                        |
| 21   | 4   | F0110020    | Hex Head Capscrew M10 x 1.5 x 20                       |
| 22   | 1   | 3502320     | Plt Cover                                              |
| 23   | 4   | F0112025    | Hex Head Capscrew M12 x 1.75 x 25                      |
| 24   | 4   | F1201224    | Flat Washer M12                                        |
| 25   | 1   | 6360143     | Valve Rotate Cross-over / C'bal                        |
| 26   | 8   | F0731300    | Socket Head Capscrew 5/16 -18 x 3"                     |
| 27   | 2   | 6310082     | Adapter 12MB-08MO-90                                   |
| 28   | 2   | 3502686     | Hose                                                   |
| 29   | 1   | 6300429     | Slewing Ring                                           |
| 30   | 60  | F0127130    | Hex Head Capscrew M27 x 3 x 130                        |
| 31   | 60  | F2802700    | Hytorc Washer M27                                      |
| 32   | 8   | 1108183     | Socket Head Capscrew M12 x 1.75 x 60<br>(Custom Shaft) |
| 33   | 1   | 5512411     | Mach Grease Bulkhead Adapter                           |
| 34   | 1   | 5512419     | Mach Slewing Ring Grease Adapter                       |
| 35   | 2   | 1105883     | Plt Cover                                              |
| 36   | 2   | 3101235     | Motor Pinion                                           |

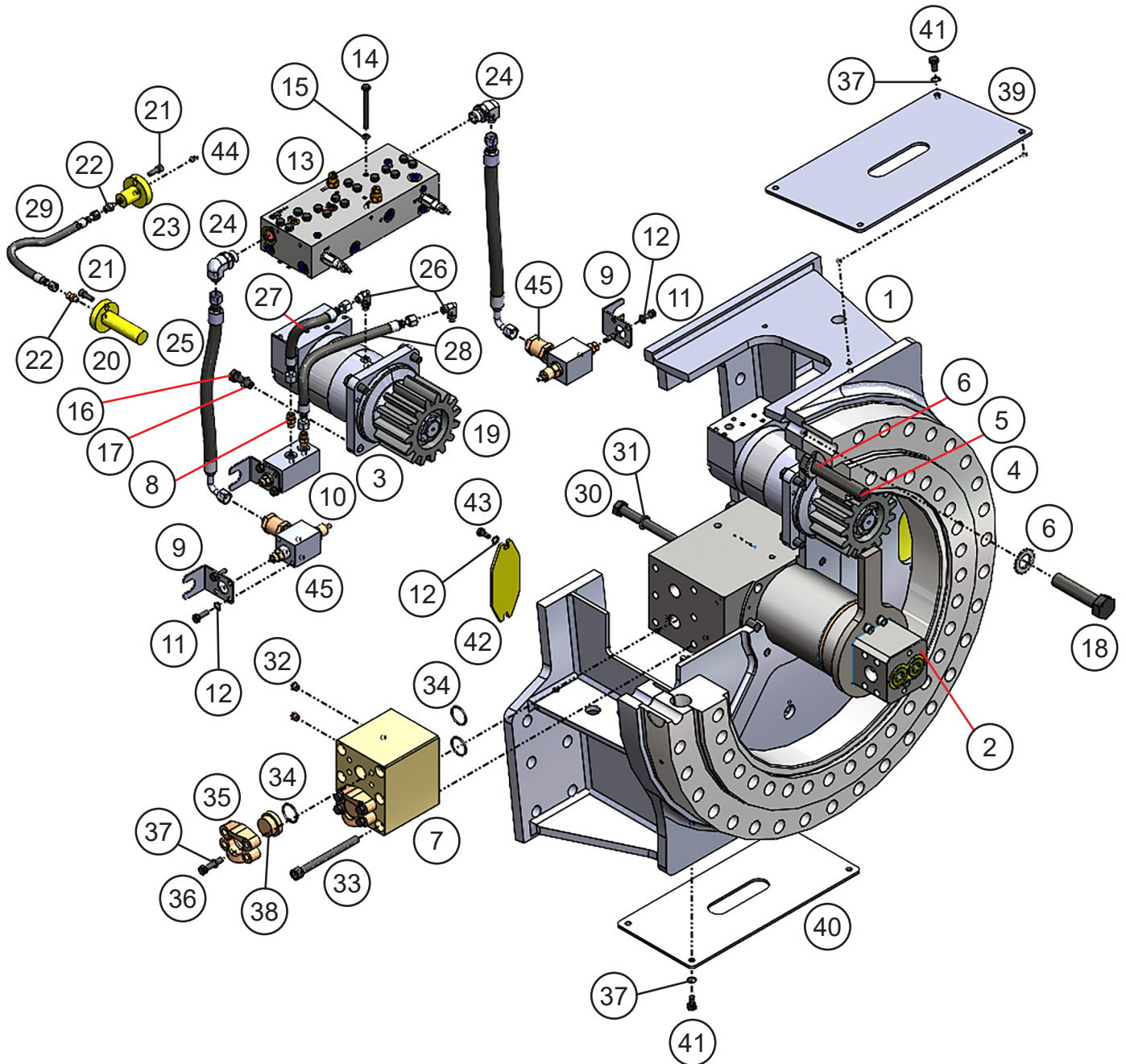
# GDT 590 ASSEMBLY SUB-HEAD



## GDT 590 ASSEMBLY SUB-HEAD

| ITEM | QTY | PART NUMBER | DESCRIPTION                                         |
|------|-----|-------------|-----------------------------------------------------|
| 1    | 1   | 3502533     | Wtmg Sub-Head                                       |
| 2    | 1   | 6350135     | Assembly Swivel Manifold                            |
| 3    | 4   | F0120260    | Hex Head Capscrew M20 x 2.5 x 260                   |
| 4    | 4   | F1900075    | Wedge Lock Washer ¾                                 |
| 5    | 1   | 6300429     | Slewing Ring                                        |
| 6    | 60  | F2802700    | Hytorc Washer M27                                   |
| 7    | 60  | F0127130    | Hex Head Capscrew M27 x 3.0 x 130                   |
| 8    | 2   | 6380083     | Motor                                               |
| 9    | 2   | 3501835     | Mach Spacer                                         |
| 10   | 2   | 3101235     | Motor Pinion                                        |
| 11   | 8   | 1108183     | Socket Head Capscrew M12 x 1.75 x 60 (Custom Shaft) |
| 12   | 28  | F1900050    | Wedge Lock Washer ½                                 |
| 13   | 1   | 6360143     | Valve Rotate Cross-over / C'bal                     |
| 14   | 8   | F0731300    | Socket Head Capscrew 5/16 - 18 x 3                  |
| 15   | 2   | 1107091     | Mach Port Block                                     |
| 16   | 12  | F0616170    | Socket Head Capscrew M16 x 2 x 170                  |
| 17   | 8   | S0190222    | O-Ring                                              |
| 18   | 4   | 6300153     | Plug Socket Head 06MB                               |
| 19   | 4   | H0362125    | Split Flange Plug 1.25 Code 62                      |
| 20   | 8   | H0262125    | Split Flange Half 1.25 Code 62                      |
| 21   | 16  | F0112050    | Hex Head Capscrew M12 x 1.75 x 50                   |
| 22   | 1   | 5512411     | Mach Grease Bulkhead Adapter                        |
| 23   | 1   | 5512419     | Mach Slewing Ring Grease Adapter                    |
| 24   | 2   | F0610025    | Socket Head Capscrew M10 x 1.50 x 25                |
| 25   | 1   | 6200002     | Grease Fitting                                      |
| 26   | 2   | 6300731     | Adapter 02MP-04MO                                   |
| 27   | 1   | 3502313     | Hose                                                |
| 28   | 2   | 6301202     | Flow Control Sub-Assembly                           |
| 29   | 2   | 6310082     | Adapter 12MB-08MO-90                                |
| 30   | 2   | 1105883     | Plt Cover                                           |
| 31   | 4   | F0110020    | Hex Head Capscrew M10 x 1.5 x 20                    |
| 32   | 4   | F1201021    | Flat Washer M10                                     |
| 33   | 1   | 3502546     | Plt Top Cover                                       |
| 34   | 4   | F0112025    | Hex Head Capscrew M12 x 1.75 x 25                   |
| 35   | 2   | 3502805     | Hose                                                |

# GDT 890 ASSEMBLY SUB-HEAD

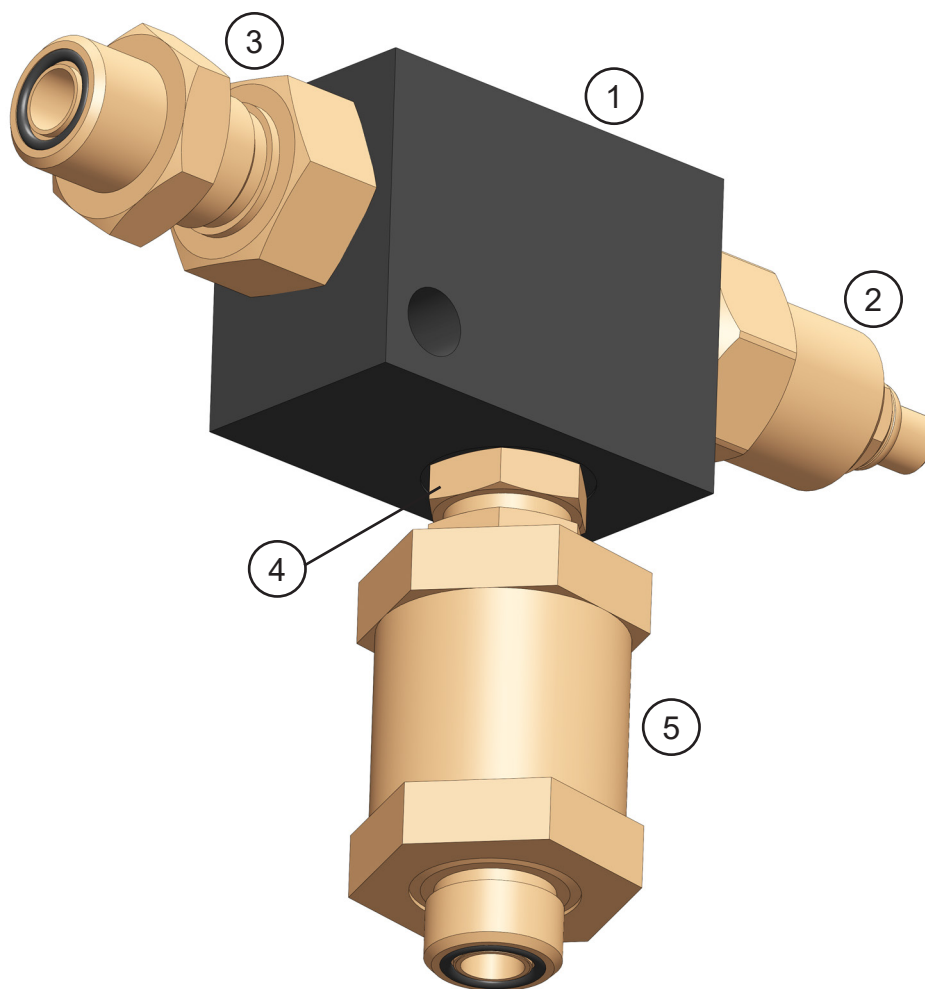


## GDT 890 ASSEMBLY SUB-HEAD

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 1    | 1   | 3503404     | Mach Sub-Head                        |
| 2    | 1   | 6350168     | Assembly Swivel Manifold             |
| 3    | 2   | 6380210     | Motor                                |
| 4    | 1   | 6300430     | Slewing Ring                         |
| 5    | 36  | F0130150    | Hex Head Capscrew M30 x 3.5 x 150    |
| 6    | 72  | F2803000    | Washer M30                           |
| 7    | 2   | 1107091     | Mach Port Block                      |
| 8    | 3   | 6300018     | Adapter 06MB-06MO                    |
| 9    | 3   | 6302660     | Bracket Hose Stem Lock Lock 90       |
| 10   | 1   | 6302661     | Manifold Case Drain                  |
| 11   | 6   | F0110030    | Hex Head Capscrew M10 x 1.5 x 30     |
| 12   | 10  | F1201021    | Flat Washer M10                      |
| 13   | 1   | 6360147     | Valve Rotate Crossover / C'bal       |
| 14   | 16  | F0110100    | Hex Head Capscrew M10 x 1.5 x 100    |
| 15   | 16  | F1900040    | Washer 10mm                          |
| 16   | 8   | F0116045    | Hex Head Capscrew M16 x 2.0 x 45     |
| 17   | 8   | F1900063    | Wedge Lock Washer 5/8                |
| 18   | 36  | F0130130    | Hex Head Capscrew M30 x 3.5 x 130    |
| 19   | 2   | 3101265     | Pinion                               |
| 20   | 1   | 5512419     | Mach Slewing Ring Grease Adapter     |
| 21   | 2   | F0610025    | Socket Head Capscrew M10 x 1.5 x 25  |
| 22   | 2   | 6300731     | Adapter 02MP-04MO                    |
| 23   | 1   | 5512411     | Mach Grease Bulkhead Adapter         |
| 24   | 2   | 6310082     | Adapter 12MB-08MO-90                 |
| 25   | 2   | 3503422     | Hose                                 |
| 26   | 2   | 6310305     | Adapter 04MBSPP-06MO-90              |
| 27   | 1   | 3503423     | Hose                                 |
| 28   | 1   | 3503424     | Hose                                 |
| 29   | 1   | 3503425     | Hose                                 |
| 30   | 6   | F0120260    | Hex Head Capscrew M20 x 2.5 x 260    |
| 31   | 6   | F1900075    | Wedge Lock Washer 3/4                |
| 32   | 4   | 6300153     | Plug Socket Head 06MB                |
| 33   | 12  | F0616170    | Socket Head Capscrew M16 x 2.0 x 170 |
| 34   | 8   | S0190222    | O-Ring                               |
| 35   | 8   | H0262125    | Split Flange Half 1.25 Code 62       |
| 36   | 16  | F0112050    | Hex Head Capscrew M12 x 1.75 x 50    |
| 37   | 24  | F1900050    | Wedge Lock Washer 1/2                |
| 38   | 4   | H0362125    | Split Flange Plug 1.25 Code 62       |
| 39   | 1   | 3503420     | Plt Top Cover                        |
| 40   | 1   | 3503421     | Plt Bottom Cover                     |
| 41   | 8   | F0112020    | Hex Head Capscrew M12 x 1.75 x 20    |
| 42   | 2   | 1105883     | Plt Cover                            |
| 43   | 4   | F0110020    | Hex Head Capscrew M10 x 1.5 x 20     |
| 44   | 1   | 6200002     | Grease Fitting                       |
| 45   | 2   | 6302659     | Flow Control Sub-Assy                |



## SUB-ASSEMBLY LINE MOUNT MANIFOLD

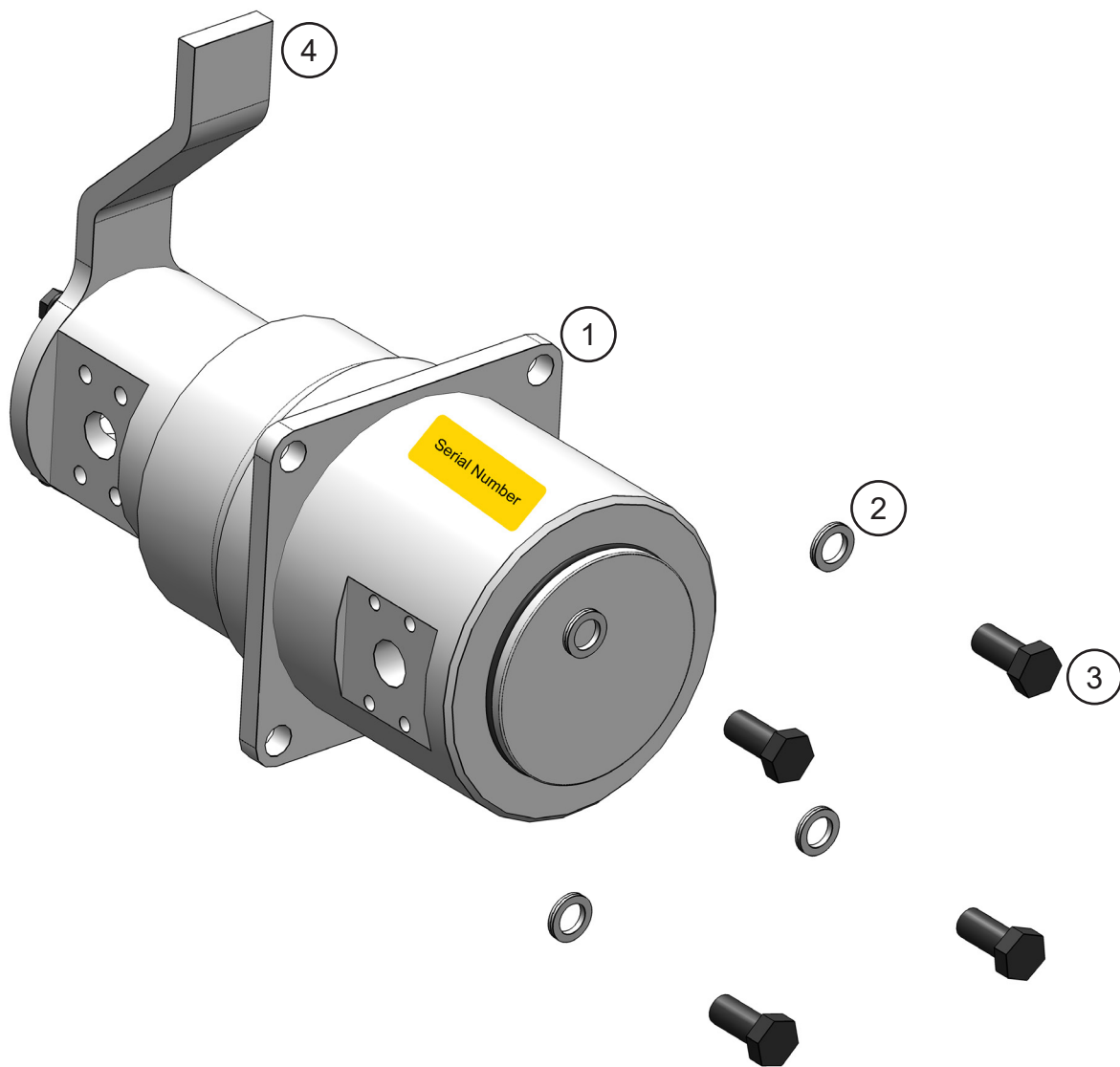


## SUB-ASSEMBLY LINE MOUNT MANIFOLD

| ITEM | QTY | PART NUMBER          |                | DESCRIPTION                                |
|------|-----|----------------------|----------------|--------------------------------------------|
|      |     | <b>GDT 190 - 590</b> | <b>GDT 890</b> |                                            |
| 1    | 1   | 6300609              | 6302658        | Valve Line Body                            |
| 2    | 1   | 6300361              | 6300361        | Valve Flow Control <b>Seal Kit 6300634</b> |
| 3    | 1   | 6300497              | 6310050        | Adaptor Bulkhead 08MB-08MO                 |
| 4    | 1   | 6310183              | 6310183        | Adaptor 08MB-08MB                          |
| 5    | 1   | 6300364              | 6300364        | Filter                                     |



## GDT 190 & 290 ASSEMBLY SWIVEL MANIFOLD



## GDT 190 & 290 ASSEMBLY SWIVEL MANIFOLD

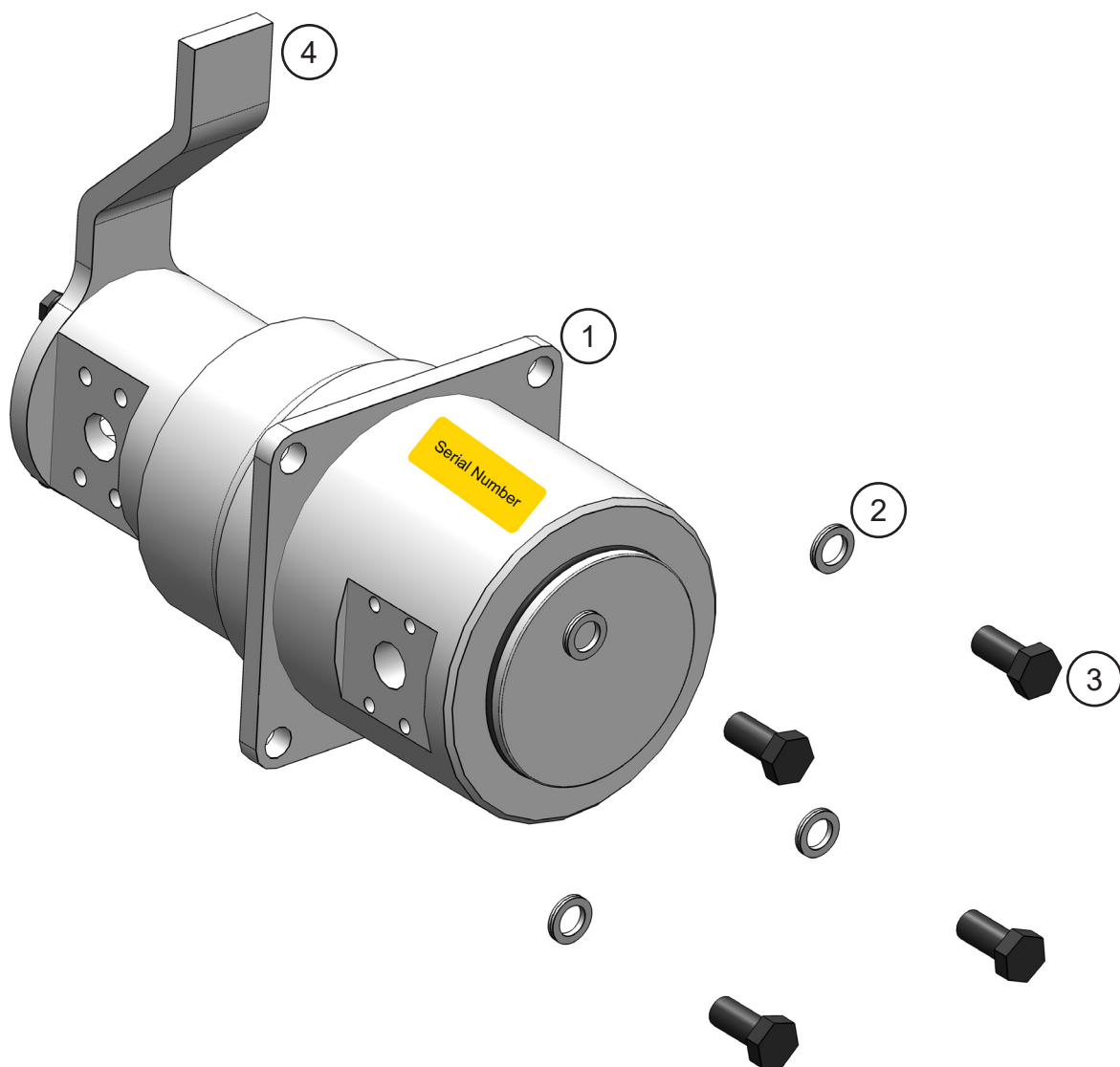
| ITEM | QTY | PART NUMBER | DESCRIPTION                      |
|------|-----|-------------|----------------------------------|
| 1    | 1   | 6350185     | Assembly Swivel Manifold         |
| 2    | 4   | F1900063    | Wedge Lock Washer $\frac{5}{8}$  |
| 3    | 4   | F0116035    | Hex Head Capscrew M16 x 2.0 x 35 |
| 4    | 1   | *           | Torque Arm Kit                   |

\* Part number is Serial Number specific. For replacement parts call the Genesis Parts Department. The swivel Serial Number, located in the highlighted area, is required for **any** parts order.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0

## GDT 390 ASSEMBLY SWIVEL MANIFOLD



## GDT 390 ASSEMBLY SWIVEL MANIFOLD

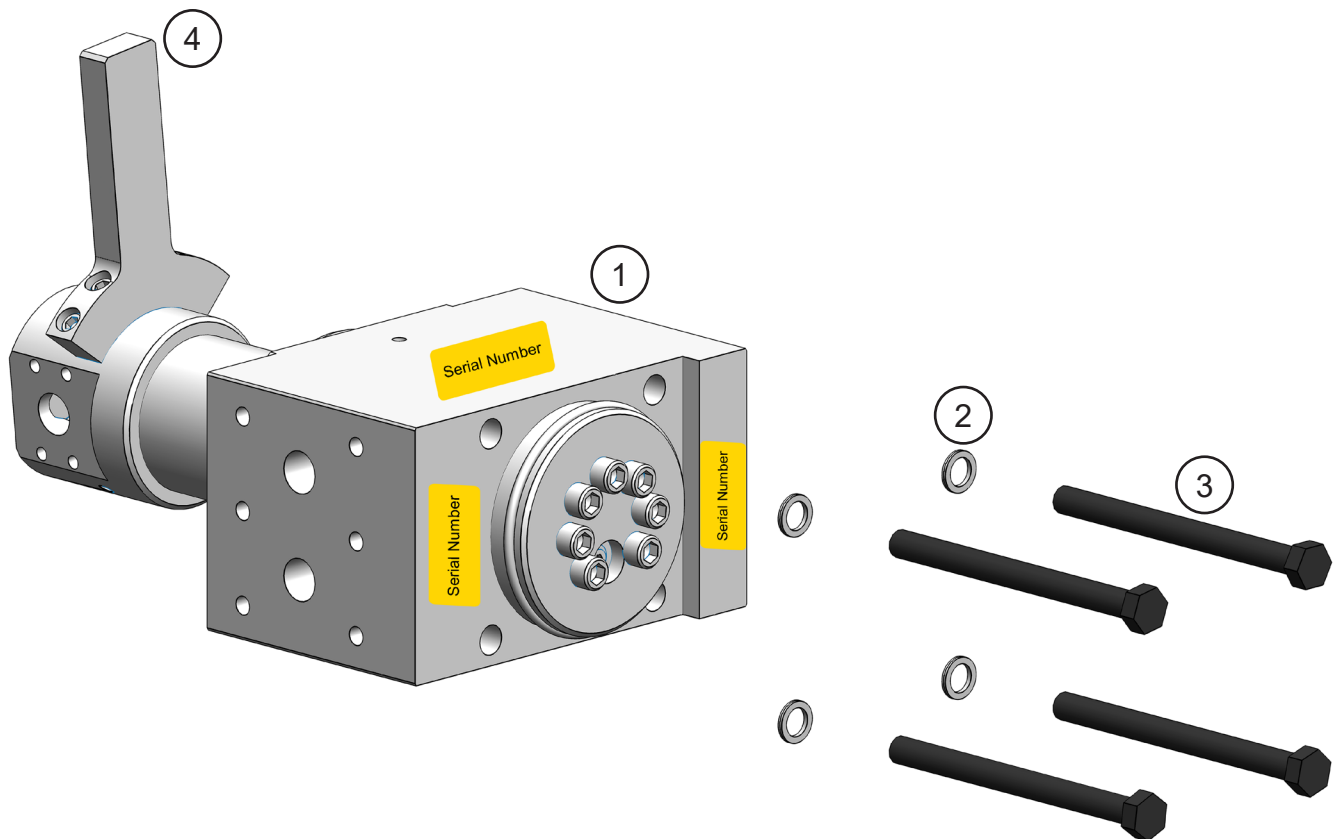
| ITEM | QTY | PART NUMBER | DESCRIPTION                      |
|------|-----|-------------|----------------------------------|
| 1    | 1   | 6350127     | Assembly Swivel Manifold         |
| 2    | 4   | F1900063    | Wedge Lock Washer $\frac{5}{8}$  |
| 3    | 4   | F0116040    | Hex Head Capscrew M16 x 2.0 x 40 |
| 4    | 1   | *           | Torque Arm Kit                   |

\* Part number is Serial Number specific. For replacement parts call the Genesis Parts Department. The swivel Serial Number, located in the highlighted area, is required for **any** parts order.

**USA**  
715-395-3488

**Europe**  
+49 83 31 9 25 98 0

## GDT 590 & 890 ASSEMBLY SWIVEL MANIFOLD



## GDT 590 & 890 ASSEMBLY SWIVEL MANIFOLD

| ITEM | QTY | PART NUMBER |            | DESCRIPTION                       |
|------|-----|-------------|------------|-----------------------------------|
|      |     | <b>590</b>  | <b>890</b> |                                   |
| 1    | 1   | 6350135     | 6350168    | Assembly Swivel Manifold          |
| 2    | 4   | F1900075    |            | Wedge Lock Washer $\frac{3}{4}$   |
| 3    | 4   | F0120260    |            | Hex Head Capscrew M20 x 2.5 x 260 |
| 4    | 1   | *           |            | Torque Arm Kit                    |

\* Part number is Serial Number specific.

For replacement parts and seal kit, call the Genesis Parts Department.

The swivel Serial Number, located in one of the three highlighted areas, is required for **any** parts order.

### USA

715-395-3488

### Europe

+49 83 31 9 25 98 0

## SPLIT FLANGE KITS USED IN THIS MANUAL

### 1" Split Flange Kit - Code 61 - M10

| QTY | PART NUMBER | DESCRIPTION                       |
|-----|-------------|-----------------------------------|
| 2   | H0261100    | Split Flange Half 1.00 Code 61    |
| 4   | F0110035    | Hex Head Capscrew M10 x 1.50 x 35 |
| 4   | F1401000    | Lock Washer M10                   |
| 1   | S0190219    | O-Ring                            |

### 1" Split Flange Kit - Code 62 - M10

| QTY | PART NUMBER | DESCRIPTION                       |
|-----|-------------|-----------------------------------|
| 2   | H0262100    | Split Flange Half 1.00 Code 62    |
| 4   | F0110040    | Hex Head Capscrew M10 x 1.50 x 40 |
| 4   | F1401000    | Lock Washer M10                   |
| 1   | S0190219    | O-Ring                            |

### 1" Split Flange Kit - Code 62 - M12

| QTY | PART NUMBER | DESCRIPTION                       |
|-----|-------------|-----------------------------------|
| 2   | H0262100    | Split Flange Half 1.00 Code 62    |
| 4   | F0112040    | Hex Head Capscrew M12 x 1.75 x 40 |
| 4   | F1401200    | Lock Washer M12                   |
| 1   | S0190219    | O-Ring                            |

### 1¼" Split Flange Kit - Code 62 - M12

| QTY | PART NUMBER | DESCRIPTION                       |
|-----|-------------|-----------------------------------|
| 2   | H0262125    | Split Flange Half 1.25 Code 62    |
| 4   | F0112050    | Hex Head Capscrew M12 x 1.75 x 50 |
| 4   | F1401200    | Lock Washer M12                   |
| 1   | S0190222    | O-Ring                            |

### 1¼" Split Flange Kit - Code 62 - M14

| QTY | PART NUMBER | DESCRIPTION                       |
|-----|-------------|-----------------------------------|
| 2   | H0262125    | Split Flange Half 1.25 Code 62    |
| 4   | F0114050    | Hex Head Capscrew M14 x 2.00 x 50 |
| 4   | F1401400    | Lock Washer M14                   |
| 1   | S0190222    | O-Ring                            |

### 1½" Split Flange Kit - Code 62 - M16

| QTY | PART NUMBER | DESCRIPTION                        |
|-----|-------------|------------------------------------|
| 2   | H0262150    | Split Flange Half 1.50 Code 62     |
| 2   | F0116170    | Hex Head Capscrew M16 x 2.00 x 170 |
| 4   | F1900063    | Wedge Lock Washer ⅝                |
| 1   | S0190225    | O-Ring                             |

## BOLT TORQUE SPECIFICATIONS

Reference the product Thread Treatment Diagrams beginning on page 44 to determine whether to use wet or dry torque values for specific bolts.

Reference Procedures on page 45 for threadlocker or anti-seize application and bolt and bolt hole cleaning.

Prior to torquing, clean all bolt holes, bolts and nuts to remove dirt, grease and oil, and identify bolt type.

Never re-torque bolts that use Loctite. If a bolt becomes loose or damaged after the initial use when Loctite was applied and the bolt was torqued, the bolt must be replaced.

Never break tightened bolts loose with a torque wrench. Doing so may break the torque wrench or take it out of calibration.

Torque wrenches should be calibrated on an annual basis.

When using a torque multiplier with a torque wrench, incorrect settings will be multiplied by the ratio of the torque wrench.

Never use an impact driver on a torque multiplier.

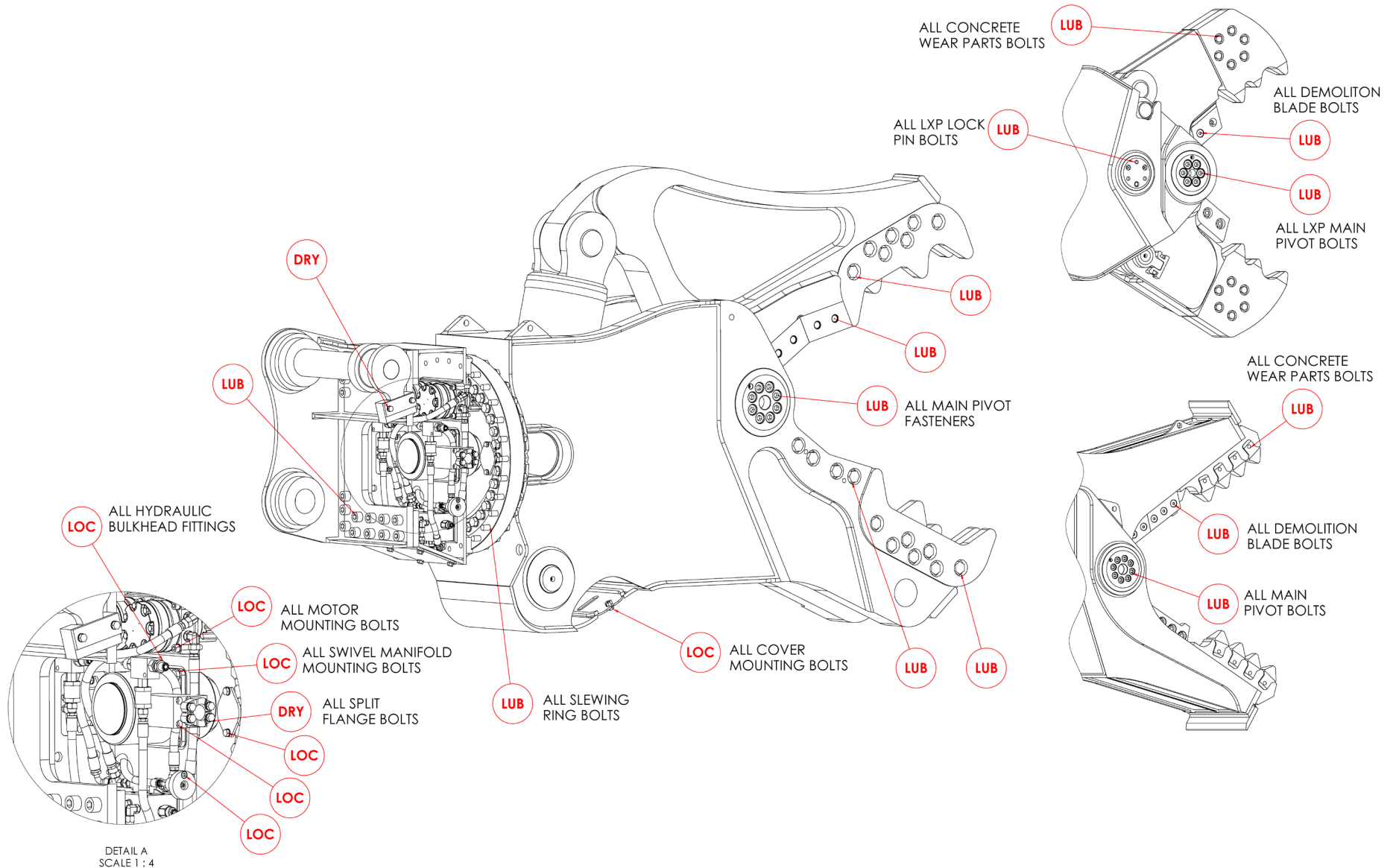


# THREAD TREATMENT DIAGRAM

## Processors

Use this diagram to determine what thread treatment, if any, is required for each fastener.

For thread treatment application procedures, see page 45. For prescribed torque values, see page 47.



## PROCEDURES

Reference the product Thread Treatment Diagrams on page 44 to determine which of the following procedures is required.

### Cleaning

To ensure proper performance of thread treatment and accurate torque values, clean and degrease **all internal and external threads** prior to application of threadlocker, anti-seize or primer and before installation of hardware.

- Ensure both internal and external threads are free of dirt or debris.
- Use brake cleaner or similar cleaning solvent on all threads to remove any grease or oil.
- Allow threads to dry.

## NOTICE

Failure to properly clean threads will cause threadlocker, primer, and/or anti-seize to not properly cure!

LOC

### Threadlocker

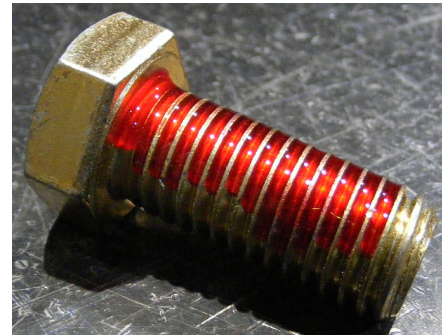
For bolted connections requiring threadlocker, use **Loctite 263** or equivalent applied using the following procedure:

- Clean and degrease all threads.
- For thru holes or nuts, apply threadlocker to bolt threads.
- For blind holes, apply stripe of threadlocker along the length of the hole (applying to the bolt can cause escaping air to remove threadlocker as the bolt is inserted).
- Torque bolt to specified **Wet Torque Value**, see page 47.

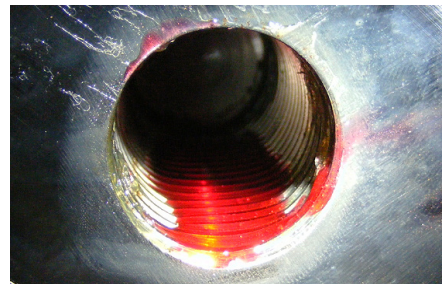
For threaded hydraulic fitting connections, use **Loctite 5452** or equivalent thread sealant in conjunction with **Loctite 7471** primer using the following procedure:

- Clean and degrease all threads.
- Apply Loctite 7471 primer to both external and internal threads and allow to dry.
- Apply threadlocker to 360 degrees of the threads on the male fitting, ensuring adequate coverage.
- Assemble fitting per directions in operator's manual.
- For O-ring boss and flat face O-ring connections, torque fittings to values specified on page 48.

Threadlocker



Blind Hole



Hydraulic Fitting



## PROCEDURES

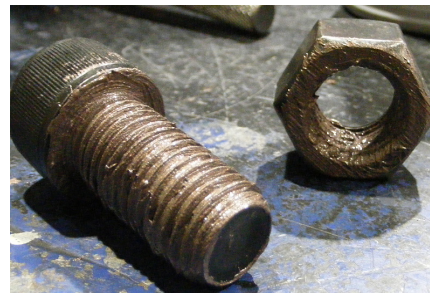
LUB

### Anti-Seize

For bolted connections requiring anti-seize lubrication, use **Loctite LB8008** or equivalent using the following procedure:

- Clean and degrease all threads.
- Apply thin coat of anti-seize to internal and external threads and under bolt head and/or nut, ensuring complete coverage.
- Torque bolt to specified **Wet Torque Value**, see page 47.

Anti-Seize



DRY

### No Thread Treatment

- Clean and degrease all threads.
- Torque bolt to specified **Dry Torque Value**, see page 47.

# BOLT TORQUE SPECIFICATIONS

## Dry Torque Values

|                |              | Hex/Socket Head                                                                   |                                                                                   | Flat Head                                                                         |       |
|----------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|
|                |              |  |  |  |       |
| Fastener Grade | Size x Pitch | Nm                                                                                | Ft-lb                                                                             | Nm                                                                                | Ft-lb |
| CL 10.9        | M8 x 1.25    | 35                                                                                | 26                                                                                | 27                                                                                | 20    |
|                | M10 x 1.50   | 71                                                                                | 53                                                                                | 58                                                                                | 42    |
|                | M12 x 1.75   | 124                                                                               | 92                                                                                | 101                                                                               | 73    |
|                | M14 x 1.50   | 200                                                                               | 148                                                                               | 163                                                                               | 118   |
|                | M14 x 2.00   | 200                                                                               | 148                                                                               | 163                                                                               | 118   |
|                | M16 x 2.00   | 311                                                                               | 230                                                                               | 254                                                                               | 184   |
|                | M20 x 1.50   | 610                                                                               | 450                                                                               | 498                                                                               | 360   |
|                | M20 x 2.50   | 608                                                                               | 449                                                                               | 497                                                                               | 359   |
|                | M24 x 3.00   | 1054                                                                              | 778                                                                               | 861                                                                               | 622   |
|                | M27 x 3.00   | 1543                                                                              | 1138                                                                              | 1260                                                                              | 910   |
|                | M30 x 3.50   | 2095                                                                              | 1545                                                                              | 1712                                                                              | 1236  |
|                | M36 x 4.00   | 3659                                                                              | 2699                                                                              | 2991                                                                              | 2159  |
| 8              | 1/4-20       | 14                                                                                | 11                                                                                | 11                                                                                | 8     |
|                | 5/16-18      | 32                                                                                | 24                                                                                | 26                                                                                | 19    |
|                | 3/8-16       | 59                                                                                | 44                                                                                | 48                                                                                | 35    |
|                | 7/16-14      | 94                                                                                | 70                                                                                | 77                                                                                | 56    |
|                | 1/2-13       | 143                                                                               | 106                                                                               | 116                                                                               | 84    |
|                | 1/2-20       | 162                                                                               | 120                                                                               | 133                                                                               | 96    |
|                | 5/8-11       | 287                                                                               | 212                                                                               | 234                                                                               | 169   |
|                | 3/4-10       | 509                                                                               | 376                                                                               | 415                                                                               | 300   |
|                | 7/8-9        | 821                                                                               | 606                                                                               | 670                                                                               | 484   |
|                | 1.00-8       | 1232                                                                              | 909                                                                               | 1007                                                                              | 727   |
|                | 1.00-14      | 1383                                                                              | 1020                                                                              | 1130                                                                              | 816   |
|                | 1.25-7       | 2463                                                                              | 1817                                                                              | 2013                                                                              | 1453  |
| 8/L9           | 1.50-6       | 4287                                                                              | 3162                                                                              | 3504                                                                              | 2529  |

## Wet Torque Values

|                |              | Hex/Socket Head                                                                     |                                                                                     | Flat Head                                                                           |       |
|----------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|                |              |  |  |  |       |
| Fastener Grade | Size x Pitch | Nm                                                                                  | Ft-lb                                                                               | Nm                                                                                  | Ft-lb |
| CL 10.9        | M8 x 1.25    | 29                                                                                  | 22                                                                                  | 23                                                                                  | 17    |
|                | M10 x 1.50   | 61                                                                                  | 45                                                                                  | 49                                                                                  | 36    |
|                | M12 x 1.75   | 105                                                                                 | 78                                                                                  | 85                                                                                  | 62    |
|                | M14 x 1.50   | 150                                                                                 | 111                                                                                 | 121                                                                                 | 88    |
|                | M14 x 2.00   | 170                                                                                 | 126                                                                                 | 138                                                                                 | 100   |
|                | M16 x 2.00   | 265                                                                                 | 196                                                                                 | 216                                                                                 | 156   |
|                | M20 x 1.50   | 456                                                                                 | 337                                                                                 | 372                                                                                 | 269   |
|                | M20 x 2.50   | 517                                                                                 | 382                                                                                 | 422                                                                                 | 305   |
|                | M24 x 3.00   | 894                                                                                 | 660                                                                                 | 731                                                                                 | 528   |
|                | M27 x 3.00   | 1312                                                                                | 968                                                                                 | 1072                                                                                | 774   |
|                | M30 x 3.50   | 1779                                                                                | 1312                                                                                | 1453                                                                                | 1049  |
|                | M36 x 4.00   | 3110                                                                                | 2294                                                                                | 2542                                                                                | 1835  |
| 8              | 1/4-20       | 13                                                                                  | 10                                                                                  | 11                                                                                  | 8     |
|                | 5/16-18      | 27                                                                                  | 20                                                                                  | 22                                                                                  | 16    |
|                | 3/8-16       | 50                                                                                  | 37                                                                                  | 40                                                                                  | 29    |
|                | 7/16-14      | 80                                                                                  | 59                                                                                  | 65                                                                                  | 47    |
|                | 1/2-13       | 122                                                                                 | 90                                                                                  | 99                                                                                  | 72    |
|                | 1/2-20       | 138                                                                                 | 102                                                                                 | 112                                                                                 | 81    |
|                | 5/8-11       | 244                                                                                 | 180                                                                                 | 199                                                                                 | 144   |
|                | 3/4-10       | 433                                                                                 | 320                                                                                 | 354                                                                                 | 256   |
|                | 7/8-9        | 698                                                                                 | 515                                                                                 | 570                                                                                 | 412   |
|                | 1.00-8       | 1046                                                                                | 772                                                                                 | 854                                                                                 | 617   |
|                | 1.00-14      | 1175                                                                                | 867                                                                                 | 960                                                                                 | 693   |
|                | 1.25-7       | 2095                                                                                | 1545                                                                                | 1712                                                                                | 1236  |
| 8/L9           | 1.50-6       | 3644                                                                                | 2688                                                                                | 2979                                                                                | 2150  |

## O-RING BOSS & FLAT FACE O-RING TORQUE SPECIFICATIONS

| O-Ring Boss Torque Values |     |       |
|---------------------------|-----|-------|
| Size Dash                 | Nm  | Ft-lb |
| -4                        | 22  | 16    |
| -5                        | 27  | 20    |
| -6                        | 36  | 26    |
| -8                        | 83  | 60    |
| -10                       | 110 | 80    |
| -12                       | 187 | 135   |
| -14                       | 249 | 180   |
| -16                       | 304 | 220   |
| -20                       | 387 | 280   |
| -24                       | 498 | 360   |

| Flat Face O-Ring Torque Values |     |       |
|--------------------------------|-----|-------|
| Size Dash                      | Nm  | Ft-lb |
| -4                             | 18  | 13    |
| -6                             | 30  | 22    |
| -8                             | 60  | 44    |
| -10                            | 85  | 62    |
| -12                            | 121 | 88    |
| -14                            | 121 | 88    |
| -16                            | 160 | 116   |
| -20                            | 213 | 154   |
| -24                            | 274 | 198   |

# BOLT DRIVE SPECIFICATIONS

| Thread<br>Size x Pitch | Hex Head                                                                          | Socket Head                                                                       | Flat Head                                                                         |
|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                        |  |  |  |
|                        | Wrench/Drive Size                                                                 |                                                                                   |                                                                                   |
| M8 x 1.25              | 13mm                                                                              | 6mm                                                                               | 5mm                                                                               |
| M10 x 1.50             | 17mm                                                                              | 8mm                                                                               | 6mm                                                                               |
| M12 x 1.75             | 19mm                                                                              | 10mm                                                                              | 8mm                                                                               |
| M14 x 1.50             | 22mm                                                                              | 12mm                                                                              | 10mm                                                                              |
| M14 x 2.00             | 22mm                                                                              | 12mm                                                                              | 10mm                                                                              |
| M16 x 2.00             | 24mm                                                                              | 14mm                                                                              | 10mm                                                                              |
| M20 x 1.50             | 30mm                                                                              | 17mm                                                                              | 12mm                                                                              |
| M20 x 2.50             | 30mm                                                                              | 17mm                                                                              | 12mm                                                                              |
| M24 x 3.00             | 36mm                                                                              | 19mm                                                                              | 14mm                                                                              |
| M27 x 3.00             | 41mm                                                                              | 19mm                                                                              | -                                                                                 |
| M30 x 3.50             | 46mm                                                                              | 22mm                                                                              | -                                                                                 |
| M36 x 4.00             | 55mm                                                                              | 27mm                                                                              | -                                                                                 |
| 1/4-20                 | 7/16"                                                                             | 3/16"                                                                             | 5/32"                                                                             |
| 5/16-18                | 1/2"                                                                              | 1/4"                                                                              | 3/16"                                                                             |
| 3/8-16                 | 9/16"                                                                             | 5/16"                                                                             | 7/32"                                                                             |
| 7/16-14                | 5/8"                                                                              | 3/8"                                                                              | 1/4"                                                                              |
| 1/2-13                 | 3/4"                                                                              | 3/8"                                                                              | 5/16"                                                                             |
| 1/2-20                 | 3/4"                                                                              | 3/8"                                                                              | 5/16"                                                                             |
| 5/8-11                 | 15/16"                                                                            | 1/2"                                                                              | 3/8"                                                                              |
| 3/4-10                 | 1-1/8"                                                                            | 5/8"                                                                              | 1/2"                                                                              |
| 7/8-9                  | 1-5/16"                                                                           | 3/4"                                                                              | 9/16"                                                                             |
| 1.00-8                 | 1-1/2"                                                                            | 3/4"                                                                              | 5/8"                                                                              |
| 1.00-14                | 1-1/2"                                                                            | 3/4"                                                                              | 5/8"                                                                              |
| 1.25-7                 | 1-7/8"                                                                            | 7/8"                                                                              | 7/8"                                                                              |
| 1.50-6                 | 2-1/4"                                                                            | 1"                                                                                | 1"                                                                                |

# WARRANTY

## **Claim Procedure**

Notify the Genesis Service Department of the potential warranty claim prior to making the repair. Digital pictures are very helpful for diagnosing problems and recommending repairs.

Contact the Genesis Service Department before making alterations, changes or repairs to any component that is going to be considered for warranty. Not doing so will void all Genesis warranty consideration.

The Genesis Service Department will issue an authorization number to track the repair costs, outgoing parts, and/or defective parts returning to the factory.

Replacement parts must be ordered using a purchase order number. Shipping is standard ground. Overnight shipping is available by request, and Genesis will not cover the shipping charge.

When the repair is complete, submit an invoice to the Genesis Service Department within 30 days. Include itemized internal labor reporting, parts lists and invoices for outside contractors. Reference the authorization number on all invoices.

When returning parts for warranty consideration, include a copy of any related Genesis paperwork along with any other necessary documentation to ensure proper processing and credit. The Genesis Service Department will provide the necessary forms.

Your account will be credited when the warranty claim is accepted.

## **Blade Warranty**

Standard warranty on blades will only be considered on the first edge, and wear on the edge must be 1/8" radius or less. Genesis does not warranty cutting blades that are cracked or broken from top to bottom (perpendicular to the long edge of the blade). Genesis also does not cover fasteners, the labor to replace wear components or collateral damage, such as blade seats, from broken blades, the piercing blade tang or adjustment plates.

**Please direct any questions to the Genesis Service Department: 715-395-5252**



# PARTS ORDER POLICY AND PROCEDURE

## **Parts Orders Should Include**

- Purchase order number
- Model and serial number of attachment
- Part number and quantity needed
- Shipping and billing address
- Method of shipment or required delivery date

## **Placing Orders**

Orders may be placed by phone or e-mail. To e-mail an order, use the form on the following page or your purchase order form. Contact information is located at the front of this manual.

## **Part Numbers**

Part numbers are listed in a separate Parts Manual or, if included, the Parts section of this manual. Contact the Genesis Parts Department with questions regarding part numbers, availability and pricing.

## **Shipping**

All orders will be shipped best way surface unless an alternate shipping method is requested. Shipping charges are not included in the purchase price of parts.

## **Invoices**

All invoices are due upon receipt. Any accounts with invoices open beyond 60 days are subject to review and may be placed on C.O.D. status without further notice.

## **Returns**

Many unused Genesis parts may be returned with proper documentation. Return shipping is the responsibility of the purchaser. Credit will be issued upon return, less a 25% restocking fee. Documentation is required for credit of returned parts. Contact the Genesis Service Department at 715-395-5252 for an RGA (Return Goods Authorization) number and form. An RGA must accompany every return. Items shipped without an RGA may be returned to sender.

## **Warranty Returns**

All parts returned to Genesis for warranty consideration must be returned with a completed RGA (Return Goods Authorization) provided by the Genesis Service Department. The form needs to be completed in its entirety, including any additional information requested by the Service Department. Return shipping is the responsibility of the sender and will be credited upon claim approval. A determination to accept or deny the claim will be made based upon the information available to Genesis. Warranty on purchased parts other than wear components is 6 months. There is no warranty period on wear parts or components.



## PARTS ORDER FORM

|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| Customer: _____                              | Date: _____                                 |
| Phone: _____                                 | Contact: _____                              |
| Shipping Address:<br>_____<br>_____<br>_____ | E-mail: _____                               |
|                                              | Billing Address:<br>_____<br>_____<br>_____ |
| Purchase Order: _____                        | Shipping Method: _____                      |
| Model: _____                                 | Serial Number: _____                        |

| Quantity | Part Number | Description | Price |
|----------|-------------|-------------|-------|
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |
|          |             |             |       |

E-mail to the Genesis Parts Department: [genesisparts@genesisattachments.com](mailto:genesisparts@genesisattachments.com)  
For assistance, call 715-395-3488

# INDEX

|                                                             |            |                                  |        |
|-------------------------------------------------------------|------------|----------------------------------|--------|
| 1 1/2" Split Flange Kit - Code 62 - M16                     | 42         | 3502122 Mach Pin Teeth Lower     | 9      |
| 1 1/4" Split Flange Kit - Code 62 - M12                     | 42         | 3502149 Mach Blade               | 9      |
| 1 1/4" Split Flange Kit - Code 62 - M14                     | 42         | 3502152 Mach Tooth Lower Inside  | 9      |
| 1" Split Flange Kit - Code 61 - M10                         | 42         | 3502154 Mach Tooth Lower Outside | 9      |
| 1" Split Flange Kit - Code 62 - M10                         | 42         | 3502156 Mach Tooth Upper LH      | 9      |
| 1" Split Flange Kit - Code 62 - M12                         | 42         | 3502158 Mach Tooth Upper RH      | 9      |
| 1100319 Plt Cover                                           | 27         | 3502161 Wtmg Sub-head            | 27     |
| 1102448 Shim Set                                            | 7          | 3502178 Wtmg Sub-head            | 27     |
| 1102487 Mach Pin Keeper                                     | 13         | 3502184 Hose                     | 27     |
| 1103607 Mach Pin Keeper                                     | 13         | 3502185 Hose                     | 27     |
| 1105883 Plt Cover                                           | 29, 31, 33 | 3502186 Hose                     | 27     |
| 1106664 Mach Upper Cyl Bearing                              | 13         | 3502187 Hose                     | 27     |
| 1106675 Mach Pin Keeper                                     | 13         | 3502188 Hose                     | 27     |
| 1107091 Mach Port Block                                     | 31, 33     | 3502190 Plt Cover                | 27     |
| 1108011 Socket Head Capscrew M12 X 1.75 X 70 (Custom Shaft) | 27         | 3502191 Plt Cover                | 27     |
| 1108183 Socket Head Capscrew M12 X 1.75 X 60 (Custom Shaft) | 29, 31     | 3502285 Mach Pin Rear Cyl Pin    | 13     |
| 3100133 Mach Upper Cyl Bearing                              | 13         | 3502286 Plt Cover                | 25     |
| 3101235 Motor Pinion                                        | 29, 31     | 3502287 Mach Pin Teeth Upper     | 9      |
| 3101265 Pinion                                              | 33         | 3502288 Mach Pin Teeth Lower     | 9      |
| 3500309 Mach Pin Keeper                                     | 13         | 3502289 Hose                     | 17     |
| 3500350 Mach Pin Keeper                                     | 13         | 3502290 Hose                     | 17     |
| 3500360 Shim Set                                            | 7          | 3502291 Mach Tooth Upper RH      | 9      |
| 3500637 Wldt Upper Cyl Pin                                  | 13         | 3502293 Mach Tooth Upper LH      | 9      |
| 3500831 Mach Pin Keeper                                     | 13         | 3502295 Mach Tooth Lower Inside  | 9      |
| 3501099 Mach End Cap                                        | 7          | 3502297 Mach Tooth Lower Outside | 9      |
| 3501100 Mach Bearing                                        | 7          | 3502299 Mach Blade               | 9      |
| 3501246 Mach Pin Keeper                                     | 13         | 3502313 Hose                     | 29, 31 |
| 3501760 Mach Bearing                                        | 7          | 3502315 Mach Port Block          | 29     |
| 3501761 Shim Set                                            | 7          | 3502320 Plt Cover                | 29     |
| 3501812 Mach End Cap                                        | 7          | 3502323 Mach Port Block          | 27     |
| 3501835 Mach Spacer                                         | 29, 31     | 3502324 Hose                     | 27     |
| 3501986 Mach Upper Cyl Bearing                              | 13         | 3502533 Wtmg Sub-Head            | 31     |
| 3501987 Mach Pin Rear Cyl Pin                               | 13         | 3502546 Plt Top Cover            | 31     |
| 3501988 Wldt Upper Cyl Pin                                  | 13         | 3502579 Hose                     | 17     |
| 3501995 Hose                                                | 17         | 3502580 Hose                     | 17     |
| 3501997 Swivel Gasket                                       | 17         | 3502581 Hose                     | 17     |
| 3502013 Mach Blade                                          | 9          | 3502582 Hose                     | 17     |
| 3502027 Plt Cover                                           | 27         | 3502583 Hose                     | 17     |
| 3502034 Hose                                                | 27         | 3502584 Hose                     | 17     |
| 3502086 Mach Tooth Upper RH                                 | 9          | 3502682 Wtmg Sub-Head            | 29     |
| 3502088 Mach Tooth Upper LH                                 | 9          | 3502686 Hose                     | 29     |
| 3502090 Mach Tooth Lower Inside                             | 9          | 3502705 Mach Blade               | 9      |
| 3502094 Mach Tooth Lower Outside                            | 9          | 3502716 Mach Thrust Washer       | 7      |
| 3502101 Mach Pin Teeth Upper                                | 9          | 3502717 Mach End Cap             | 7      |
| 3502102 Mach Pin Teeth Lower                                | 9          | 3502719 Mach Tie Rod Nut         | 7      |
| 3502103 Hose                                                | 17         | 3502721 Mach Pin Teeth Upper     | 9      |
| 3502114 Mach Upper Cyl Bearing                              | 13         | 3502722 Mach Pin Teeth Lower     | 9      |
| 3502115 Wldt Upper Cyl Pin                                  | 13         | 3502723 Mach Bearing             | 7      |
| 3502117 Mach Pin Rear Cyl Pin                               | 13         | 3502724 Mach Main Shaft          | 7      |
| 3502118 Plt Cover                                           | 25         | 3502725 Mach Pin Keeper          | 13     |
| 3502119 Hose                                                | 17         | 3502727 Mach Tie Rod             | 7      |
| 3502120 Hose                                                | 17         | 3502730 Mach Upper Cyl Bearing   | 13     |
| 3502121 Mach Pin Teeth Upper                                | 9          | 3502731 Mach Pin Rear Cyl Pin    | 13     |
|                                                             |            | 3502732 Wldt Upper Cyl Pin       | 13     |
|                                                             |            | 3502736 Mach Tooth Upper RH      | 9      |

# INDEX

|                                          |                        |                                              |                |
|------------------------------------------|------------------------|----------------------------------------------|----------------|
| 3502738 Mach Tooth Lower Outside         | 9                      | 6300609 Valve Line Body                      | 35             |
| 3502740 Mach Tooth Upper LH              | 9                      | 6300621 Valve Shuttle CSAB-XXV               | 19, 21, 23     |
| 3502741 Mach Tooth Lower Inside          | 9                      | 6300623 Valve Logic DKJS-XHV                 | 21, 23         |
| 3502804 Plt Cover                        | 25                     | 6300625 Valve PSI Reducer PRDB-LWV           | 19, 21, 23     |
| 3502805 Hose                             | 31                     | 6300638 O-Ring 1p-3705 High PSI Seal 2.0 OD  | 19, 21, 23     |
| 3502806 Hose                             | 17                     | 6300723 O-Ring 1p-3705 High PSI Seal 2.25 OD | 19, 21, 23     |
| 3503248 Thrust Washer                    | 7                      | 6300731 Adapter 02MP-04MO                    | 27, 29, 31, 33 |
| 3503374 Thrust Washer                    | 7                      | 6300768 Adapter 04MB-04MO-90                 | 27             |
| 3503377 Thrust Washer                    | 7                      | 6300903 Mach Orifice                         | 19, 21, 23     |
| 3503381 Thrust Washer                    | 7                      | 6301076 Adapter Bulkhead 06MO-06MO           | 27             |
| 3503383 Plt Cover                        | 25                     | 6301202 Flow Control Sub-Assembly            | 27, 29, 31     |
| 3503394 Hose                             | 17                     | 6301254 Valve - GenFlow                      | 17             |
| 3503404 Mach Sub-Head                    | 33                     | 6301255 Valve - GenFlow                      | 17             |
| 3503420 Plt Top Cover                    | 33                     | 6302658 Valve Line Body                      | 35             |
| 3503421 Plt Bottom Cover                 | 33                     | 6302659 Flow Control Sub-Assy                | 33             |
| 3503422 Hose                             | 33                     | 6302660 Bracket Hose Stem Lock Lock 90       | 33             |
| 3503423 Hose                             | 33                     | 6302661 Manifold Case Drain                  | 33             |
| 3503424 Hose                             | 33                     | 6310004 Adapter                              | 17             |
| 3503425 Hose                             | 33                     | 6310050 Adaptor Bulkhead 08MB-08MO           | 35             |
| 3503476 Mach Bearing                     | 7                      | 6310082 Adapter 12MB-08MO-90                 | 29, 31, 33     |
| 3503477 Mach Main Shaft                  | 7                      | 6310183 Adaptor 08MB-08MB                    | 35             |
| 3503479 Mach Tie Rod                     | 7                      | 6310191 Mach Port Spacer                     | 17             |
| 3503485 Wldt Upper Cyl Pin               | 13                     | 6310199 Mach Port Spacer                     | 17             |
| 3503487 Plt Cover                        | 25                     | 6310256 Mach Port Spacer                     | 17             |
| 3503488 Plt Cover                        | 25                     | 6310305 Adapter 04MBSPP-06MO-90              | 33             |
| 3503489 Mach Pin Rear Cyl Pin            | 13                     | 6310361 Adapter                              | 17             |
| 3503490 Mach Port Spacer                 | 17                     | 6350102 Hydraulic Cylinder                   | 17             |
| 3503491 Hose                             | 17                     | 6350114 Hydraulic Cylinder                   | 17             |
| 3503492 Hose                             | 17                     | 6350126 Hydraulic Cylinder                   | 17             |
| 3503496 Shim Set Blade                   | 11                     | 6350127 Assembly Swivel Manifold             | 29, 39         |
| 3503509 Mach Tooth RH C'Bore 2pt         | 11                     | 6350135 Assembly Swivel Manifold             | 31, 41         |
| 3503510 Mach Tooth LH C'Bore 2pt         | 11                     | 6350153 Hydraulic Cylinder                   | 17             |
| 3503513 Mach Tooth LH C'Bore 1pt         | 11                     | 6350168 Assembly Swivel Manifold             | 33, 41         |
| 3503645 Mach Tooth Tapped 1pt            | 11                     | 6350170 Hydraulic Cylinder                   | 17             |
| 3503646 Mach Tooth Tapped 2pt            | 11                     | 6350185 Assembly Swivel Manifold             | 27, 37         |
| 3503647 Mach Blade                       | 11                     | 6360102 Valve Rotate C'over/C'bal            | 27             |
| 3503648 Mach Tooth RH Tapped 1.5pt       | 11                     | 6360120 Valve - GenFlow                      | 17             |
| 5512411 Mach Grease Bulkhead Adapter     | 27, 29, 31, 33         | 6360143 Valve Rotate Cross-over / C'bal      | 29, 31         |
| 5512419 Mach Slewing Ring Grease Adapter | 27, 29, 31, 33         | 6360147 Valve Rotate Crossover / C'bal       | 33             |
| 6100092 Slewing Ring                     | 27                     | 6380038 Valve Logic DKHS-XHV                 | 19             |
| 6100397 Slewing Ring                     | 27                     | 6380083 Motor                                | 29, 31         |
| 6200002 Grease Fitting                   | 7, 13, 27, 29, 31, 33  | 6380088 Valve Check COJA-XGV                 | 21, 23         |
| 6300018 Adapter 06MB-06MO                | 33                     | 6380102 Motor Sub-Assembly                   | 27             |
| 6300075 Plug Socket Head 02MB            | 21, 23                 | 6380209 Valve Check COHA-XCV                 | 19             |
| 6300077 Plug Socket Head 10MB            | 27                     | 6380210 Motor                                | 33             |
| 6300134 Mach Dowel                       | 7                      | Access Covers                                | 24, 25         |
| 6300153 Plug Socket Head 06MB            | 19, 21, 23, 27, 31, 33 | Assembly Blade Kit - GDT 190 - 590           | 5, 8, 9        |
| 6300305 Adapter 10MB-10MO-90             | 27                     | Assembly Blade Kit - GDT 890                 | 10, 11         |
| 6300361 Valve Flow Control               | 35                     | Assembly Cylinder                            | 16, 17         |
| 6300364 Filter                           | 35                     | Assembly Cylinder Pins                       | 5, 12, 13      |
| 6300429 Slewing Ring                     | 29, 31                 | Assembly Lugs                                | 5, 14, 15      |
| 6300430 Slewing Ring                     | 33                     | Assembly Pivot Group                         | 5              |
| 6300497 Adaptor Bulkhead 08MB-08MO       | 35                     |                                              |                |

# INDEX

|                                                            |                    |                                                |                        |
|------------------------------------------------------------|--------------------|------------------------------------------------|------------------------|
| Assembly Pivot Group - Right Side                          | 6, 7               | F0610170 Socket Head Capscrew M10 x 1.5 x 170  | 29                     |
| Assembly Sub-Head                                          | 5                  | F0612025 Socket Head Capscrew M12 x 1.75 x 25  | 25                     |
| Bar Strap                                                  | 15                 | F0612030 Socket Head Capscrew M12 x 1.75 x 30  | 7                      |
| Bolt Drive Specifications                                  | 49                 | F0612050 Socket Head Capscrew M12 x 1.75 x 50  | 17                     |
| Bolt Torque Specifications                                 | 43, 47             | F0612070 Socket Head Capscrew M12 x 1.75 x 70  | 13                     |
| Bracket Fasteners                                          | 15                 | F0616150 Socket Head Capscrew                  | 13                     |
| Contact Information                                        | 2, 57              | F0616170 Socket Head Capscrew M16 x 2.0 x 170  | 31, 33                 |
| Cylinder Seal Kit                                          | 17                 | F0620100 Socket Head Capscrew M20 x 2.5 x 100  | 13, 17                 |
| F0110020 Hex Head Capscrew M10 x 1.5 x 20                  | 27, 29, 31, 33     | F0620130 Socket Head Capscrew M20 x 2.5 x 130  | 13                     |
| F0110030 Hex Head Capscrew M10 x 1.5 x 30                  | 33                 | F0620160 Socket Head Capscrew M20 x 2.5 x 160  | 13                     |
| F0110035 Hex Head Capscrew M10 x 1.50 x 35                 | 42                 | F0620180 Socket Head Capscrew M20 x 2.5 x 180  | 13                     |
| F0110040 Hex Head Capscrew M10 x 1.50 x 40                 | 42                 | F0620200 Socket Head Capscrew M20 x 2.5 x 200  | 13                     |
| F0110100 Hex Head Capscrew M10 x 1.5 x 100                 | 17, 33             | F0620230 Socket Head Capscrew M20 x 2.5 x 230  | 13                     |
| F0110110 Hex Head Capscrew M10 x 1.5 x 110                 | 17                 | F0624060 Socket Head Capscrew M24 x 3 x 60     | 7                      |
| F0112020 Hex Head Capscrew M12 x 1.75 x 20                 | 33                 | F0627080 Socket Head Capscrew M27 x 3 x 80     | 7                      |
| F0112025 Hex Head Capscrew M12 x 1.75 x 25                 | 25, 27, 29, 31     | F0731300 Socket Head Capscrew 5/16 - 18 x 3    | 29, 31                 |
| F0112040 Hex Head Capscrew M12 x 1.75 x 40                 | 42                 | F1012175 Nylock Hex Nut M12                    | 13                     |
| F0112050 Hex Head Capscrew M12 x 1.75 x 50                 | 27, 29, 31, 33, 42 | F1016200 Nylock Hex Nut M16 x 2                | 13                     |
| F0112130 Hex Head Capscrew M12 x 1.75 x 130                | 17                 | F1020250 Nylock Hex Nut M20 x 2.5              | 13                     |
| F0114050 Hex Head Capscrew M14 x 2.00 x 50                 | 42                 | F1201021 Flat Washer M10                       | 27, 29, 31, 33         |
| F0116035 Hex Head Capscrew M16 x 2.0 x 35                  | 37                 | F1201224 Flat Washer M12                       | 7, 25, 27, 29          |
| F0116040 Hex Head Capscrew M16 x 2.0 x 40                  | 27, 29, 39         | F1201630 Flat Washer M16                       | 27                     |
| F0116045 Hex Head Capscrew M16 x 2.0 x 45                  | 33                 | F1202037 Flat Washer M20                       | 27                     |
| F0116170 Hex Head Capscrew M16 x 2.0 x 170                 | 17, 42             | F1202444 Washer                                | 9                      |
| F0120090 Hex Head Capscrew M20 x 2.5 x 90                  | 27                 | F1202750 Flat Washer                           | 9                      |
| F0120100 Hex Head Capscrew M20 x 2.5 x 100                 | 27                 | F1401000 Lock Washer M10                       | 42                     |
| F0120260 Hex Head Capscrew M20 x 2.5 x 260                 | 31, 33, 41         | F1401200 Lock Washer M12                       | 25, 27, 29, 42         |
| F0124100 Hex Head Capscrew                                 | 9                  | F1401400 Lock Washer M14                       | 42                     |
| F0124130 Hex Head Capscrew                                 | 9                  | F1900040 Washer 10mm                           | 33                     |
| F0124140 Hex Head Capscrew M24 x 3 x 140 Lower Blade Bolts | 9                  | F1900040 Wedge Lock Washer 10MM                | 17                     |
| F0124200 Hex Head Capscrew M24 x 3 x 200 Upper Blade Bolts | 9                  | F1900050 Wedge Lock Washer 12MM                | 17                     |
| F0127100 Hex Head Capscrew                                 | 9                  | F1900050 Wedge Lock Washer ½                   | 27, 29, 31, 33         |
| F0127120 Hex Head Capscrew                                 | 9                  | F1900063 Wedge Lock Washer ⅝                   | 17, 29, 33, 37, 39, 42 |
| F0127130 Hex Head Capscrew M27 x 3 x 130                   | 9, 29, 31          | F1900075 Wedge Lock Washer ¾                   | 31, 33, 41             |
| F0127160 Hex Head Capscrew                                 | 9                  | F2512012 Socket Head Set Screw M12 x 1.75 x 12 | 7                      |
| F0130130 Hex Head Capscrew M30 x 3.5 x 130                 | 33                 | F2802700 Hytorc Washer M27                     | 29, 31                 |
| F0130150 Hex Head Capscrew M30 x 3.5 x 150                 | 9, 33              | F2803000 Washer M30                            | 33                     |
| F0130190 Hex Head Capscrew M30 x 3.5 x 190                 | 9                  | F2803300 Washer                                | 11                     |
| F0213575 Hex Head Capscrew 1¼ x 7 x 5.75                   | 11                 | GDT 190 & 290 Assembly Sub-Head                | 26, 27                 |
| F0213600 Hex Head Capscrew 1¼ x 7 x 6.00                   | 11                 | GDT 190 & 290 Assembly Swivel Manifold         | 36, 37, 39             |
| F0213750 Hex Head Capscrew 1¼ x 7 x 7.50                   | 11                 | GDT 190 & 290 Regen Block Sub-Assembly         | 6301255 18, 19         |
| F0213825 Hex Head Capscrew 1¼ x 7 x 8.25                   | 11                 | GDT 390 Assembly Sub-Head                      | 28, 29                 |
| F0412030 Flat Head Cap Screw M12 x 1.75 x 30               | 7                  | GDT 390 Assembly Swivel Manifold               | 38, 39                 |
| F0608060 Socket Head Capscrew M8 x 1.25 x 60               | 27                 | GDT 390 Regen Block Sub-Assembly 6301254       | 20, 21                 |
| F0610025 Socket Head Capscrew M10 x 1.5 x 25               | 27, 29, 31, 33     | GDT 590 & 890 Assembly Swivel Manifold         | 40, 41                 |
| F0610035 Socket Head Capscrew M10 x 1.5 x 35               | 17                 | GDT 590 Assembly Sub-Head                      | 30, 31, 32, 33         |
| F0610130 Socket Head Capscrew M10 x 1.5 x 130              | 27                 | GDT 590 Regen Block Sub-Assembly 6360120       | 22, 23                 |
|                                                            |                    | General Arrangement                            | 4, 5                   |
|                                                            |                    | H0261100 Split Flange Half 1.00 Code 61        | 17, 42                 |
|                                                            |                    | H0262100 Split Flange Half 1.00 Code 62        | 17, 27, 29, 42         |

# INDEX

H0262125 Split Flange Half 1.25 Code 62 17, 31, 33, 42  
H0262150 Split Flange Half 1.50 Code 62 17, 42  
H0362100 Split Flange Plug 1.00 27, 29  
H0362125 Split Flange Plug 1.25 Code 62 31, 33  
Hex Head Capscrew 15  
Mach Main Shaft 7  
Mach Pin Keeper 15  
Mach Regen Manifold 19, 21, 23  
Mach Spacer Sleeve 15  
O-Ring Boss & Flat Face O-Ring Torque Specifications 48  
Parts Order Form 52  
Parts Order Policy and Procedure 51  
Plt Cover 25  
Procedures 45, 46  
S0190219 O-Ring 17, 27, 29, 42  
S0190222 O-Ring 17, 31, 33, 42  
S0190225 O-Ring 17, 42  
S0190244 O-Ring 7  
S0190270 O-Ring 7  
S0190274 O-Ring 7  
S0190372 Shim Set 7  
S0190376 O-Ring 7  
S0691620 O-Ring 27  
Seal Kit 6300622 19, 21, 23  
Seal Kit 6300624 21, 23  
Seal Kit 6300634 35  
Seal Kit SK00024 21, 23  
Seal Kit SK00026 19  
Seal Kit SK00043 19  
Seal Kit SK00047 21, 23  
Split Flange Kits Used in This Manual 42  
Stick Pin Decal 15  
Sub-Assembly Line Mount Manifold 34, 35  
Table of Contents 3  
Thread Treatment Diagram 44  
Torque Arm Kit 37, 39, 41  
Warranty 50  
Washer 15  
Wldt Link Pin 15  
Wldt Stick Pin 15  
Wtmg Lugs 15  
Wtmg Stick 5  
Wtmg Upper 5



# **GENESIS®**

The Promise of Performance.

## **CONTACT INFORMATION**

### **Genesis Attachments**

1000 Genesis Drive  
Superior, WI 54880 USA

Toll Free: 888-SHEAR-IT  
(888-743-2748)

Phone: 715.395.5252

E-mail:  
[info@genesisattachments.com](mailto:info@genesisattachments.com)

### **Europe/Africa/Middle East Genesis GmbH**

Teramostrasse 23  
87700 Memmingen, Germany

Phone: +49 83 31 9 25 98 0

Fax: +49 83 31 9 25 98 80  
[genesis-europe.com](http://genesis-europe.com)

E-mail:  
[info@genesis-europe.com](mailto:info@genesis-europe.com)

### **Asia Pacific Representative Office**

24 Upper Serangoon View #12-28  
Singapore 534205

Phone: +65 9673 9730

E-mail:  
[tchoo@genesisattachments.com](mailto:tchoo@genesisattachments.com)

### **Central America & Colombia**

Cra 13A #89-38 / Ofi 613  
Bogota, Colombia

Phone: +57 1 610 8160 / 795 8747

E-mail:  
[contact@themsagroup.com](mailto:contact@themsagroup.com)

View and download all manuals: [genesisattachments.com/manuals](http://genesisattachments.com/manuals)  
Patents: [genesisattachments.com/products/patents](http://genesisattachments.com/products/patents)