



# **GENESIS®**

The Promise of Performance.

## **GXT 445R EVO Mobile Shear**

### **PARTS MANUAL**



## CONTACT INFORMATION

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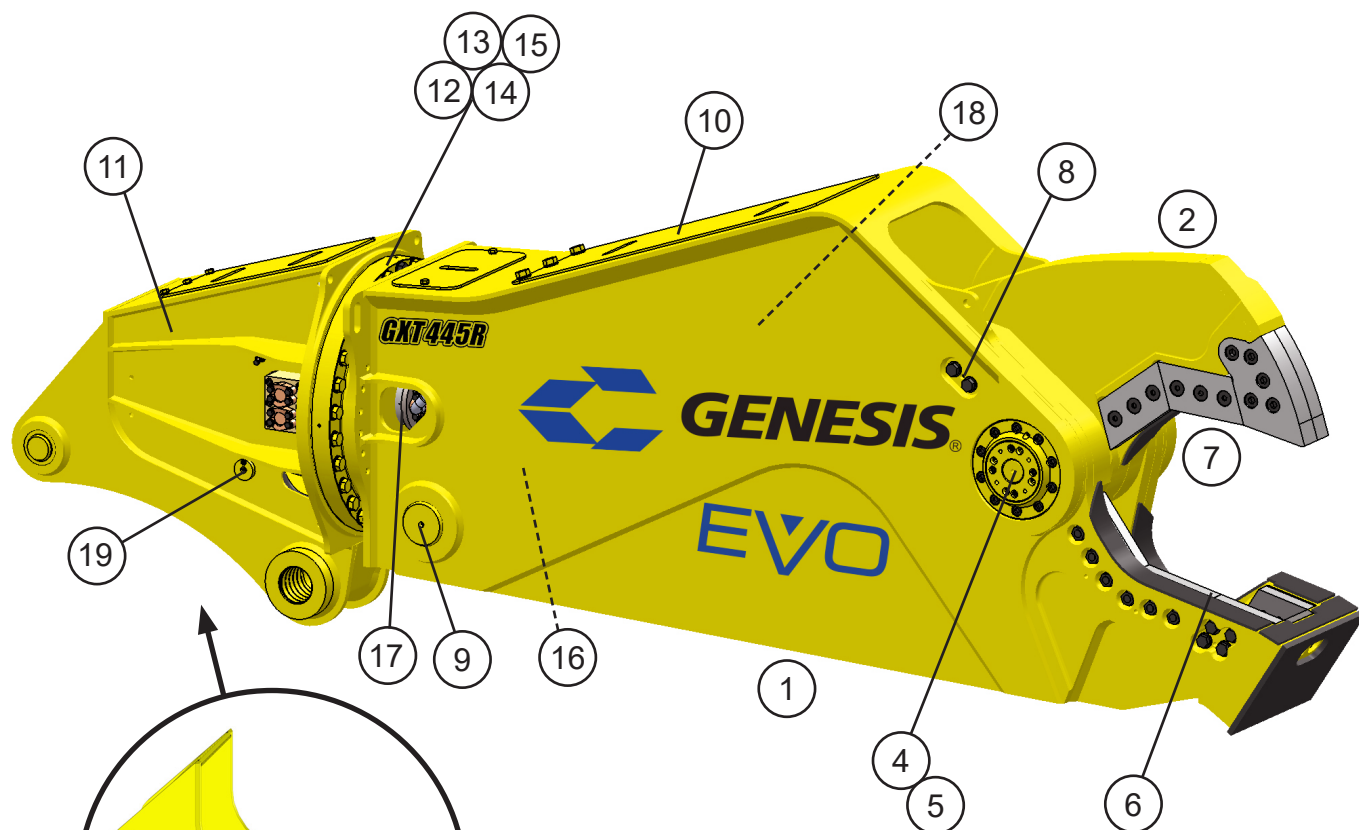
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# GENERAL ARRANGEMENT



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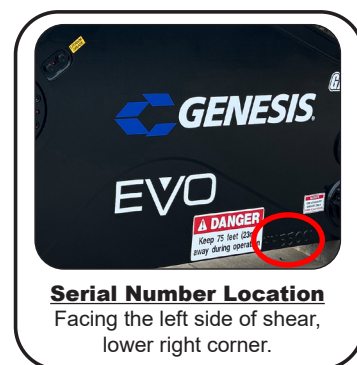
## Wtmg Lug Upper Head

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

**USA**

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715-395-3488 +49 83 31 9 25 98 0



## **Serial Number Location**

Facing the left side of shear,  
lower right corner.



## GENERAL ARRANGEMENT

| ITEM | QTY | PART NUMBER | DESCRIPTION                            |
|------|-----|-------------|----------------------------------------|
| 1    | 1   | *           | Wtmg Stick                             |
| 2    | 1   | *           | Wtmg Upper                             |
| 3    |     | *           | Wtmg Lug Upper Head                    |
| 4    |     | See page 6  | Assembly Pivot Group - Right Side      |
| 5    |     | See page 8  | Assembly Pivot Group - Left Side       |
| 6    |     | See page 10 | Assembly Lower Blades                  |
| 7    |     | See page 12 | Assembly Upper Blades                  |
| 8    |     | See page 14 | Assembly Auto Guide                    |
| 9    |     | See page 16 | Assembly Cylinder Pins                 |
| 10   |     | See page 18 | Assembly Access Covers                 |
| 11   |     | See page 20 | Assembly Upper Head                    |
| 12   |     | See page 22 | Assembly Rotation                      |
| 13   |     | See page 24 | Assembly Rotation Circuit              |
| 14   |     | See page 26 | Sub-Assembly Rotate Cross-over / C'bal |
| 15   |     | See page 28 | Sub-Assembly Line Mount Manifold       |
| 16   |     | See page 30 | Assembly Open and Close Circuit        |
| 17   |     | See page 32 | Assembly Swivel Manifold               |
| 18   |     | See page 34 | Sub-Assembly Regen Block               |
| 19   |     | See page 36 | Assembly Slewing Ring Lubrication      |

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

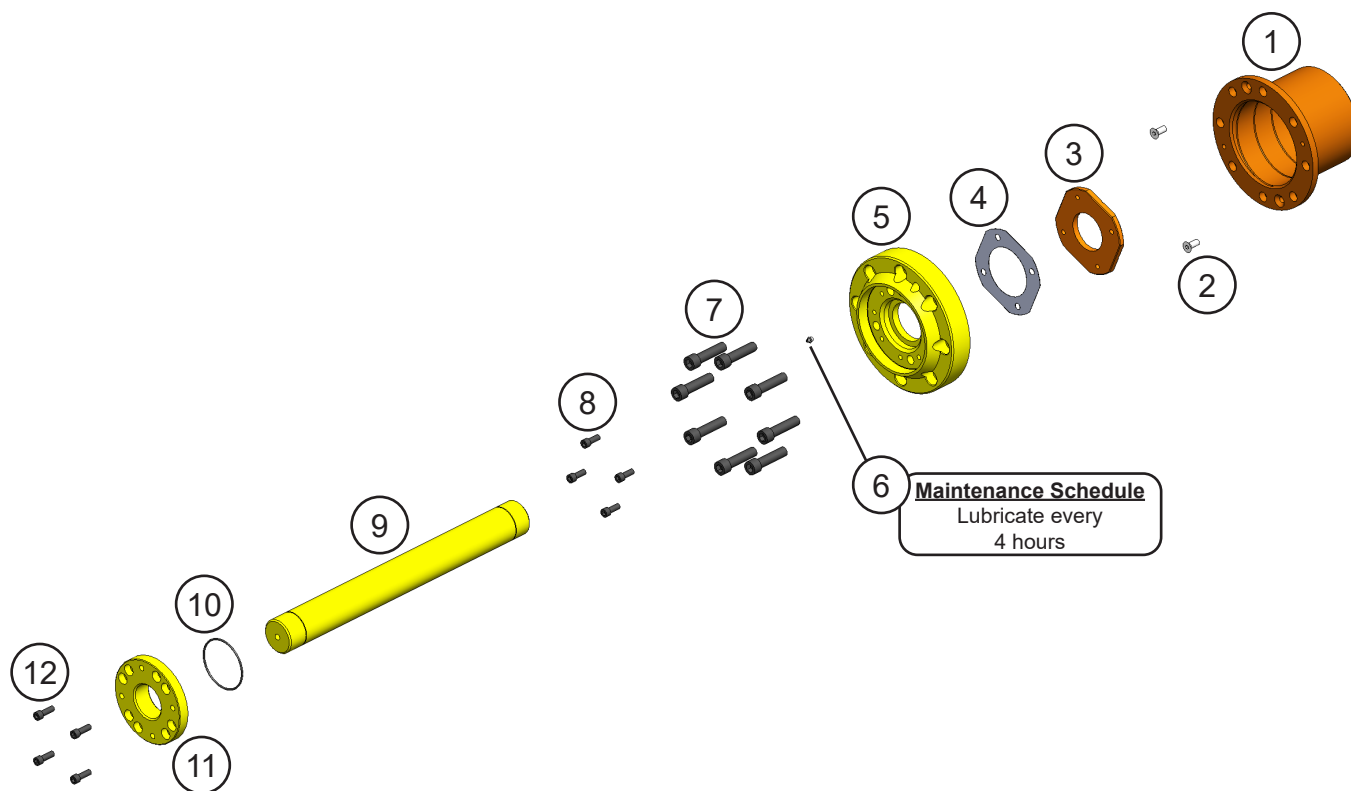
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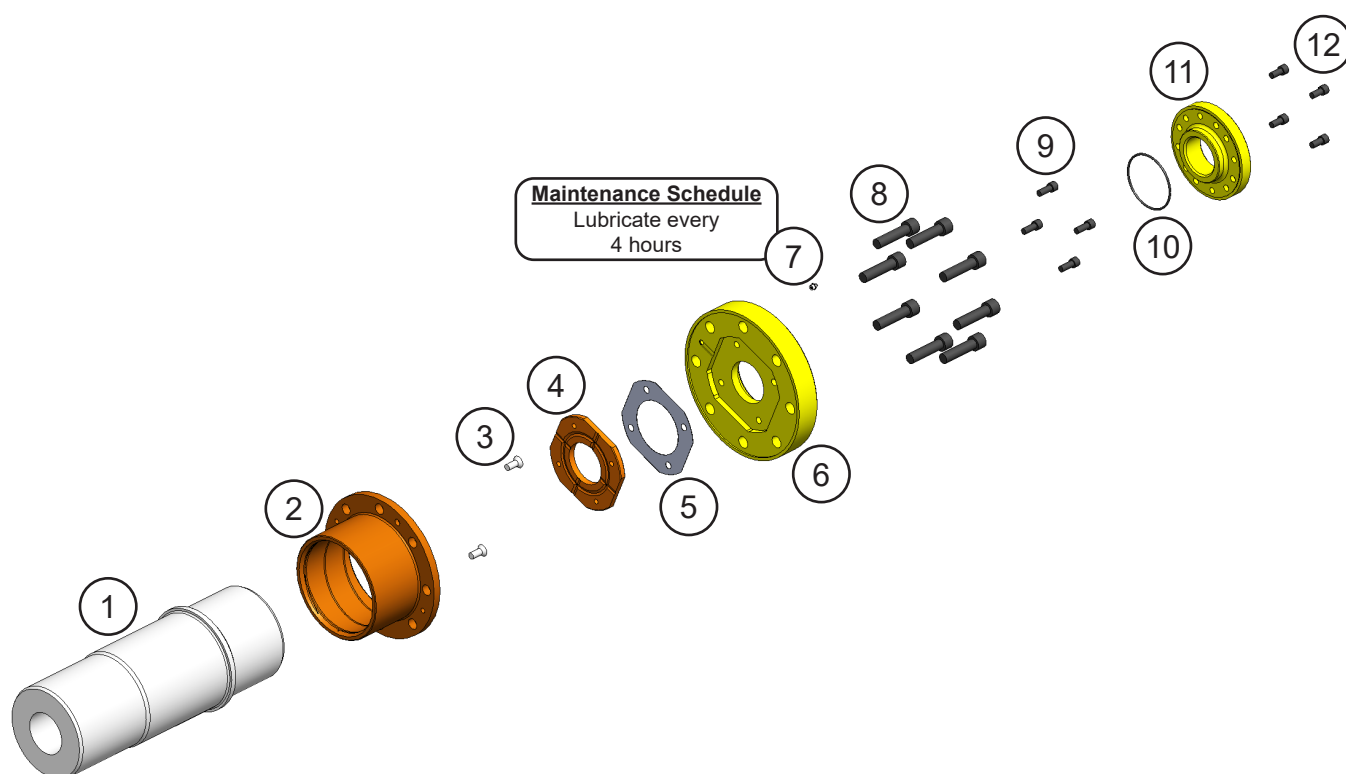
## ASSEMBLY PIVOT GROUP - RIGHT SIDE



## ASSEMBLY PIVOT GROUP - RIGHT SIDE

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 1    | 1   | 1103125     | Mach Bearing                         |
| 2    | 2   | F0412030    | Flat Head Capscrew M12 x 1.75 x 30   |
| 3    | 1   | 1110389     | Mach Thrust Washer                   |
| 4    | 1   | 1110396     | Shim Set Thrust Washer               |
| 5    | 1   | 1110385     | Mach End Cap                         |
| 6    | 1   | 6200002     | Grease Fitting                       |
| 7    | 8   | F0620080    | Socket Head Capscrew M20 x 2.50 x 80 |
| 8    | 4   | F0612030    | Socket Head Capscrew M12 x 1.75 x 30 |
| 9    | 1   | 1110404     | Mach Tie Rod                         |
| 10   | 1   | S0190244    | O-Ring                               |
| 11   | 1   | 1110387     | Mach Tie Rod Nut                     |
| 12   | 4   | F0612025    | Socket Head Capscrew M12 x 1.75 x 25 |

## ASSEMBLY PIVOT GROUP - LEFT SIDE



## ASSEMBLY PIVOT GROUP - LEFT SIDE

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 1    | 1   | *           | Mach Main Shaft                      |
| 2    | 1   | 1103126     | Mach Bearing                         |
| 3    | 2   | F0412030    | Flat Head Capscrew M12 x 1.75 x 30   |
| 4    | 1   | 1110389     | Mach Thrust Washer                   |
| 5    | 1   | 1110396     | Shim Set Thrust Washer               |
| 6    | 1   | 1110385     | Mach End Cap                         |
| 7    | 1   | 6200002     | Grease Fitting                       |
| 8    | 8   | F0620080    | Socket Head Capscrew M20 x 2.50 x 80 |
| 9    | 4   | F0612030    | Socket Head Capscrew M12 x 1.75 x 30 |
| 10   | 1   | S0190244    | O-Ring                               |
| 11   | 1   | 1110387     | Mach Tie Rod Nut                     |
| 12   | 4   | F0612025    | Socket Head Capscrew M12 x 1.75 x 25 |

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

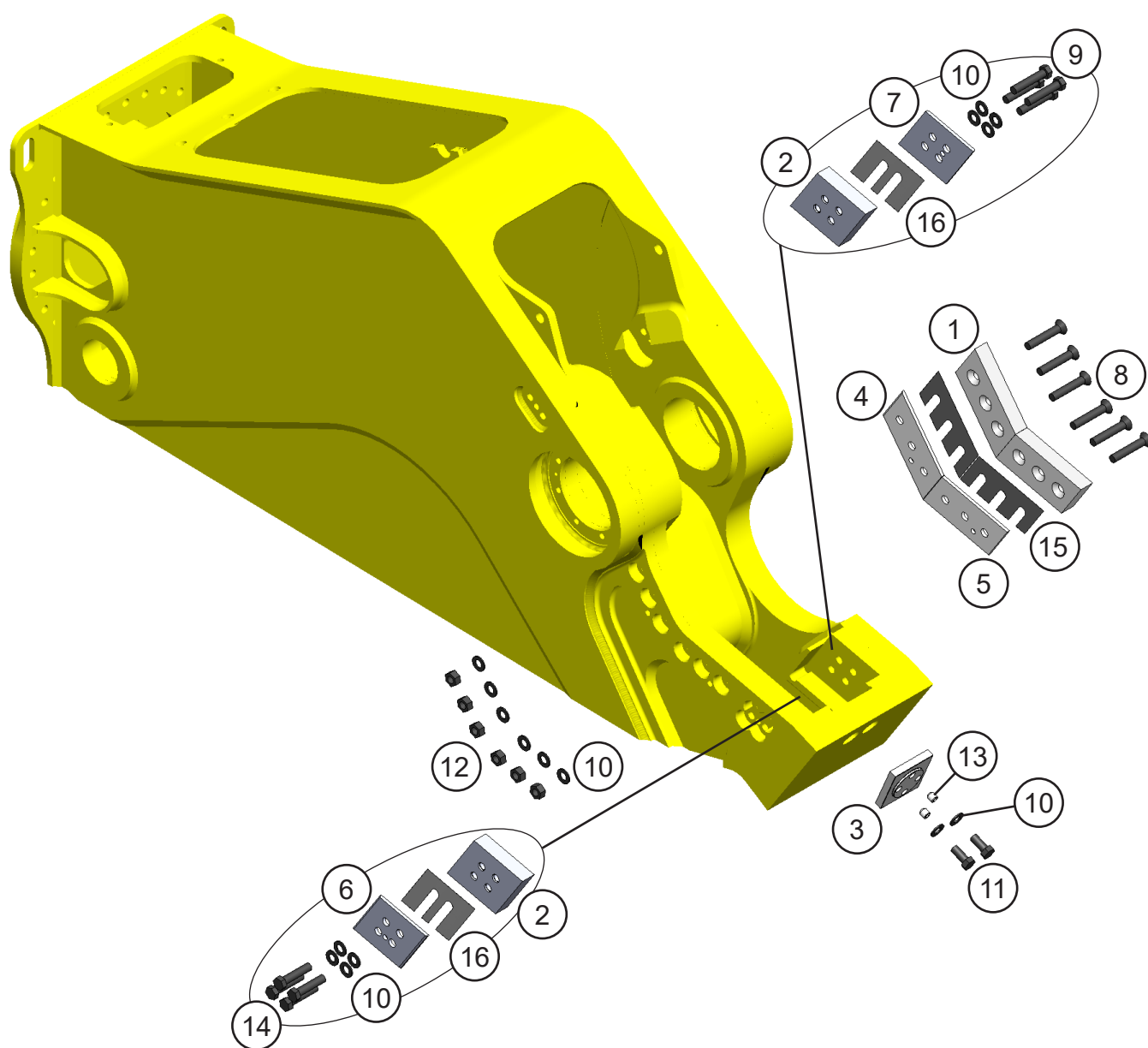
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## ASSEMBLY LOWER BLADES

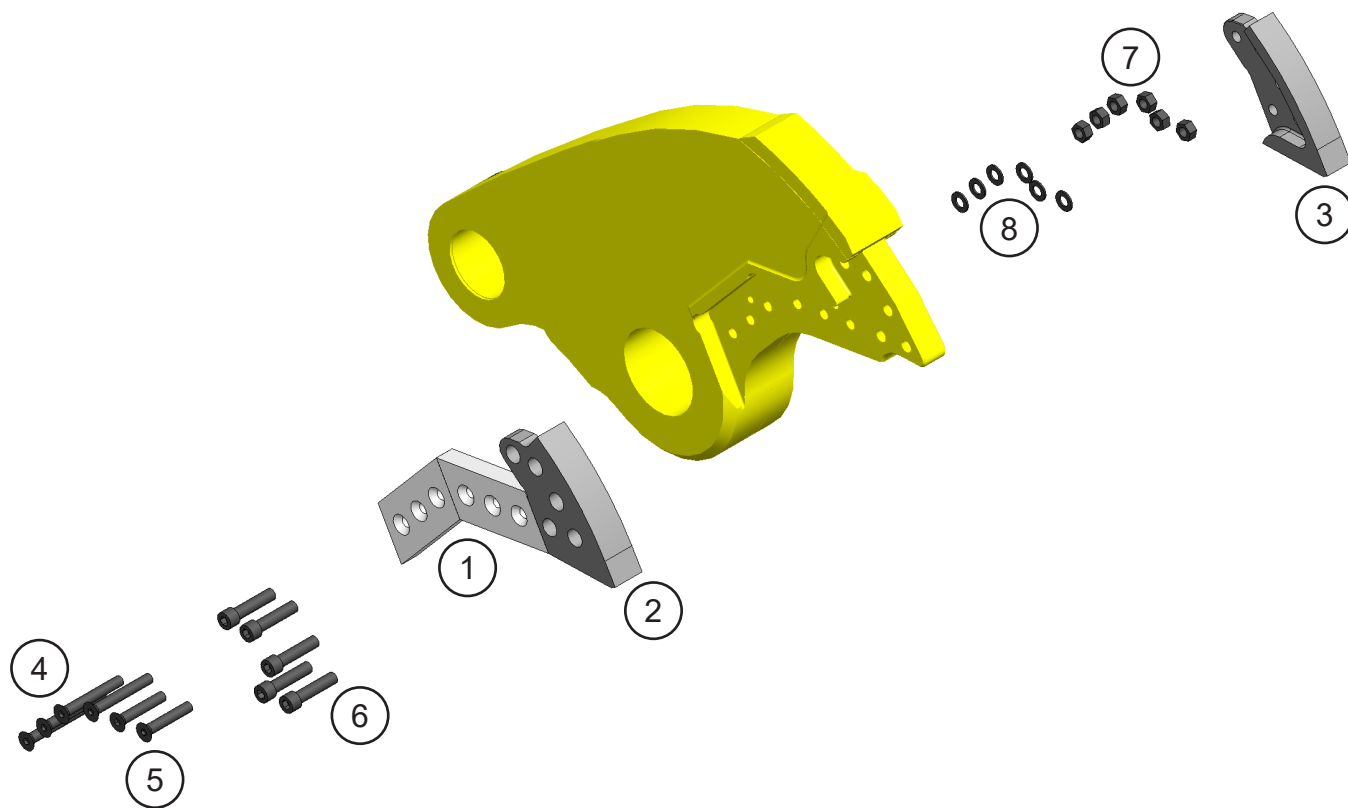




## ASSEMBLY LOWER BLADES

| ITEM | QTY | PART NUMBER | DESCRIPTION                                             |
|------|-----|-------------|---------------------------------------------------------|
| 1    | 2   | 1106412     | Mach Blade                                              |
| 2    | 2   | 1105941     | Mach Blade Guide                                        |
| 3    | 1   | 1101955     | Mach Blade Razor                                        |
| 4    | 1   | 1106550     | Mach Adjust Plate Primary                               |
| 5    | 1   | 1106548     | Mach Adjust Plate Secondary                             |
| 6    | 1   | 1106413     | Mach Guide Blade Adjust Plate                           |
| 7    | 1   | 1106414     | Mach Guide Blade Adjust Plate                           |
| 8    | 6   | F0588500    | Flat Head Capscrew $\frac{7}{8}$ - 9 x 5                |
| 9    | 4   | F0288450    | Hex Head Capscrew $\frac{7}{8}$ - 9 x 4 $\frac{1}{2}$   |
| 10   | 16  | F1300088    | Flat Washer Narrow $\frac{7}{8}$                        |
| 11   | 2   | F0288200    | Hex Head Capscrew $\frac{7}{8}$ - 9 x 2                 |
| 12   | 6   | F0908809    | Hex Nut $\frac{7}{8}$ - 9                               |
| 13   | 2   | F2588088    | Set Screw Socket Head $\frac{7}{8}$ - 9 x $\frac{7}{8}$ |
| 14   | 4   | F0288400    | Hex Head Capscrew $\frac{7}{8}$ - 9 x 4                 |
| 15   |     | 1106693     | Shim Set, Blade                                         |
| 16   |     | 1106477     | Shim Set, Guide Blade                                   |

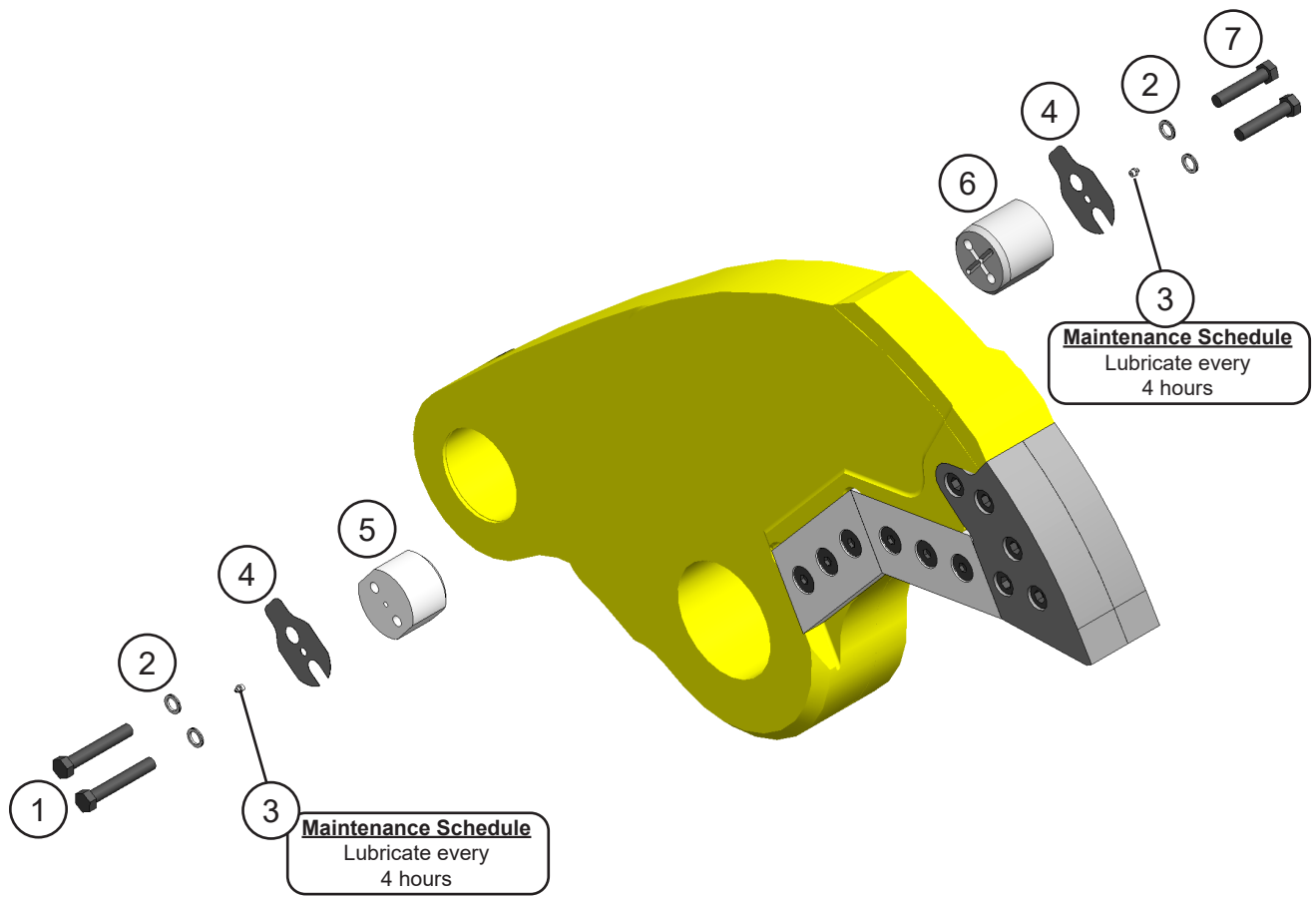
## ASSEMBLY UPPER BLADES



## ASSEMBLY UPPER BLADES

| ITEM | QTY | PART NUMBER | DESCRIPTION                                            |
|------|-----|-------------|--------------------------------------------------------|
| 1    | 2   | 1106412     | Mach Blade                                             |
| 2    | 1   | 1105939     | Mach Blade Tip Right                                   |
| 3    | 1   | 1105940     | Mach Blade Tip Left                                    |
| 4    | 4   | F0588650    | Flat Head Capscrew $\frac{7}{8}$ - 9 x 6 $\frac{1}{2}$ |
| 5    | 2   | F0588500    | Flat Head Capscrew $\frac{7}{8}$ - 9 x 5               |
| 6    | 5   | 1103609     | Mach Bolt Socket Head Capscrew 1 - 8 x 4 $\frac{1}{4}$ |
| 7    | 6   | F0908809    | Hex Nut $\frac{7}{8}$ - 9                              |
| 8    | 6   | F1300088    | Flat Washer Narrow $\frac{7}{8}$                       |

# ASSEMBLY AUTO GUIDE



## ASSEMBLY AUTO GUIDE

| ITEM | QTY | PART NUMBER | DESCRIPTION                       |
|------|-----|-------------|-----------------------------------|
| 1    | 2   | F0120130    | Hex Head Capscrew M20 x 2.5 x 130 |
| 2    | 4   | F1900075    | Wedge Lock Washer $\frac{3}{4}$   |
| 3    | 2   | 6200002     | Grease Fitting                    |
| 4    |     | 1110417     | Shim Set, Auto Guide              |
| 5    | 1   | *           | Mach Auto Guide, Blade Side       |
| 6    | 1   | *           | Mach Auto Guide, Guide Side       |
| 7    | 2   | F0120100    | Hex Head Capscrew M20 x 2.5 x 100 |

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

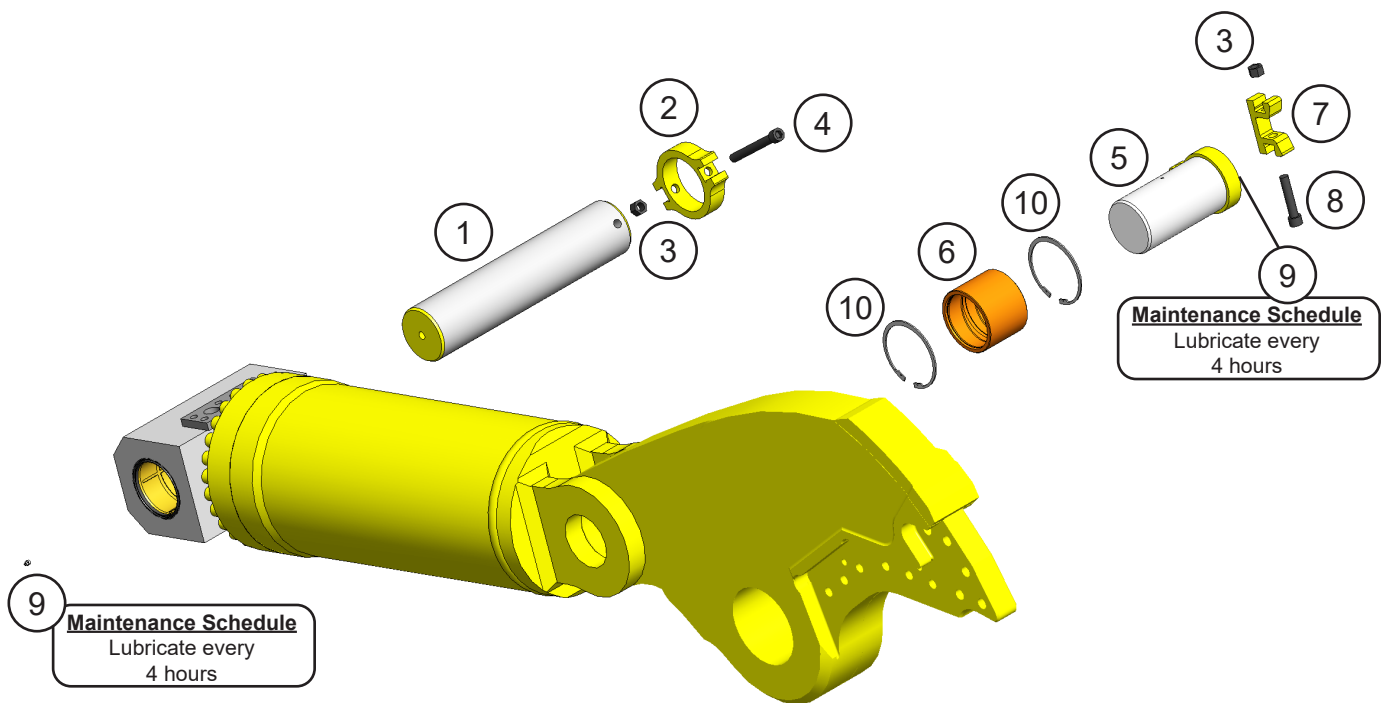
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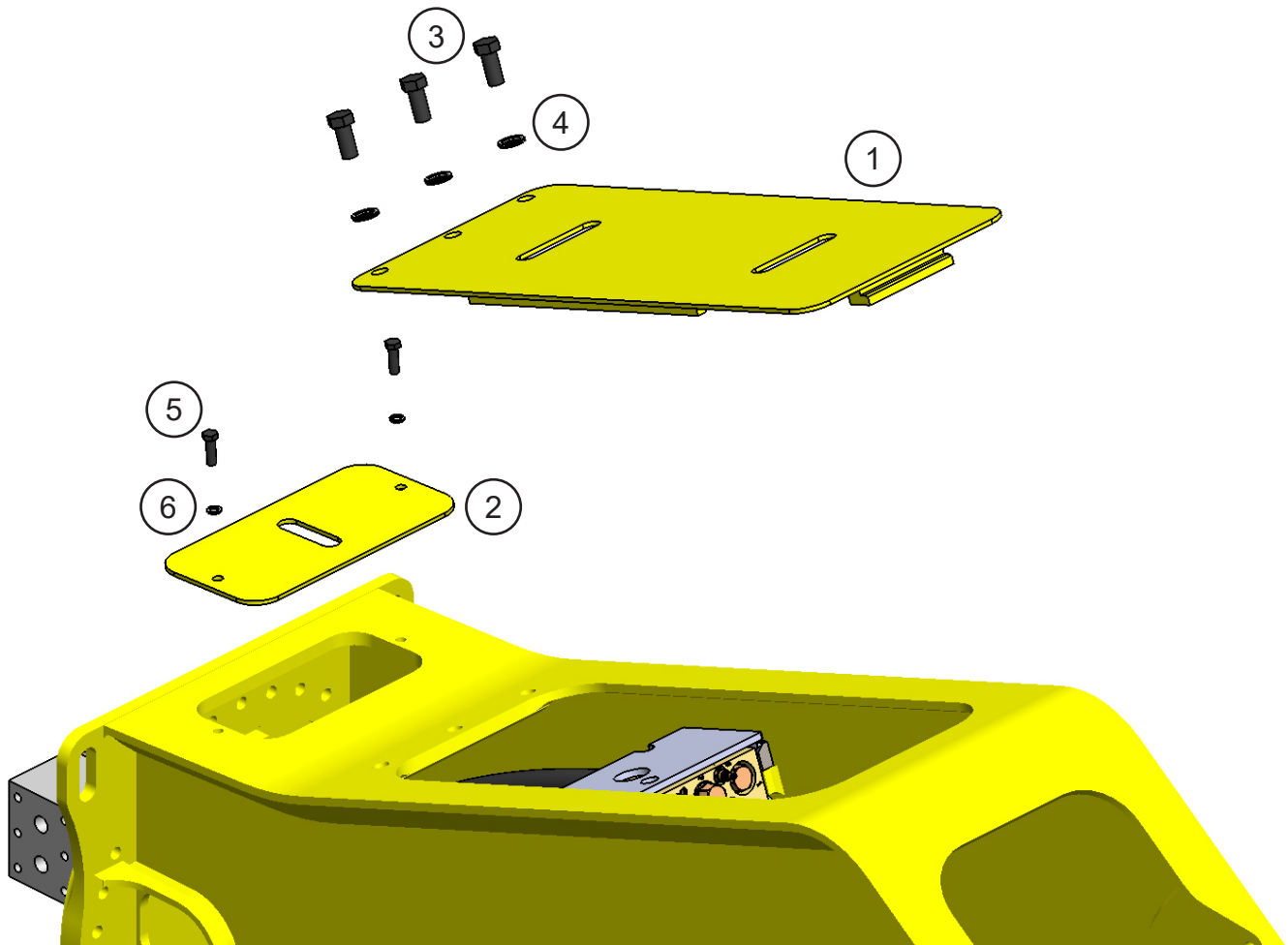
## ASSEMBLY CYLINDER PINS



## ASSEMBLY CYLINDER PINS

| ITEM | QTY | PART NUMBER | DESCRIPTION                            |
|------|-----|-------------|----------------------------------------|
| 1    | 1   | 1109142     | Mach Pin Rear                          |
| 2    | 1   | 1106571     | Mach Pin Keeper Rear                   |
| 3    | 2   | F1020250    | Nylock Hex Nut M20 x 2.50              |
| 4    | 1   | F0620180    | Socket Head Capscrew M20 x 2.50 x 180  |
| 5    | 1   | 1106546     | Wldt Front Cylinder Pin                |
| 6    | 1   | 1110395     | Mach Bearing Upper Cylinder Connection |
| 7    | 1   | 3500350     | Mach Pin Keeper (Clevis)               |
| 8    | 1   | F0620100    | Socket Head Capscrew M20 x 2.50 x 100  |
| 9    | 2   | 6200002     | Grease Fitting                         |
| 10   | 2   | 6200099     | Snap Ring                              |

## ASSEMBLY ACCESS COVERS

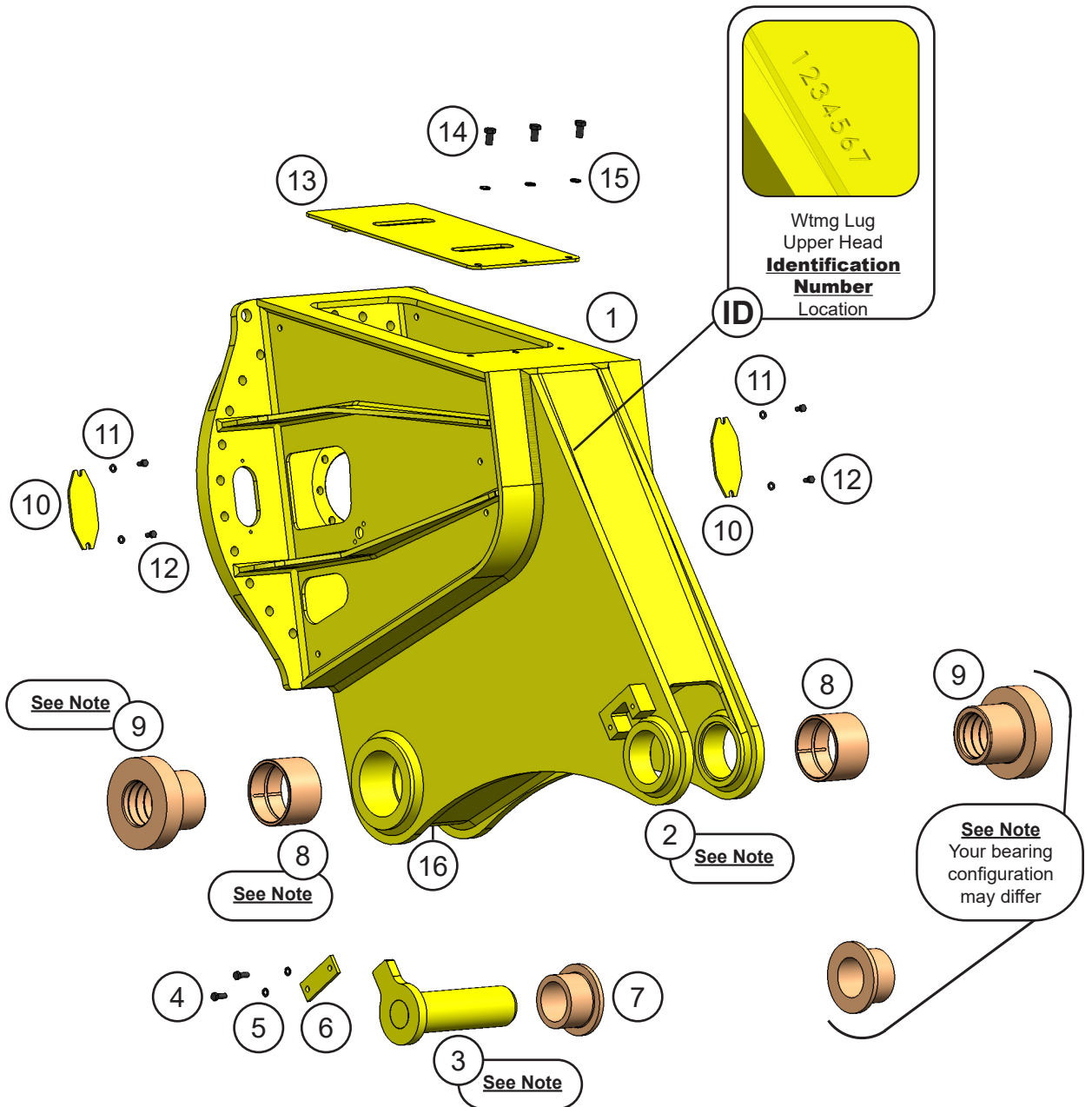




## ASSEMBLY ACCESS COVERS

| ITEM | QTY | PART NUMBER | DESCRIPTION                      |
|------|-----|-------------|----------------------------------|
| 1    | 1   | 1110418     | Wldt Cover                       |
| 2    | 1   | 1110423     | Plt Rear Cover                   |
| 3    | 3   | F0124040    | Hex Head Capscrew M24 x 3 x 40   |
| 4    | 3   | F1900100    | Wedge Lock Washer 1"             |
| 5    | 2   | F0116050    | Hex Head Capscrew M16 x 2.0 x 50 |
| 6    | 2   | F1900063    | Wedge Lock Washer 5/8            |

# ASSEMBLY UPPER HEAD



## ASSEMBLY UPPER HEAD

| ITEM | QTY | PART NUMBER | DESCRIPTION                       |
|------|-----|-------------|-----------------------------------|
| 1    | 1   | *           | Mach Sub Head                     |
| 2    | 1   | *           | Mach Lug Upper Head               |
| 3    | 1   | *           | Wldt Pin                          |
| 4    | 2   | F0112030    | Hex Head Capscrew M12 x 1.75 x 30 |
| 5    | 2   | F1401200    | Lock Washer M12                   |
| 6    | 1   | 5500752     | Plt Strap                         |
| 7    | 2   | *           | Mach Spacer Sleeve                |
| 8    | 2   | *           | Mach Bearing                      |
| 9    | 2   | *           | Mach Boom Bearing                 |
| 10   | 2   | 1105883     | Plt Bolt Cover                    |
| 11   | 4   | F1201021    | Flat Washer M10                   |
| 12   | 4   | F0110020    | Hex Head Capscrew M10 x 1.50 x 20 |
| 13   | *   | *           | Cover                             |
| 14   | *   | *           | Hex Head Capscrew                 |
| 15   | *   | *           | Washer                            |
| 16   | 1   | 6200002     | Grease Fitting                    |

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

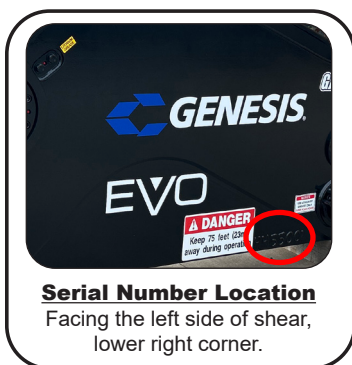
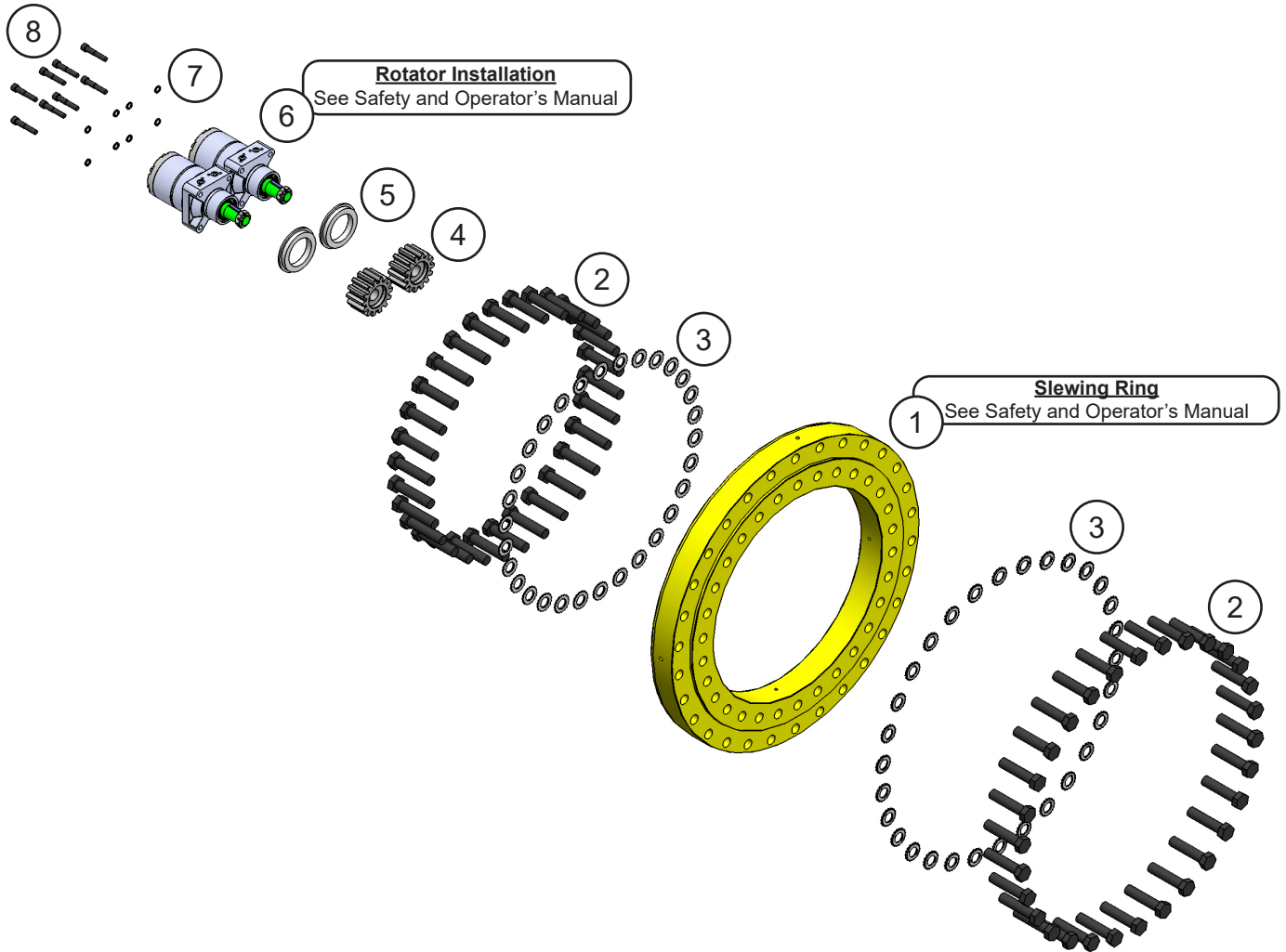
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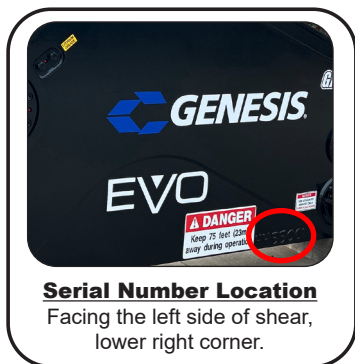
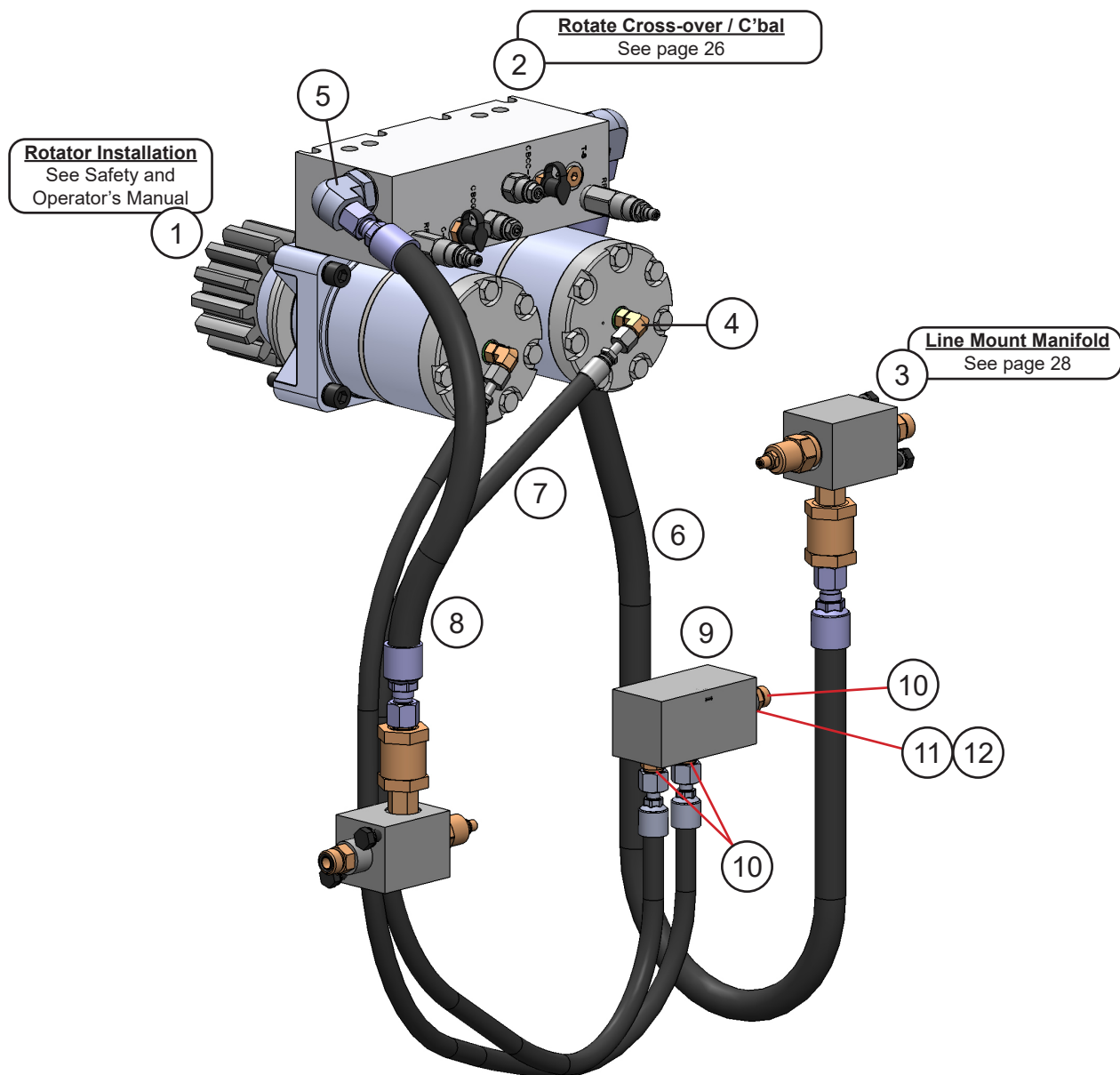
# ASSEMBLY ROTATION



## ASSEMBLY ROTATION

| ITEM | QTY | PART NUMBER | DESCRIPTION                                 |
|------|-----|-------------|---------------------------------------------|
| 1    | 1   | 6300429     | Bearing Slewing                             |
| 2    | 60  | F0127120    | Hex Head Capscrew M27 x 3 x 120             |
| 3    | 60  | F2802700    | Hytorc Washer M27                           |
| 4    | 2   | 3101235     | Motor Pinion                                |
| 5    | 2   | 3501835     | Mach Spacer                                 |
| 6    | 2   | 6380090     | Motor                                       |
| 7    | 8   | F1900050    | Wedge Lock Washer 1/2                       |
| 8    | 8   | 1108011     | Socket Head Capscrew Custom M12 x 1.75 x 70 |

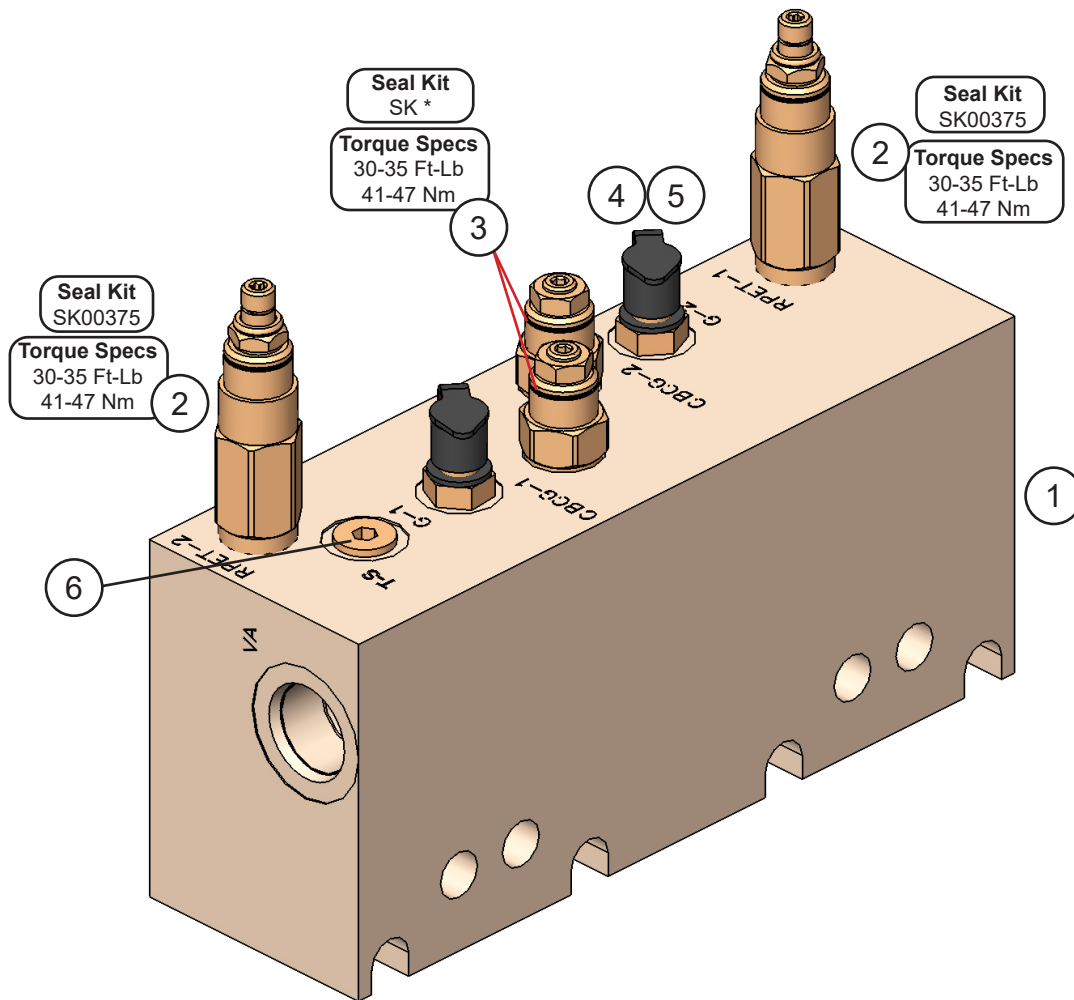
# ASSEMBLY ROTATION CIRCUIT



## ASSEMBLY ROTATION CIRCUIT

| ITEM | QTY | PART NUMBER | DESCRIPTION                            |
|------|-----|-------------|----------------------------------------|
| 1    | 1   | See page 22 | Assembly Rotation                      |
| 2    | 1   | See page 26 | Sub-Assembly Rotate Cross-over / C'bal |
| 3    | 2   | See page 28 | Sub-Assembly Line Mount Manifold       |
| 4    | 2   | 6300768     | Adapter 04MB-04MO-90                   |
| 5    | 2   | 6310082     | Adapter 12MB-08MO-90                   |
| 6    | 1   | 5517829     | Hose                                   |
| 7    | 2   | 5519832     | Hose                                   |
| 8    | 1   | 5517828     | Hose                                   |
| 9    | 1   | 6302661     | Case Drain Manifold                    |
| 10   | 3   | 6300018     | Adapter 06MB-06MO                      |
| 11   | 2   | F0110030    | Hex Head Capscrew M10 x 1.50 x 30      |
| 12   | 2   | F1900040    | Wedge Lock Washer $\frac{3}{8}$        |

# SUB-ASSEMBLY ROTATE CROSS-OVER / C'BAL





## SUB-ASSEMBLY ROTATE CROSS-OVER / C'BAL

| ITEM | QTY | PART NUMBER | DESCRIPTION                |                         |
|------|-----|-------------|----------------------------|-------------------------|
| 1    | 1   | 6360143     | Valve Block                |                         |
| 2    | 2   | 6301673     | Valve Relief               | <b>Seal Kit SK00375</b> |
| 3    | 2   | *           | Valve Counterbalance       | <b>Seal Kit SK *</b>    |
| 4    | 2   | 6300014     | Diagnostic Nipple 06MB     |                         |
| 5    | 2   | 6310001     | Diagnostic Nipple Dust Cap |                         |
| 6    | 1   | 6300153     | Plug Socket Head 06MB      |                         |

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

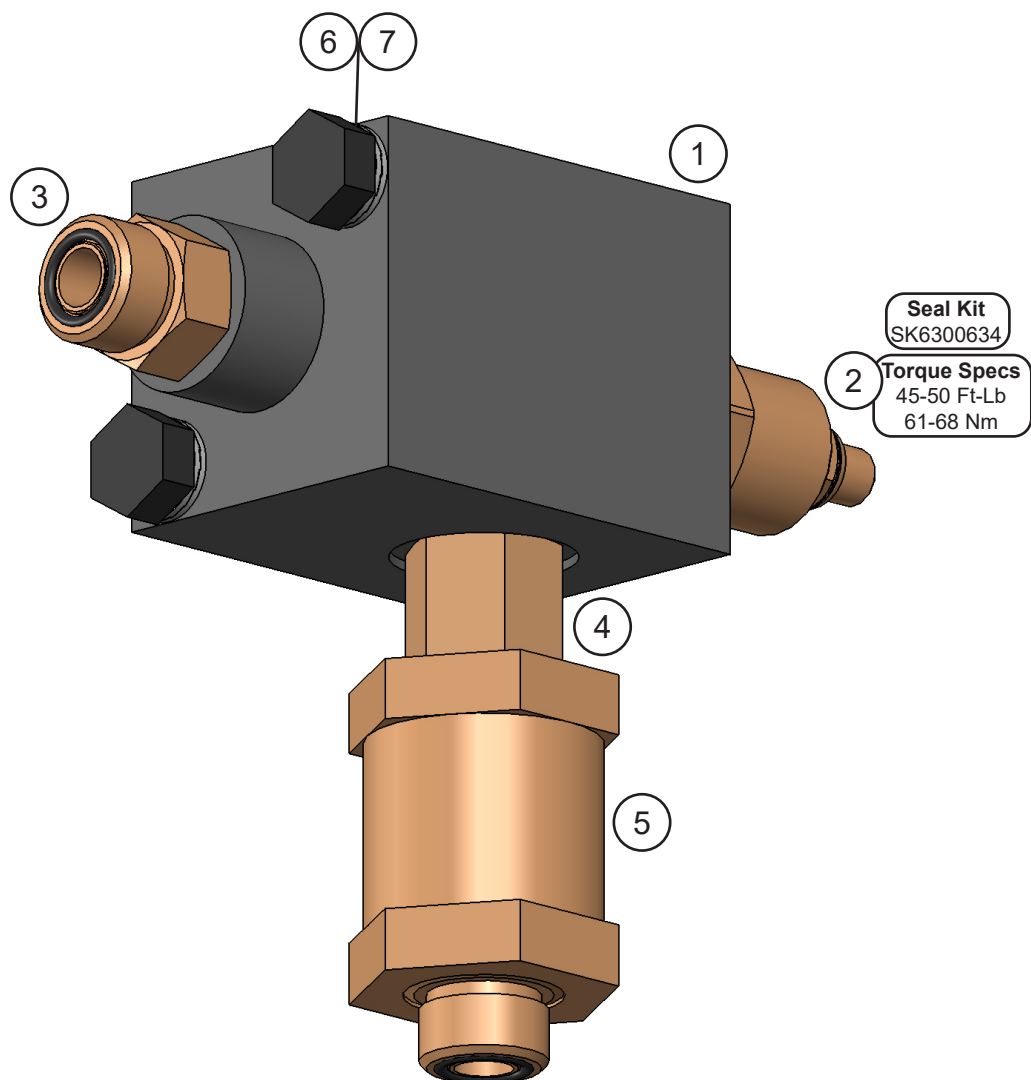
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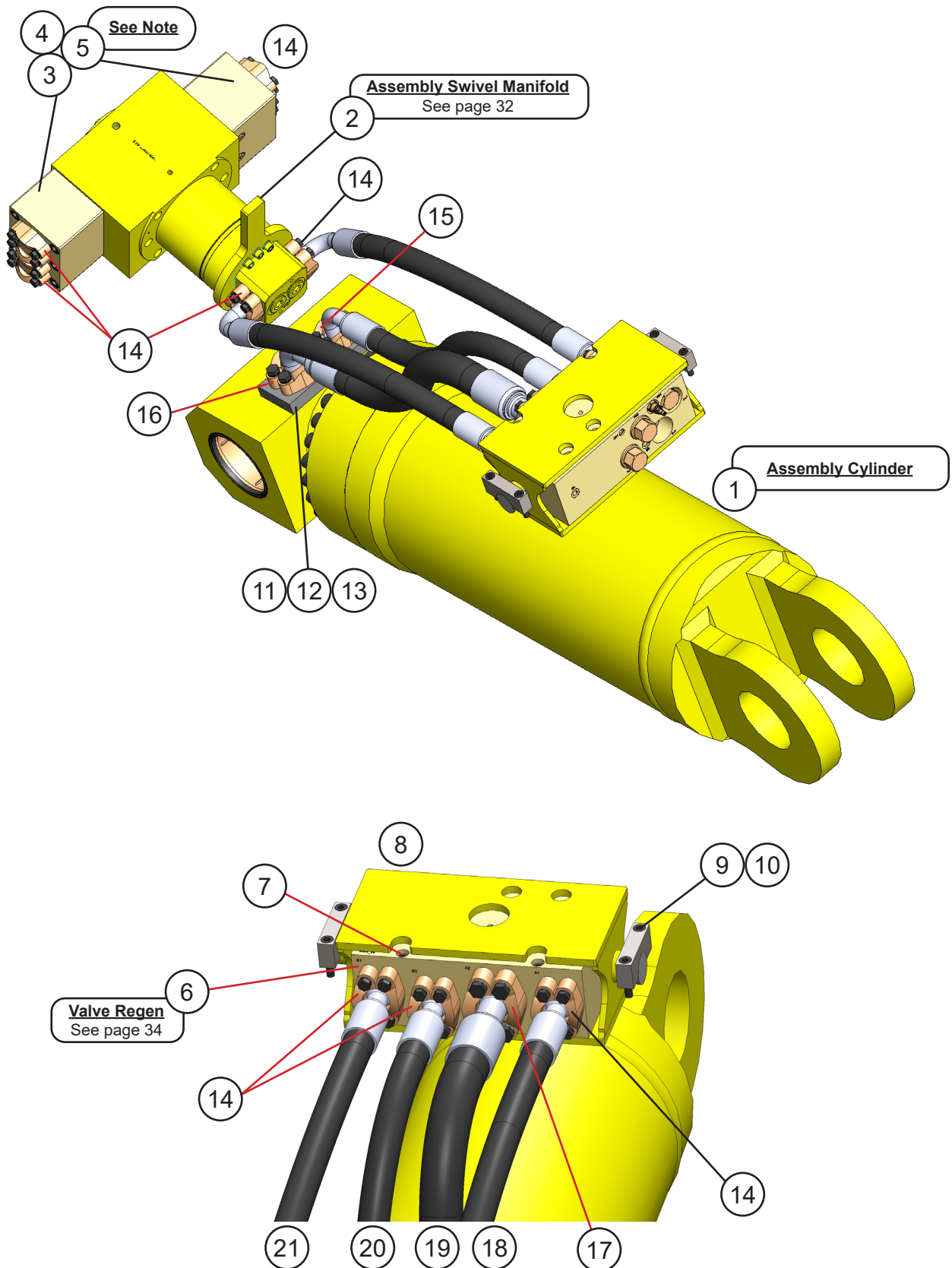
## SUB-ASSEMBLY LINE MOUNT MANIFOLD



## SUB-ASSEMBLY LINE MOUNT MANIFOLD

| ITEM | QTY | PART NUMBER | DESCRIPTION                       |
|------|-----|-------------|-----------------------------------|
| 1    | 1   | 6302658     | Valve Line Body                   |
| 2    | 1   | 6300361     | Valve Flow Control                |
| 3    | 1   | 6310050     | Adapter 08MB - 08MO               |
| 4    | 1   | 6310183     | Adapter 08MB - 08MB               |
| 5    | 1   | 6300364     | Filter                            |
| 6    | 2   | F0110030    | Hex Head Capscrew M10 x 1.50 x 30 |
| 7    | 2   | F1900040    | Wedge Lock Washer $\frac{3}{8}$   |

# ASSEMBLY OPEN AND CLOSE CIRCUIT



## ASSEMBLY OPEN AND CLOSE CIRCUIT

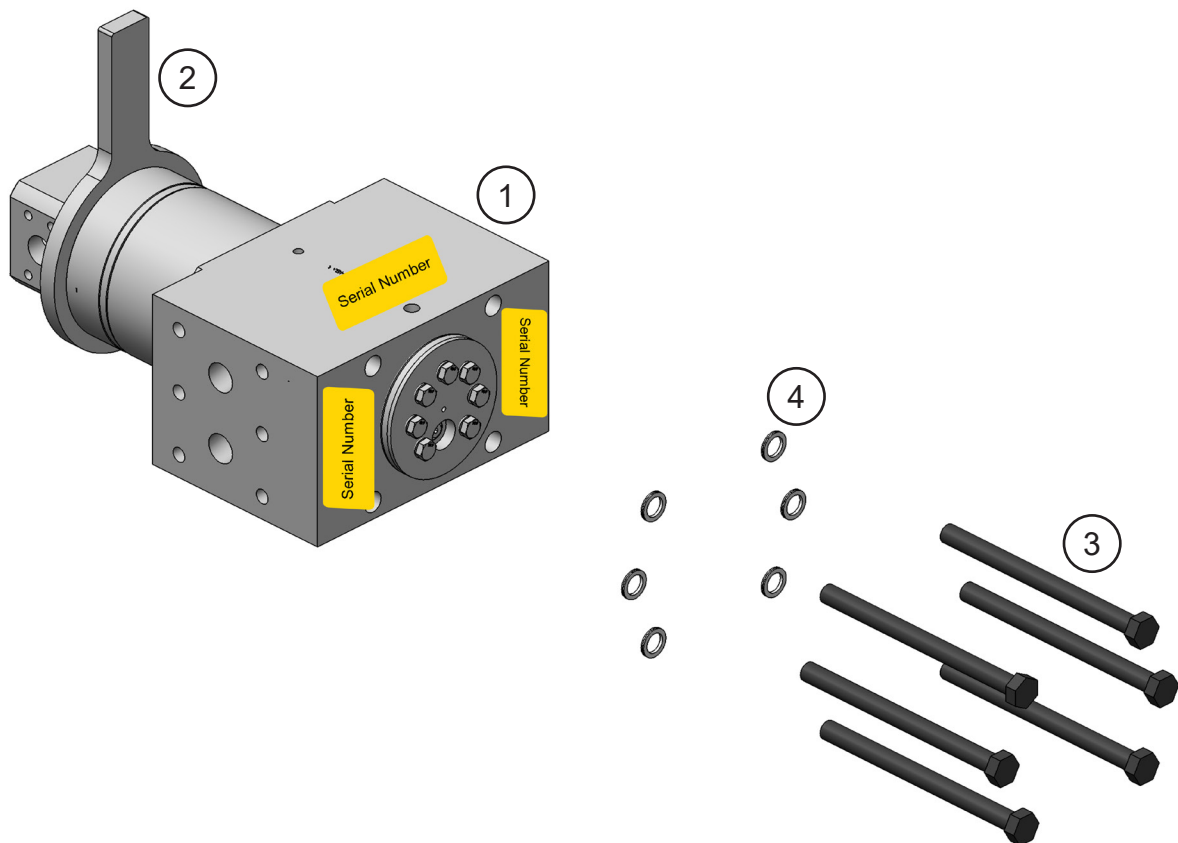
| ITEM | QTY | PART NUMBER                 | DESCRIPTION                           |
|------|-----|-----------------------------|---------------------------------------|
| 1    | 1   | *                           | Assembly Cylinder B14.0 R9.0 S32.75   |
| 2    | 1   | See page 32                 | Assembly Swivel Manifold              |
| 3    | 2   | *                           | Mach Port Block                       |
| 4    | 12  | *                           | Socket Head Capscrew                  |
| 5    | 4   | *                           | O-Ring                                |
| 6    | 1   | See page 34                 | Valve Regen                           |
| 7    | 4   | F0612120                    | Socket Head Capscrew M12 x 1.75 x 120 |
| 8    | 1   | 1109201                     | Valve Regen Tray                      |
| 9    | 4   | F0612055                    | Socket Head Capscrew M12 x 1.75 x 55  |
| 10   | 2   | 1109210                     | Regen Tray Upper Bearing              |
| 11   | 1   | 1110751                     | Cylinder Spacer                       |
| 12   | 1   | S0190225                    | O-Ring                                |
| 13   | 1   | S0190222                    | O-Ring                                |
| 14   | 9   | <b>1¼" Split Flange Kit</b> |                                       |
|      | 2   | H0262125                    | Split Flange Half 1.25 Code 62        |
|      | 4   | F0112050                    | Hex Head Capscrew M12 x 1.75 x 50     |
|      | 4   | F1900050                    | Wedge Lock Washer ½                   |
|      | 1   | S0190222                    | O-Ring                                |
| 15   | 1   | <b>1¼" Split Flange Kit</b> |                                       |
|      | 2   | H0262125                    | Split Flange Half 1.25 Code 62        |
|      | 4   | F0112070                    | Hex Head Capscrew M12 x 1.75 x 70     |
|      | 4   | F1900050                    | Wedge Lock Washer ½                   |
|      | 1   | S0190222                    | O-Ring                                |
| 16   | 1   | <b>1½" Split Flange Kit</b> |                                       |
|      | 2   | H0262150                    | Split Flange Half 1.50 Code 62        |
|      | 4   | F0116080                    | Hex Head Capscrew M16 x 2.0 x 90      |
|      | 4   | F1900063                    | Wedge Lock Washer ⅝                   |
|      | 1   | S0190225                    | O-Ring                                |
| 17   | 1   | <b>1½" Split Flange Kit</b> |                                       |
|      | 2   | H0262150                    | Split Flange Half 1.50 Code 62        |
|      | 4   | F0116060                    | Hex Head Capscrew M16 x 2.0 x 60      |
|      | 4   | F1900063                    | Wedge Lock Washer ⅝                   |
|      | 1   | S0190225                    | O-Ring                                |
| 18   | 1   | 1106562                     | Hose                                  |
| 19   | 1   | 1110710                     | Hose                                  |
| 20   | 1   | 1110711                     | Hose                                  |
| 21   | 1   | 1106561                     | Hose                                  |

\* 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 SWIVEL MANIFOLD



## ASSEMBLY SWIVEL MANIFOLD

| ITEM | QTY | PART NUMBER | DESCRIPTION                        |
|------|-----|-------------|------------------------------------|
| 1    | 1   | *           | Assembly Swivel Manifold           |
| 2    | 1   | *           | Torque Arm Kit                     |
| 3    | 6   | F0120260    | Hex Head Capscrew M20 x 2.50 x 260 |
| 4    | 6   | F1900075    | Wedge Lock Washer $\frac{3}{4}$    |

\* Part numbers are 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.

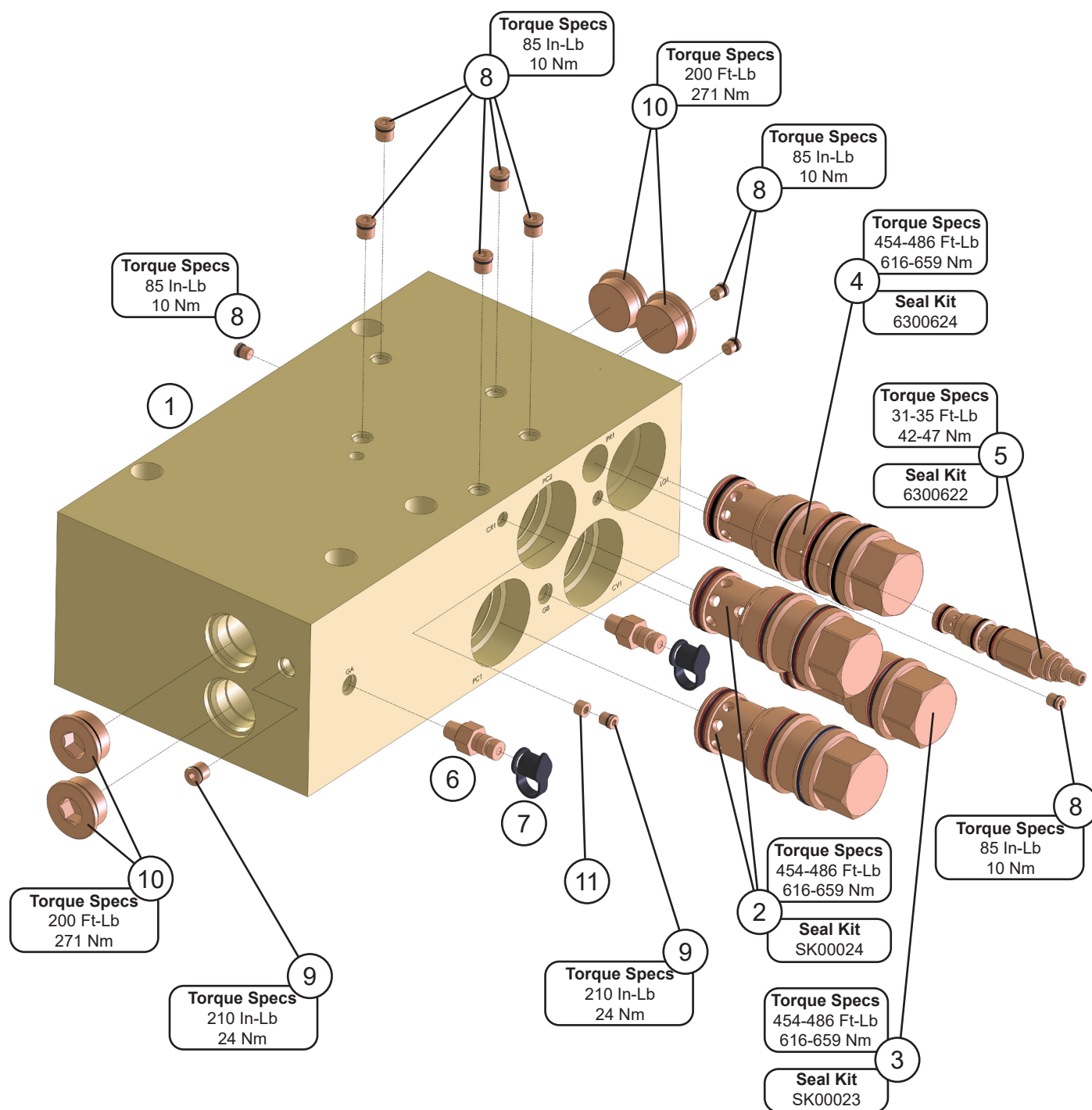
### USA

715-395-3488

### Europe

+49 83 31 9 25 98 0

# REGEN BLOCK SUB-ASSEMBLY - 6360021

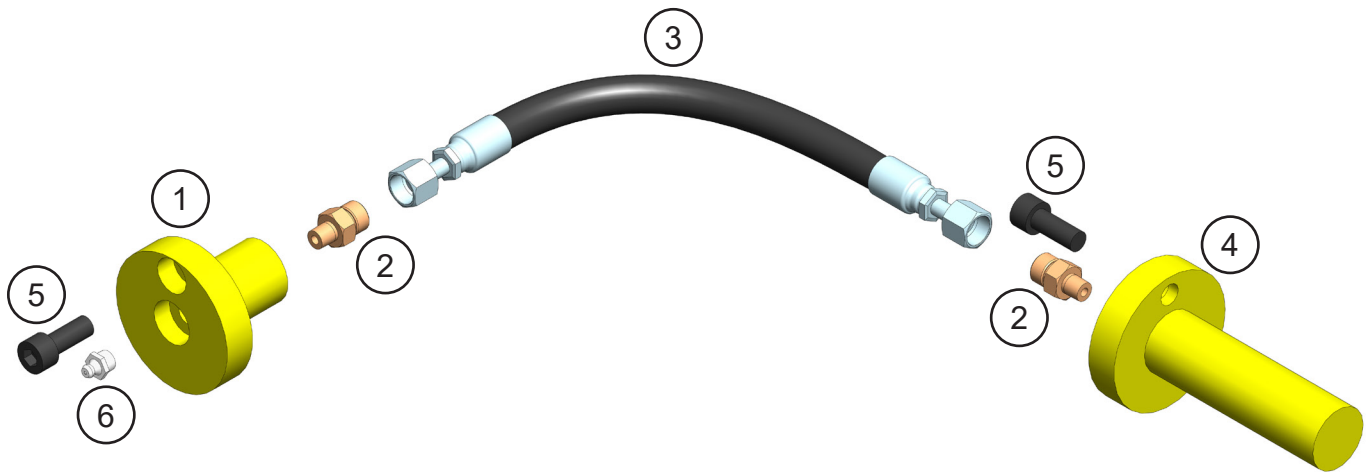




## REGEN BLOCK SUB-ASSEMBLY - 6360021

| ITEM | QTY | PART NUMBER | DESCRIPTION                        |                  |
|------|-----|-------------|------------------------------------|------------------|
| 1    | 1   | 6360021     | Manifold Block                     | Seal Kit SK00129 |
| 2    | 2   | 6300061     | Pilot to Close Check Valve         | Seal Kit SK00024 |
| 3    | 1   | 6380011     | Check Valve                        | Seal Kit SK00023 |
| 4    | 1   | 6300623     | Logic Element                      | Seal Kit 6300624 |
| 5    | 1   | 6300625     | Pressure Reducing Valve            | Seal Kit 6300622 |
| 6    | 2   | 6300088     | Diagnostic Nipple                  |                  |
| 7    | 2   | 6310001     | Diagnostic Nipple Dust Cap         |                  |
| 8    | 9   | 6300075     | Plug Socket Head 02MB              |                  |
| 9    | 4   | 6300076     | Plug Socket Head 04MB              |                  |
| 10   | 4   | 6300078     | Plug Socket Head 16MB              |                  |
| 11   | 1   | 6300903     | Plug Pipe Orifice 01MP 1/16-27 NPT |                  |

## ASSEMBLY SLEWING RING LUBRICATION



## ASSEMBLY SLEWING RING LUBRICATION

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 1    | 1   | 5512411     | Mach Grease Bulkhead Adaptor         |
| 2    | 2   | 6300731     | Adaptor 02MP-04MO                    |
| 3    | 1   | 5517830     | Hose                                 |
| 4    | 1   | 5512419     | Mach Slewing Ring Grease Adaptor     |
| 5    | 2   | F0610025    | Socket Head Capscrew M10 x 1.50 x 25 |
| 6    | 1   | 6200002     | Grease Fitting                       |

## BOLT TORQUE SPECIFICATIONS

Reference the product Thread Treatment Diagram on page 39 to determine whether to use wet or dry torque values for specific bolts.

Reference Procedures on page 40 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.

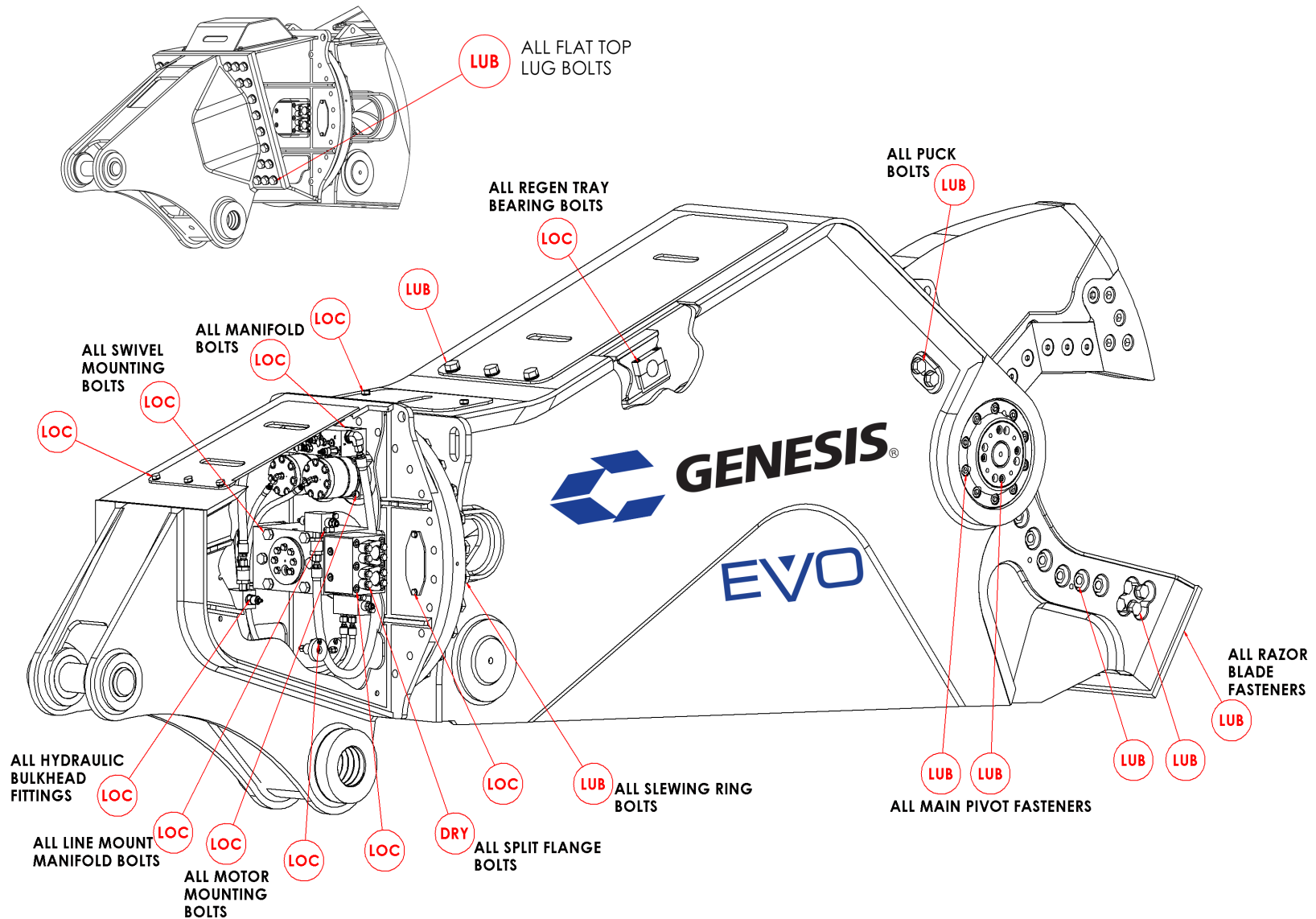
Never use an impact driver on a torque multiplier.

# THREAD TREATMENT DIAGRAM

## Mobile Shears

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

For thread treatment application procedures, see page 40. For prescribed torque values, see page 42.



## PROCEDURES

Reference the product Thread Treatment Diagram on page 39 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

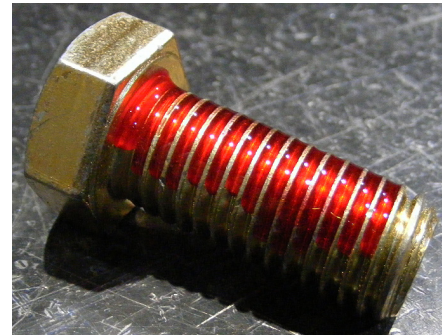
For bolted connections requiring threadlocker, use **Loctite 263** or equivalent applied using the following procedure:

- 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 42.

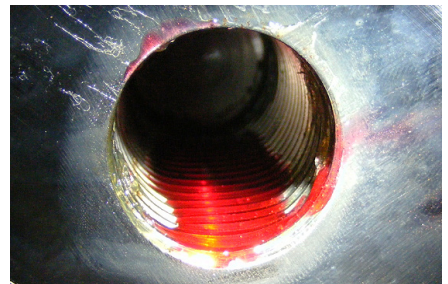
For threaded hydraulic fitting connections, use **Loctite 5452** or equivalent thread sealant in conjunction with **Loctite 7471** primer using the following procedure:

- 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 43.

Threadlocker



Blind Hole



Hydraulic Fitting



## PROCEDURES

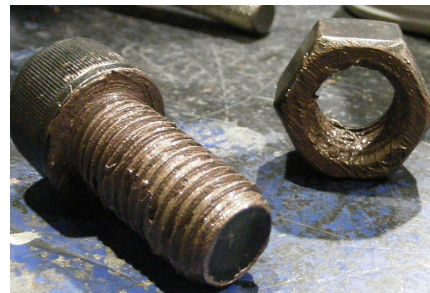
LUB

### 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 42.

Anti-Seize



DRY

### No Thread Treatment

- Clean and degrease all threads.
- Torque bolt to specified **Dry Torque Value**, see page 42.

# 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. Genesis does not cover labor costs to replace purchased parts replaced under warranty. There is no warranty period on wear parts or components.



Date: \_\_\_\_\_

Contact: \_\_\_\_\_

E-mail: \_\_\_\_\_

Billing Address:

Shipping Method: \_\_\_\_\_

Serial Number:

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

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