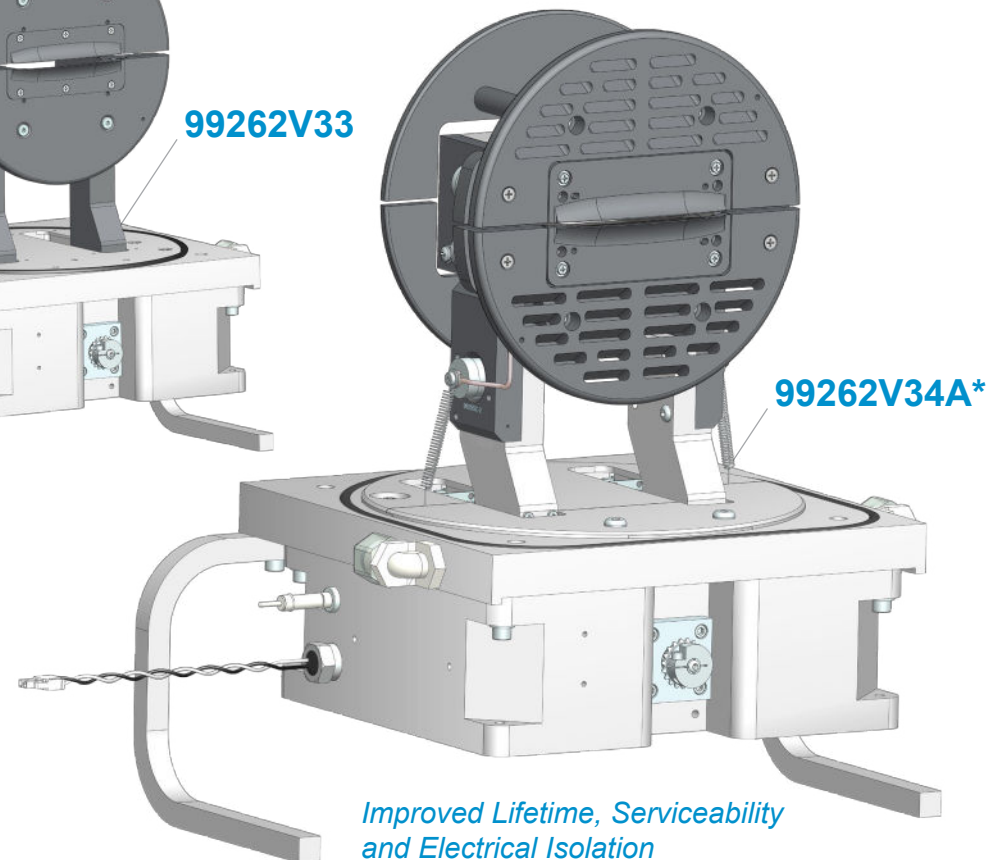
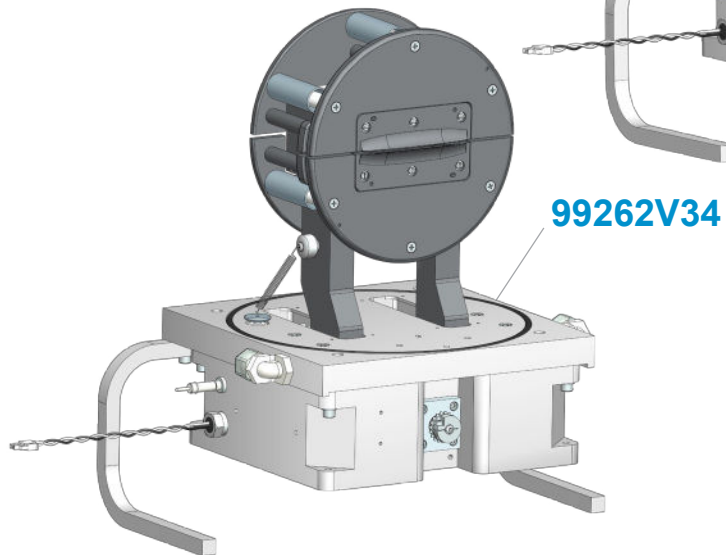
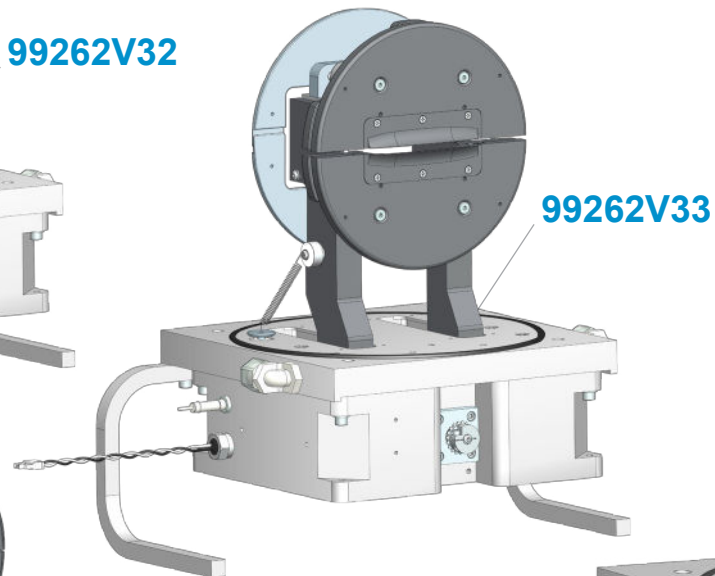





# Extraction Electrodes

## Axcelis<sup>®</sup> GSD

V32, V33, V34 & V34A\*



 512.259.0320  
800.621.9598

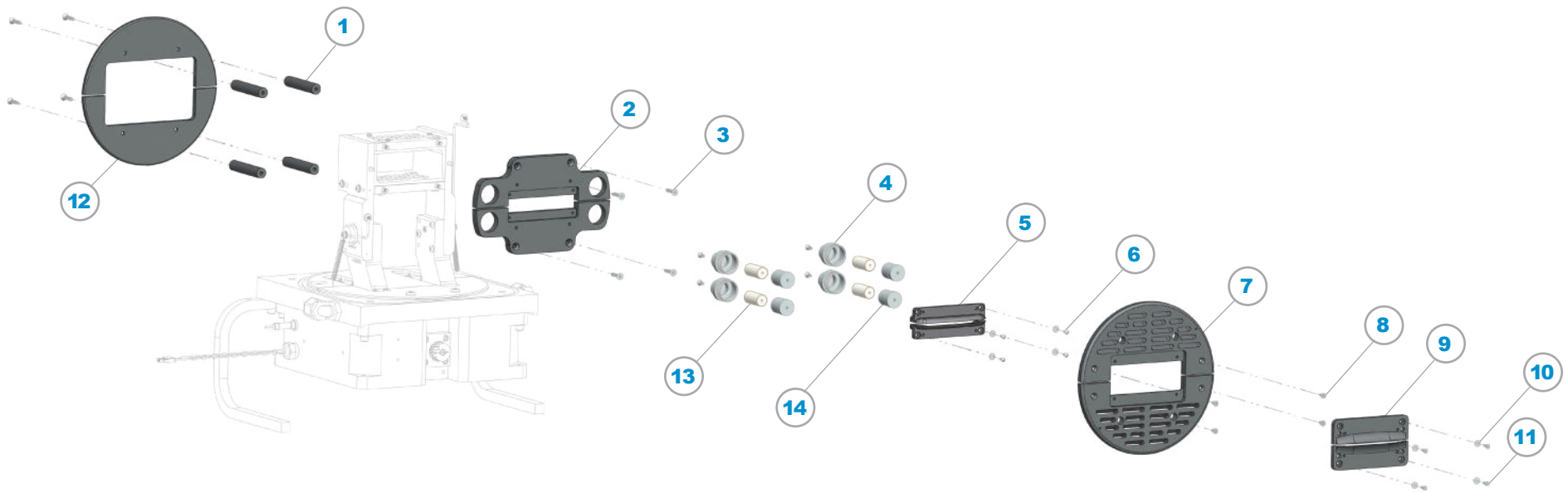
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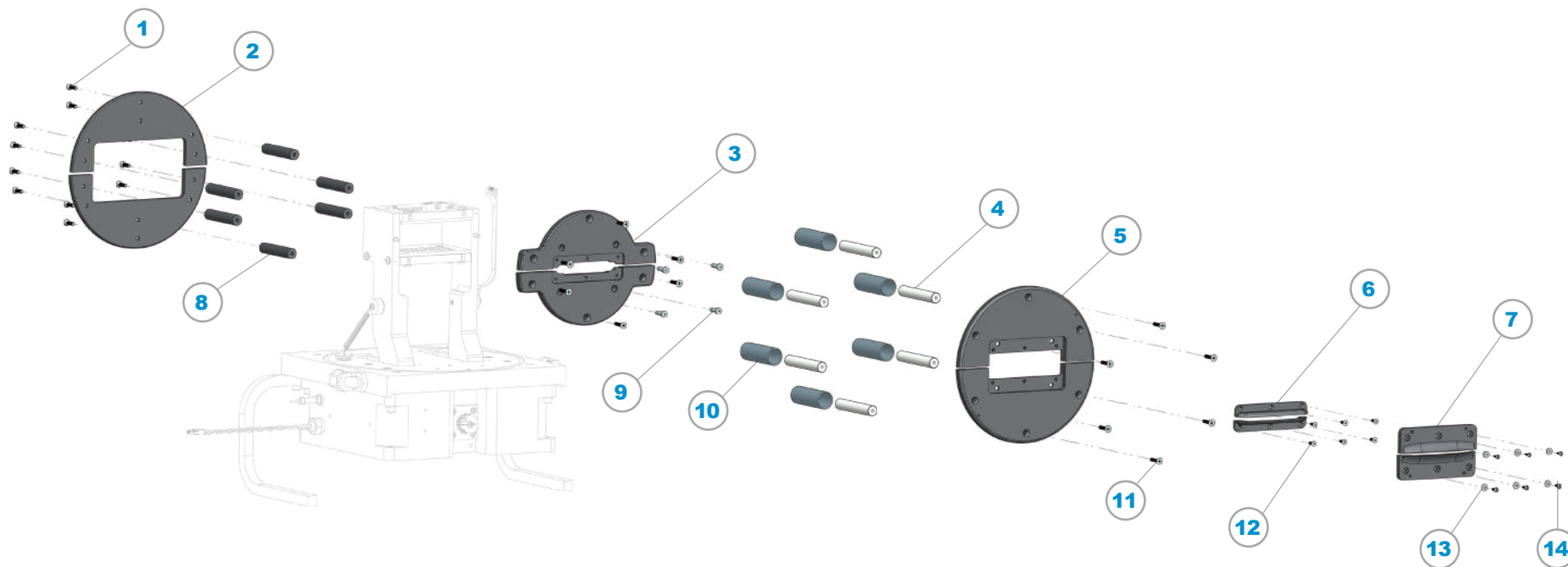
G-30-120GSD Rev 05

## 99262V34A\* Ground and Suppression Components



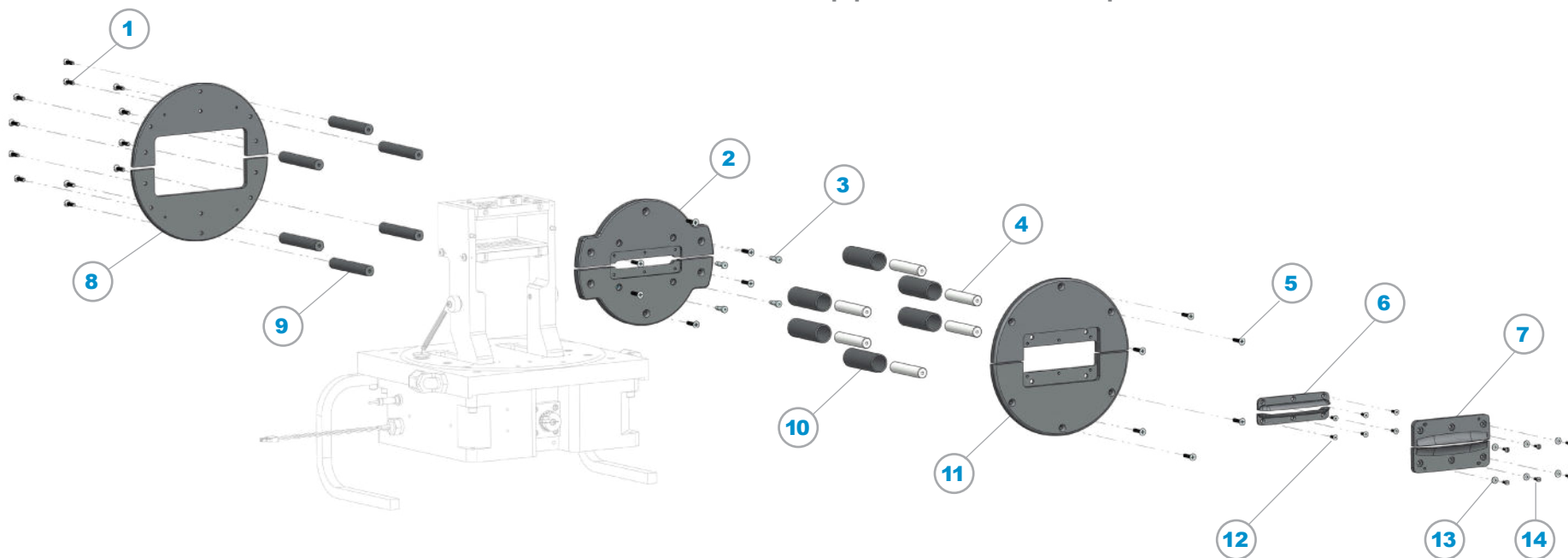
| ITEM | P/N    | DESCRIPTION                    | QTY |
|------|--------|--------------------------------|-----|
| 1    | 99455  | Spacer, Field Ring             | 4   |
| 2    | 99437C | Ground Plate                   | 2   |
| 3    | 82737  | 8-32 x 3/4", SS, FHPS, Vented  | 8   |
| 4    | 99925  | Outer Insulator Cup            | 4   |
| 5    | 99238C | Ground Aperture                | 2   |
| 6    | 8B581  | 4-40 x 5/16", SS, PPHS         | 4   |
| 7    | 99436D | Suppression Plate, Enhanced    | 2   |
| 8    | 8A368  | 6-32 x 5/16", SS, FHPS, Vented | 8   |
| 9    | 99432C | Suppression Aperture           | 2   |
| 10   | 82456  | #4 x .028, SS, Washer, Flat    | 8   |
| 11   | 83630  | 4-40 x 1/4", SS, PPHS          | 4   |
| 12   | 99537A | End Plate                      | 2   |
| 13   | 8B265A | Suppression Insulator          | 4   |
| 14   | 99926  | Inner Insulator Cup            | 6   |

## 99262V34 Ground and Suppression Components



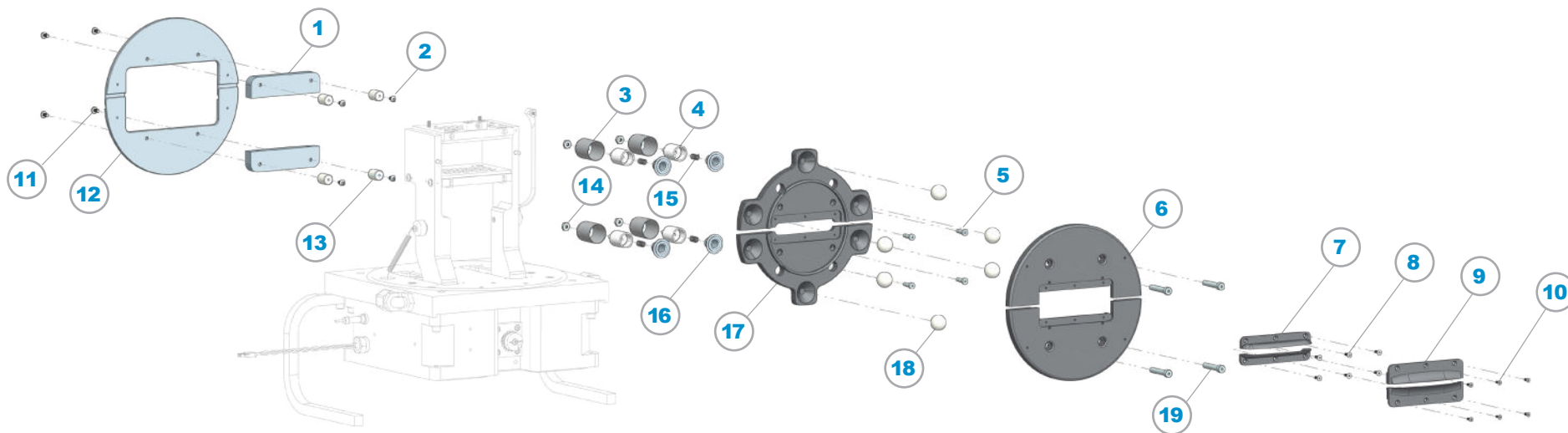
| ITEM | P/N     | DESCRIPTION                   | QTY |
|------|---------|-------------------------------|-----|
| 1    | 82735   | 8-32 x 5/8", SS, FHSS, Vented | 12  |
| 2    | 99537   | Field Ring                    | 2   |
| 3    | 99437A  | Ground Plate                  | 2   |
| 4    | 99456   | Suppression Insulator         | 6   |
| 5    | 99436A  | Suppression Plate             | 2   |
| 6    | 99238A  | Ground Aperture               | 2   |
| 7    | 99432   | Suppression Aperture          | 2   |
| 8    | 99455   | Spacer, Field Ring            | 6   |
| 9    | 99262-3 | Shoulder Screw, Modified      | 4   |
| 10   | 99433A  | Insulator Shield              | 6   |
| 11   | 82737   | 8-32 x 3/4", SS, FHPS, Vented | 12  |
| 12   | 82580   | 4-40 x 3/8", SS, FHSS         | 6   |
| 13   | 82456   | #4 x .028, SS, Washer, Flat   | 6   |
| 14   | 83628   | 4-40 x 5/16", SS, SPHS        | 6   |

## 99262V33 Ground and Suppression Components

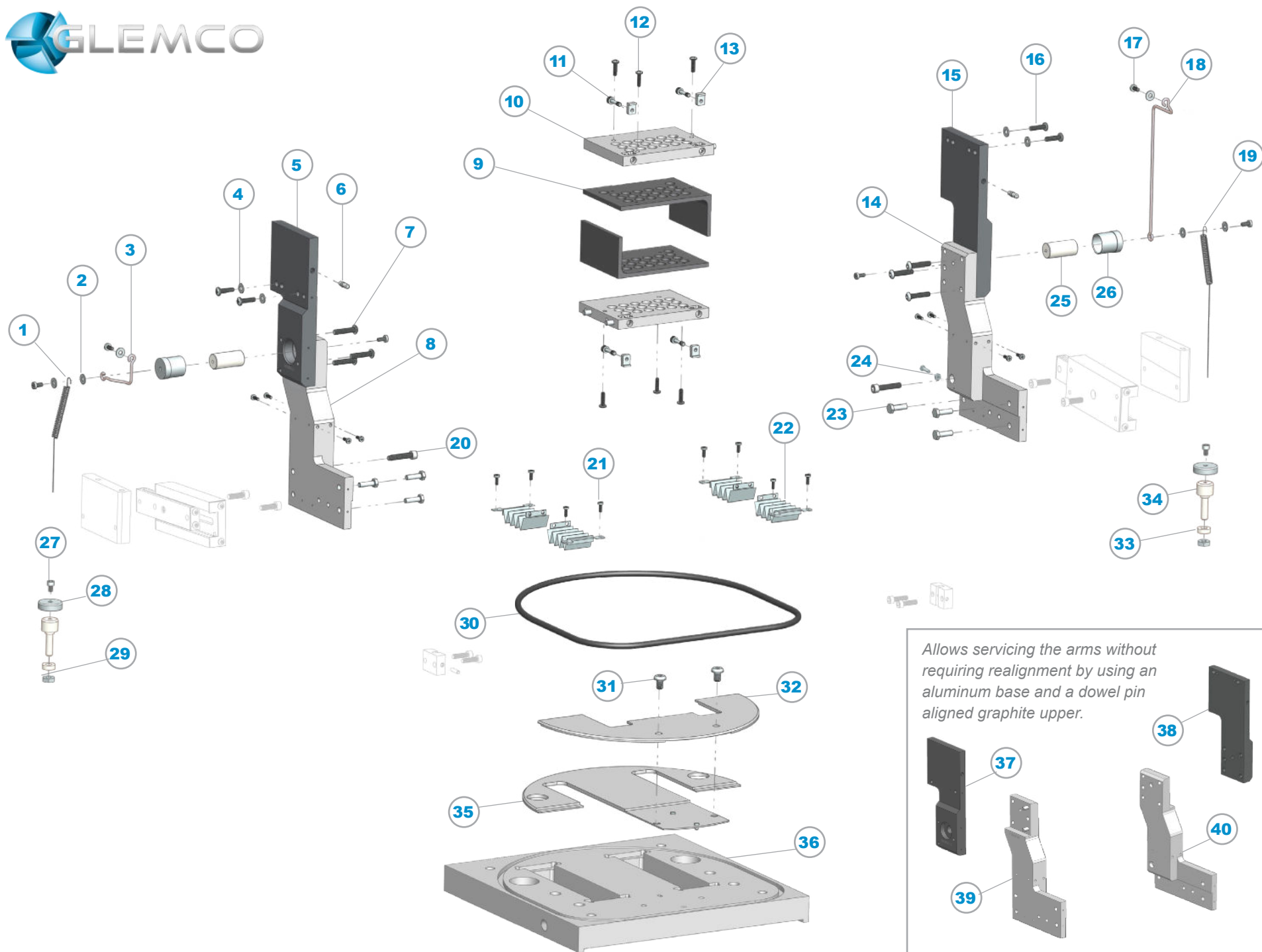


| ITEM | P/N     | DESCRIPTION                   | QTY |
|------|---------|-------------------------------|-----|
| 1    | 82735   | 8-32 x 5/8", SS, FHSS, Vented | 12  |
| 2    | 99437   | Ground Plate                  | 2   |
| 3    | 99262-3 | Shoulder Screw, Modified      | 4   |
| 4    | 99431   | Suppression Insulator         | 6   |
| 5    | 82737   | 8-32 x 3/4", SS, FHPS, Vented | 12  |
| 6    | 99238A  | Ground Aperture               | 2   |
| 7    | 99432   | Suppression Aperture          | 2   |
| 8    | 99538   | Field Ring                    | 2   |
| 9    | 99434   | Spacer, Field Ring            | 6   |
| 10   | 99433   | Insulator Shield              | 6   |
| 11   | 99436   | Suppression Plate             | 2   |
| 12   | 82580   | 4-40 x 3/8", SS, FHSS         | 6   |
| 13   | 82456   | #4 x .028, SS, Washer, Flat   | 6   |
| 14   | 83628   | 4-40 x 5/16", SS, SPHS        | 6   |

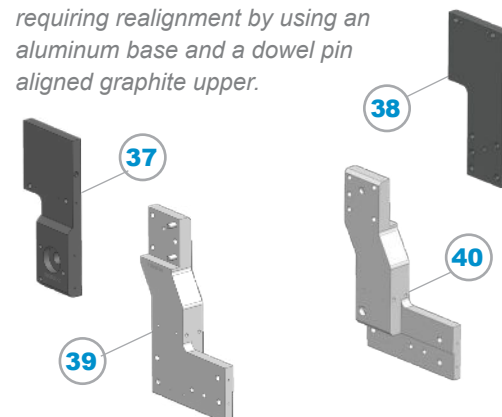
## 99262V32 Ground and Suppression Components



| ITEM | P/N      | DESCRIPTION                     | QTY |
|------|----------|---------------------------------|-----|
| 1    | 99262-11 | Mounting Block, Field Ring      | 2   |
| 2    | 82630    | 8-32 x 1/4", SS, BHSS           | 4   |
| 3    | 99357    | Insulator Cup                   | 4   |
| 4    | 99352    | Suppression Insulator           | 4   |
| 5    | 99262-3  | Shoulder Screw, Modified        | 4   |
| 6    | 99228A   | Ground Aperture                 | 2   |
| 7    | 99238A   | Ground Aperture                 | 2   |
| 8    | 82580    | 4-40 x 3/8", SS, FHSS           | 6   |
| 9    | 99225A   | Suppression Aperture            | 2   |
| 10   | 8A012    | 4-40 x 5/16", SS, FHPS          | 6   |
| 11   | 8B025    | 8-32 x 5/16", SS, PHSS          | 4   |
| 12   | 99262-4  | Field Ring                      | 2   |
| 13   | 99052    | 1/2"Ø x 5/8", Ceramic, Standoff | 4   |
| 14   | 82299    | 10-32 x 3/8", SS, Hex Nut       | 4   |
| 15   | 99172    | Compression Spring, .50", SS    | 4   |
| 16   | 99355    | Insulator Shield                | 4   |
| 17   | 99258A   | Ground Plate                    | 2   |
| 18   | 99257    | Ceramic Ball                    | 6   |
| 19   | 99354    | Shoulder Screw, Modified        | 4   |



Allows servicing the arms without requiring realignment by using an aluminum base and a dowel pin aligned graphite upper.





## 99262V34A\* Arms and Mounting Plate Components

| ITEM | P/N         | DESCRIPTION                          | QTY |
|------|-------------|--------------------------------------|-----|
| 1    | 99469       | Extension Spring, Short              | 1   |
| 2    | 82470       | #6 x .025, SS, Washer, Flat          | 6   |
| 3    | 99929       | Buss Bar, Short                      | 1   |
| 4    | 82474       | #8 x .032, SS, Washer, Flat          | 4   |
| 5    | 99255C-2    | Arm Half, Lower, Graphite            | 1   |
| 6    | 99268       | Alignment Pin                        | 2   |
| 7    | 82646       | 10-32 x 7/8", SS, BHSS               | 6   |
| 8    | 99255C-1    | Arm Half, Lower, Aluminum            | 1   |
| 9    | 99262-5A    | Liner, Modified                      | 2   |
| 10   | 99755A      | Electrode Mounting Plate, Mod        | 2   |
| 11   | 8B463       | 8-32 x 5/8", SS, Captive Panel Screw | 4   |
| 12   | 83634       | 6-32 x 1/2", SS, PPHS                | 6   |
| 13   | 99186       | Captive Nut                          | 4   |
| 14   | 99254C-1    | Arm Half, Upper, Aluminum            | 1   |
| 15   | 99254C-2    | Arm Half, Upper, Graphite            | 1   |
| 16   | 8B578       | 8-32 x 5/8", SS, PPHS                | 4   |
| 17   | 8B580       | 6-32 x 5/16", SS, PPHS, Vented       | 6   |
| 18   | 99930       | Buss Bar, Long                       | 1   |
| 19   | 99470       | Extension Spring, Long               | 1   |
| 20   | 82442       | 10-32 x 1", SS, SHCS                 | 2   |
| 21   | 8B581       | 4-40 x 5/16", SS, PPHS               | 16  |
| 22   | 99262-13A   | Bellows Shield                       | 4   |
| 23   | 82875       | 10-32 x 5/8", SS, Hex Head Screw     | 7   |
| 24   | 82299       | 10-32 x 3/8", SS, Hex Nut            | 1   |
| 25   | 8B265A      | Suppression Insulator                | 2   |
| 26   | 99926       | Inner Insulator Cup                  | 2   |
| 27   | 8B237       | 8-32 x 1/4", SS, SHCS, Vented        | 2   |
| 28   | 55067A      | Insulator Shield                     | 2   |
| 29   | 8A235       | 1/4"-20 x 7/16", SS, Jam, Hex Nut    | 2   |
| 30   | 83277       | -377, Buna, O-Ring                   | 1   |
| 31   | 8B356       | 1/4-20 x 3/8", SS, BHSS, Vented      | 2   |
| 32   | 99912-2     | Shield, Base Flange, B               | 1   |
| 33   | 51110       | Insulator Nut                        | 2   |
| 34   | 99353B      | Insulator, Suppression Spring        | 2   |
| 35   | 99912-1     | Shield, Base Flange, A               | 1   |
| 36   | 99262V34A-1 | Base Flange, V34A                    | 1   |
| 37   | 99255D-2    | Arm Half, Lower, Graphite            |     |
| 38   | 99254D-2    | Arm Half, Upper, Graphite            |     |
| 39   | 99255D-1    | Arm Half, Lower, Aluminum            |     |
| 40   | 99254D-1    | Arm Half, Upper, Aluminum            |     |



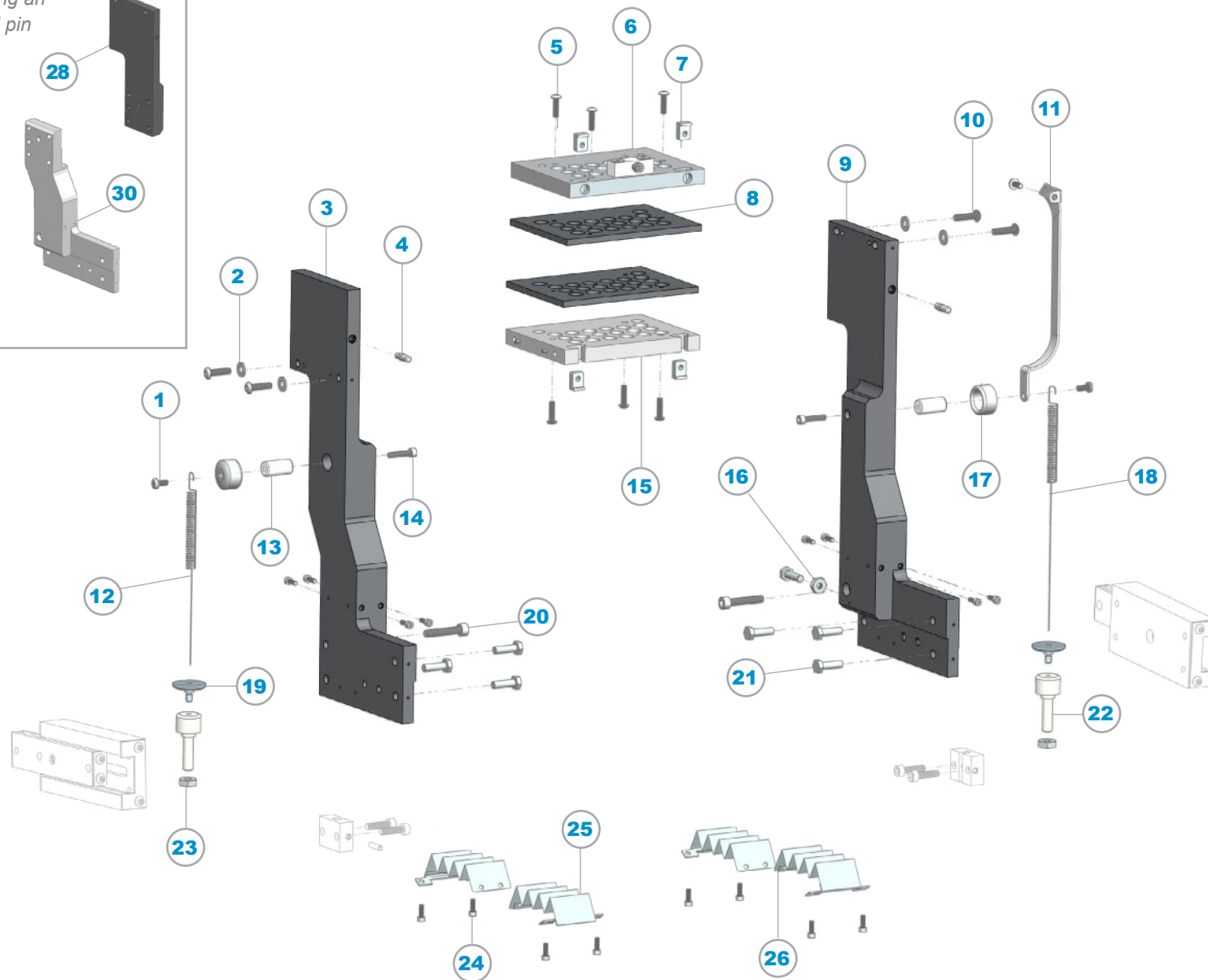
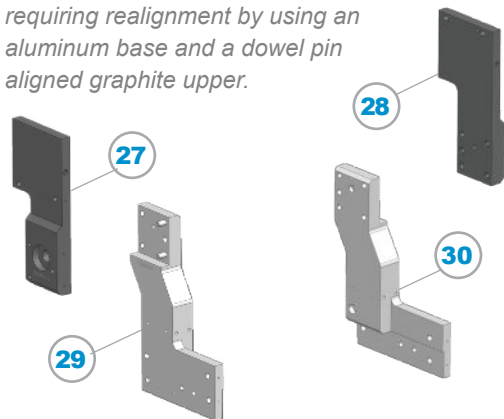


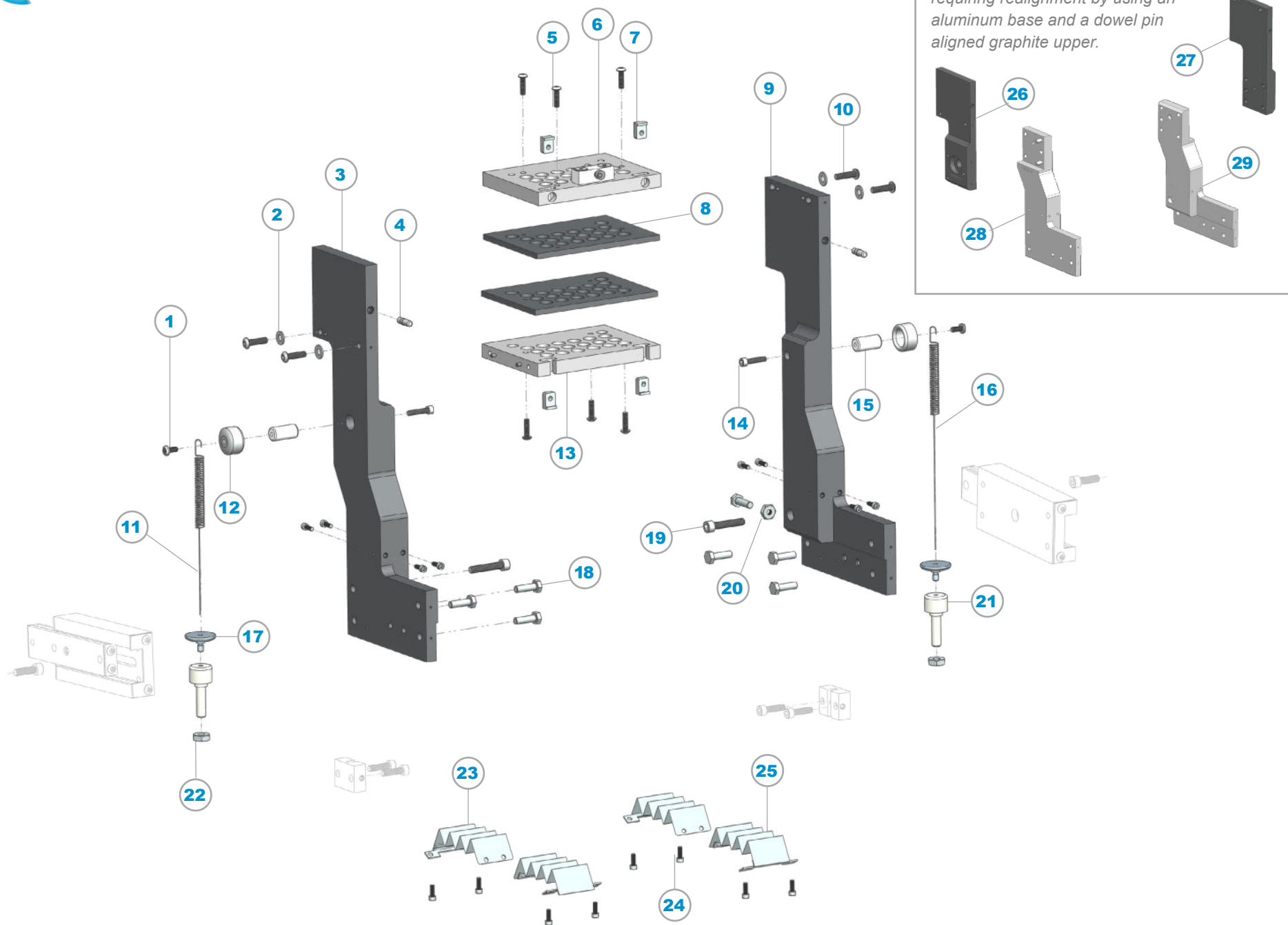
## 99262V34 Arms and Mounting Plate Components

| ITEM | P/N       | DESCRIPTION                       | QTY |
|------|-----------|-----------------------------------|-----|
| 1    | 8A060     | 6-32 x 5/16", SS, PPHS            | 3   |
| 2    | 82474     | #8 x .032, SS, Washer, Flat       | 4   |
| 3    | 99255AV   | Bottom Arm, VIG                   | 1   |
| 4    | 99268     | Alignment Pin                     | 2   |
| 5    | 82629     | 6-32 x 1/2", SS, BHSS             | 6   |
| 6    | 99757     | Electrode Mounting Plate, Top     | 1   |
| 7    | 99186     | Captive Nut                       | 4   |
| 8    | 99262-5   | Liner                             | 2   |
| 9    | 99254AV   | Top Arm, VIG                      | 1   |
| 10   | 82634     | 8-32 x 5/8", SS, BHSS             | 4   |
| 11   | 99472     | Suppression Strap, Aluminum       | 1   |
| 12   | 99469     | Extension Spring, Short           | 1   |
| 13   | 30680     | 6-32 x 3/8" Ø x 3/4", Standoff    | 2   |
| 14   | 82420     | 6-32 x 5/8", SS, SHCS             | 2   |
| 15   | 99756     | Electrode Mounting Plate, Bottom  | 1   |
| 16   | 82299     | 10-32 x 3/8", SS, Hex Nut         | 1   |
| 17   | 99435A    | Insulator, Shield Cup             | 2   |
| 18   | 99470     | Extension Spring, Long            | 1   |
| 19   | 99468     | Feed-Thru Shield, Aluminum        | 2   |
| 20   | 82442     | 10-32 x 1", SS, SHCS              | 2   |
| 21   | 82875     | 10-32 x 5/8", SS, Hex Head Screw  | 7   |
| 22   | 99353B    | Insulator, Suppression Spring     | 2   |
| 23   | 8A235     | 1/4"-20 x 7/16", SS, Jam, Hex Nut | 2   |
| 24   | 84228     | 4-40 x 5/16", SS, SHCS            | 16  |
| 25   | 99262-13L | Bellows Shield, Left              | 2   |
| 26   | 99262-13R | Bellows Shield, Right             | 2   |
| 27   | 99255D-2  | Arm Half, Lower, Graphite         |     |
| 28   | 99254D-2  | Arm Half, Upper, Graphite         |     |
| 29   | 99255D-1  | Arm Half, Lower, Aluminum         |     |
| 30   | 99254D-1  | Arm Half, Upper, Aluminum         |     |



Allows servicing the arms without requiring realignment by using an aluminum base and a dowel pin aligned graphite upper.







## 99262V33 Arms and Mounting Plate Components

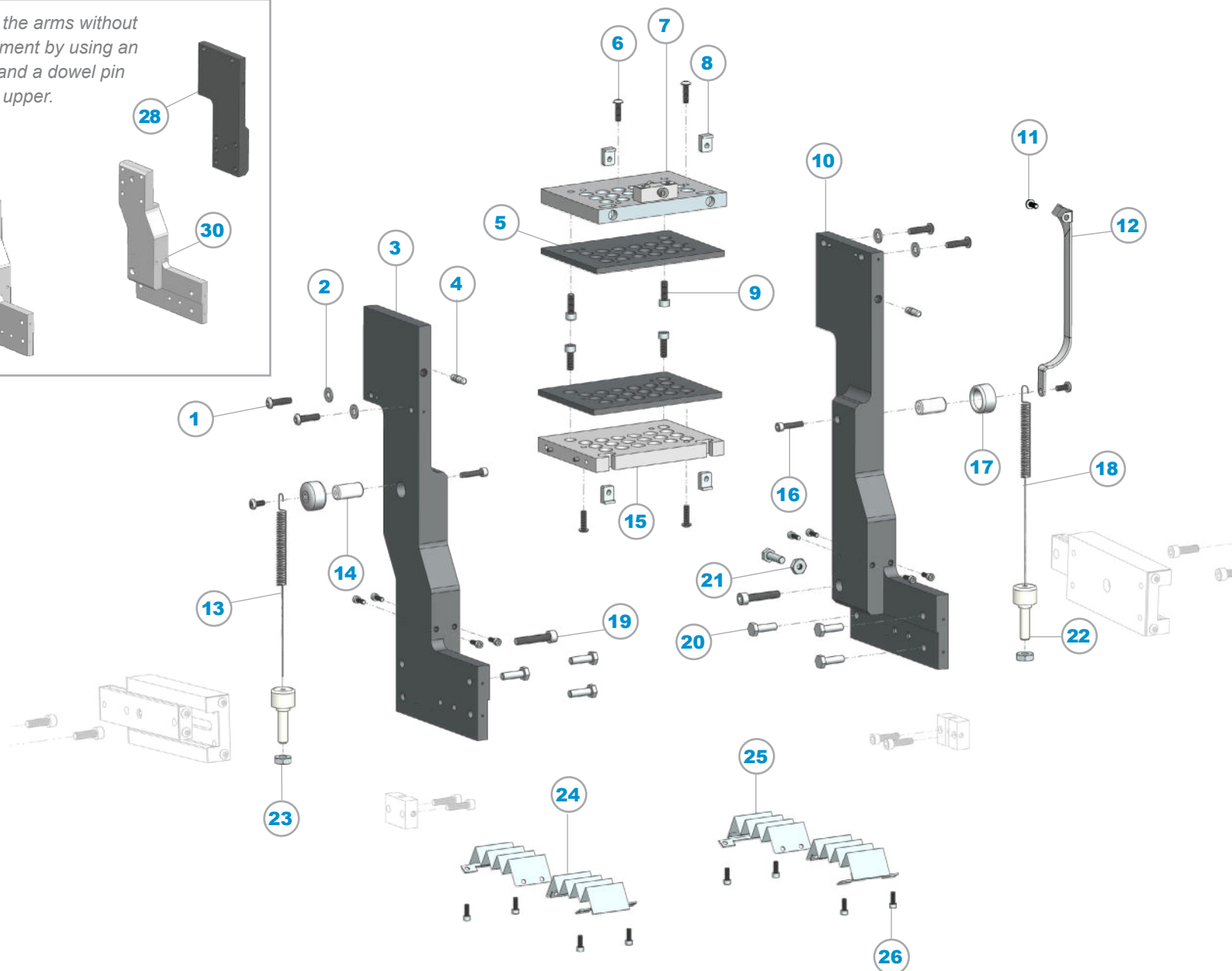
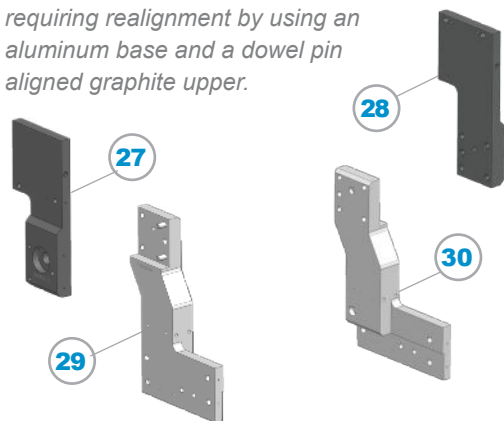
| ITEM | P/N       | DESCRIPTION                       | QTY |
|------|-----------|-----------------------------------|-----|
| 1    | 8A060     | 6-32 x 5/16", SS, PPHS            | 2   |
| 2    | 82474     | #8 x .032, SS, Washer, Flat       | 4   |
| 3    | 99255AV   | Bottom Arm, VIG                   | 1   |
| 4    | 99268     | Alignment Pin                     | 2   |
| 5    | 82629     | 6-32 x 1/2", SS, BHSS             | 6   |
| 6    | 99757     | Electrode Mounting Plate, Top     | 1   |
| 7    | 99186     | Captive Nut                       | 4   |
| 8    | 99262-5   | Liner                             | 2   |
| 9    | 99254AV   | Top Arm, VIG                      | 1   |
| 10   | 82634     | 8-32 x 5/8", SS, BHSS             | 4   |
| 11   | 99469     | Extension Spring, Short           | 1   |
| 12   | 99435A    | Insulator, Shield Cup             | 2   |
| 13   | 99756     | Electrode Mounting Plate, Bottom  | 1   |
| 14   | 82420     | 6-32 x 5/8", SS, SHCS             | 2   |
| 15   | 30680     | 6-32 x 3/8" Ø x 3/4", Standoff    | 2   |
| 16   | 99470     | Extension Spring, Long            | 1   |
| 17   | 99468     | Feed-Thru Shield, Aluminum        | 2   |
| 18   | 82875     | 10-32 x 5/8", SS, Hex Head Screw  | 7   |
| 19   | 82442     | 10-32 x 1", SS, SHCS              | 2   |
| 20   | 82299     | 10-32 x 3/8", SS, Hex Nut         | 1   |
| 21   | 99353B    | Insulator, Suppression Spring     | 2   |
| 22   | 8A235     | 1/4"-20 x 7/16", SS, Jam, Hex Nut | 2   |
| 23   | 99262-13L | Bellows Shield, Left              | 2   |
| 24   | 84228     | 4-40 x 5/16", SS, SHCS            | 16  |
| 25   | 99262-13R | Bellows Shield, Right             | 2   |
| 26   | 99255D-2  | Arm Half, Lower, Graphite         |     |
| 27   | 99254D-2  | Arm Half, Upper, Graphite         |     |
| 28   | 99255D-1  | Arm Half, Lower, Aluminum         |     |
| 29   | 99254D-1  | Arm Half, Upper, Aluminum         |     |

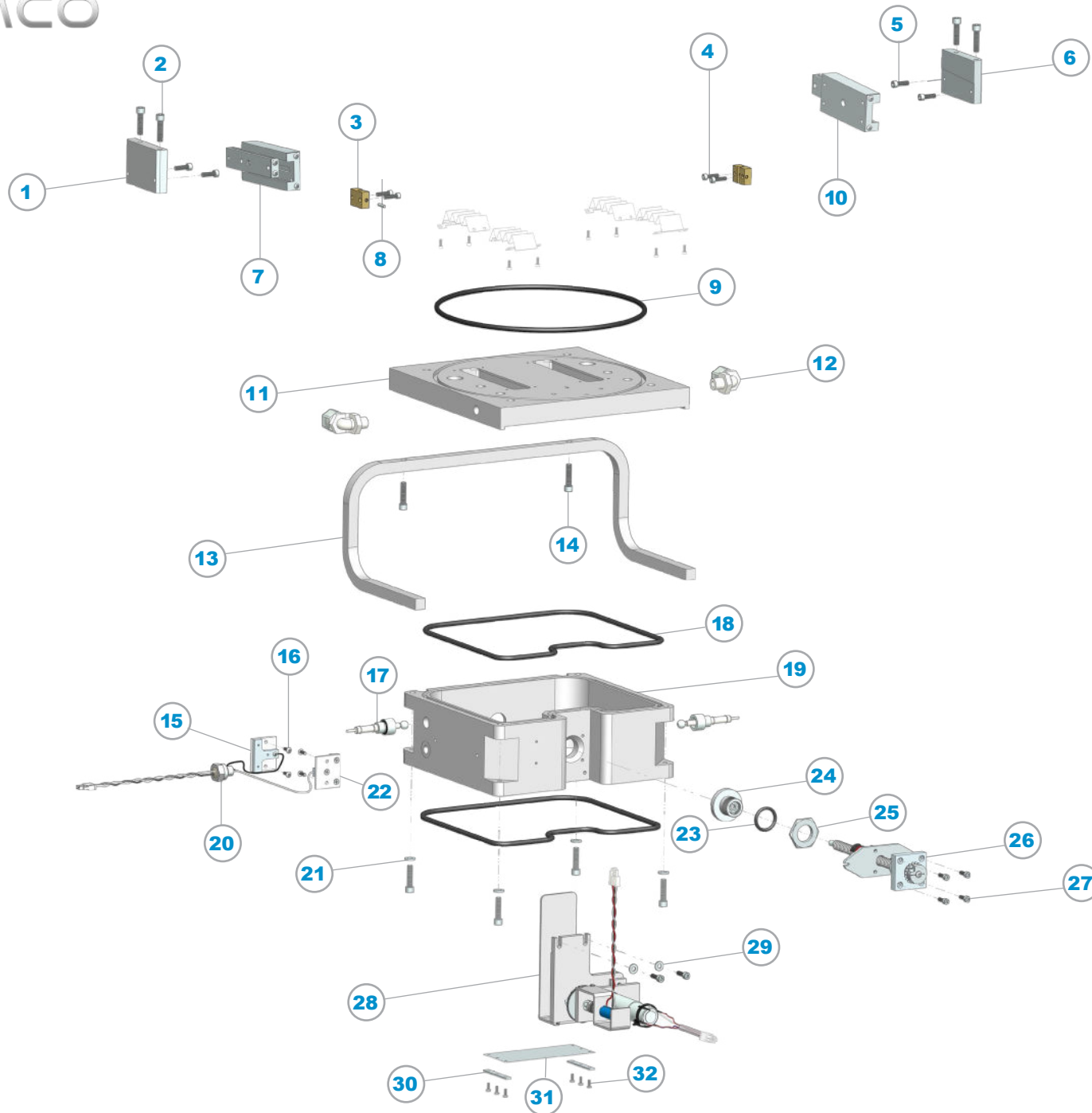


## 99262V32 Arms and Mounting Plate Components

| ITEM | P/N       | DESCRIPTION                       | QTY |
|------|-----------|-----------------------------------|-----|
| 1    | 82634     | 8-32 x 5/8", SS, BHSS             | 4   |
| 2    | 82474     | #8 x .032, SS, Washer, Flat       | 4   |
| 3    | 99255AV   | Bottom Arm, VIG                   | 1   |
| 4    | 99268     | Alignment Pin                     | 2   |
| 5    | 99262-5   | Liner                             | 2   |
| 6    | 82629     | 6-32 x 1/2", SS, BHSS             | 4   |
| 7    | 99757     | Electrode Mounting Plate, Top     | 1   |
| 8    | 99186     | Captive Nut                       | 4   |
| 9    | 82395     | 8-32 x 1/2", SS, SHCS             | 4   |
| 10   | 99254AV   | Top Arm, VIG                      | 1   |
| 11   | 8A060     | 6-32 x 5/16", SS, PPHS            | 3   |
| 12   | 99472     | Suppression Strap, Aluminum       | 1   |
| 13   | 99469     | Extension Spring, Short           | 1   |
| 14   | 30680     | 6-32 x 3/8" Ø x 3/4", Standoff    | 2   |
| 15   | 99756     | Electrode Mounting Plate, Bottom  | 1   |
| 16   | 82420     | 6-32 x 5/8", SS, SHCS             | 2   |
| 17   | 99435A    | Insulator, Shield Cup             | 2   |
| 18   | 99470     | Extension Spring, Long            | 1   |
| 19   | 82442     | 10-32 x 1", SS, SHCS              | 2   |
| 20   | 82875     | 10-32 x 5/8", SS, Hex Head Screw  | 7   |
| 21   | 82299     | 10-32 x 3/8", SS, Hex Nut         | 1   |
| 22   | 99353B    | Insulator, Suppression Spring     | 2   |
| 23   | 8A235     | 1/4"-20 x 7/16", SS, Jam, Hex Nut | 2   |
| 24   | 99262-13R | Bellows Shield, Right             | 2   |
| 25   | 99262-13L | Bellows Shield, Left              | 2   |
| 26   | 84228     | 4-40 x 5/16", SS, SHCS            | 16  |
| 27   | 99255D-2  | Arm Half, Lower, Graphite         |     |
| 28   | 99254D-2  | Arm Half, Upper, Graphite         |     |
| 29   | 99255D-1  | Arm Half, Lower, Aluminum         |     |
| 30   | 99254D-1  | Arm Half, Upper, Aluminum         |     |

Allows servicing the arms without requiring realignment by using an aluminum base and a dowel pin aligned graphite upper.





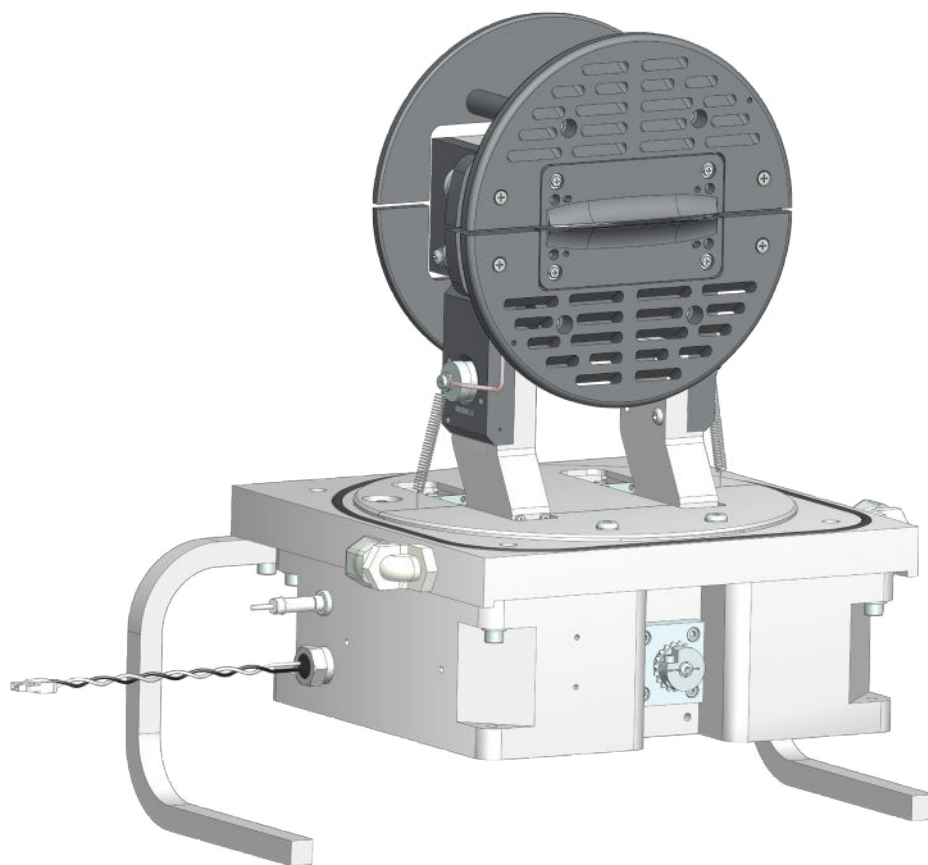


## Standard Electrode Housing Components

| ITEM | P/N        | DESCRIPTION                         | QTY |
|------|------------|-------------------------------------|-----|
| 1    | 99262-12   | Mounting Plate 1                    | 1   |
| 2    | 82748      | 1/4"-20 x 1", SS, SHCS, Vented      | 4   |
| 3    | 99262-9    | Mounting Block                      | 2   |
| 4    | 82430      | 8-32 x 5/8", SS, SHCS               | 4   |
| 5    | 82436      | 10-32 x 5/8", SS, SHCS              | 6   |
| 6    | 99262-17   | Mounting Plate 2                    | 1   |
| 7    | 99270      | Linear Bearing, Upper               | 1   |
| 8    | 82234      | 1/8" Ø x 1/2", SS, Dowel Pin        | 1   |
| 9    | 83293      | -374, Buna, O-Ring                  | 1   |
| 10   | 99270A     | Linear Bearing, Lower               | 1   |
| 11   | 99262V34-1 | Base Flange, V32, 33, 34            | 1   |
| 12   | 82547      | Male Elbow Fitting, White Polypro   | 2   |
| 13   | 99262-21   | Handle                              | 1   |
| 14   | 82446      | 1/4"-20 x 1" SS, SHCS               | 6   |
| 15   | 99262-20   | Sensor Plate Assembly, B            | 1   |
| 16   | 8A257      | 6-32 x 3/8", SS, BHSS, Vented       | 4   |
| 17   | 99546      | Feed-Thru, 10Kv                     | 2   |
| 18   | 83277      | -377, Buna, O-Ring                  | 2   |
| 19   | 99262-2    | Base Housing                        | 1   |
| 20   | 99265      | Wire Harness, Readback              | 1   |
| 21   | 8A820      | .275 ID x .500 OD, SS, Washer, Flat | 4   |
| 22   | 99262-19   | Sensor Plate Assembly, A            | 1   |
| 23   | 83112V     | -212, Viton, O-Ring                 | 1   |
| 24   | 99267-4    | Bearing Assembly, Lead Screw        | 1   |
| 25   | 99267-5    | Panel Nut, Lead Screw               | 1   |
| 26   | 99267      | Lead Screw Assembly                 | 1   |
| 27   | 82395      | 8-32 x 1/2", SS, SHCS               | 4   |
| 28   | 99399      | Motor Drive Assembly                | 1   |
| 29   | 82478      | #10 x .032, SS, Washer, Flat        | 2   |
| 30   | 99262-7    | Brace Clamp                         | 2   |
| 31   | 99262-6    | Brace                               | 1   |
| 32   | 83628      | 4-40 x 5/16", SS, SPHS              | 6   |



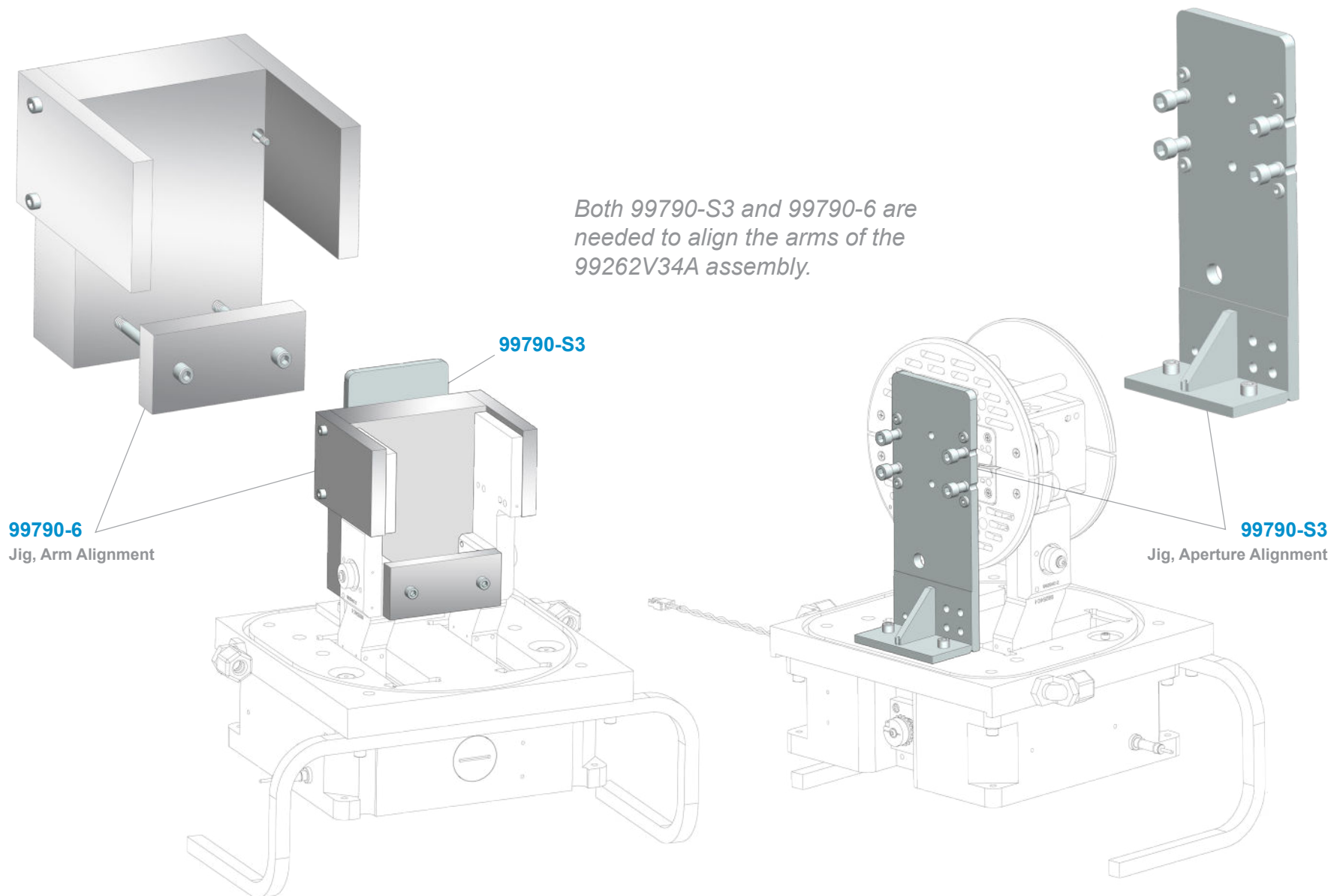
## 99262V34A\* Electrode Assembly, Precision
































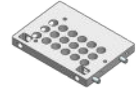





### Design Benefits:

- *All graphite is high density, high hardness graphite (less wear, longer life).*
- *Precise alignment of suppression and ground apertures is achieved with a purpose designed fixture.*
- *Longer insulators and optically dense shields improve isolation of head and suppression feed.*
- *Perforation of the head improves pumping and distributes vacuum pressure is more evenly between the ground and suppression plates.*
- *Redesigned base plate and shields reduce vacuum leaks and provide shielding to protect bearings from process coating.*
- *Allows servicing the arms without requiring realignment by using an aluminum base and a dowel pin aligned graphite upper.*

## 99262V34A\* Alignment Fixtures



## K99262V34A Upgrade Kit

|   |   |  |   |   |  |
|---|---|--|---|---|--|
| <b>55067</b><br>Outer<br>Shield Cup<br><br>2 pcs.                | <b>82456</b><br>#4 x .028, SS,<br>Washer, Flat<br><br>8 pcs.             | <b>82470</b><br>#6 x .025, SS,<br>Washer, Flat<br><br>6 pcs.    | <b>82474</b><br>#8 x .032, SS,<br>Washer, Flat<br><br>4 pcs.         | <b>82627</b><br>6-32 x 3/8"<br>SS, BHSS<br><br>2 pcs.  | <b>82628</b><br>6-32 x 5/8"<br>SS, BHSS<br><br>10 pcs.          |
| <b>82629</b><br>6-32 x 1/2"<br>SS, BHSS<br><br>6 pcs.            | <b>82634</b><br>8-32 x 5/8"<br>SS, BHSS<br><br>4 pcs.                    | <b>82646</b><br>10-32 x 7/8"<br>SS, BHSS<br><br>6 pcs.         | <b>82735</b><br>8-32 x 5/8", SS,<br>FHSS, Vented<br><br>8 pcs.       | <b>83277</b><br>-377, Buna,<br>O-Ring<br><br>1 pc.   | <b>84228</b><br>4-40 x 5/16"<br>SS, SHCS<br><br>16 pcs.         |
| <b>8A191</b><br>4-40 x 1/4"<br>SS, BHSS<br><br>4 pcs.            | <b>8A238</b><br>6-32 x 5/16"<br>SS, FHSS<br><br>8 pcs.                   | <b>8A327</b><br>6-32 x 5/16", SS,<br>FHSS, Vented<br><br>8 pcs. | <b>8A444</b><br>6-32 x 5/16", SS,<br>BHSS, Vented<br><br>4 pcs.      | <b>8B237</b><br>8-32 x 1/4", SS,<br>SHCS, Vented<br><br>2 pcs.   | <b>8B265A</b><br>Suppression<br>Insulator<br><br>6 pcs.         |
| <b>8B356</b><br>1/4-20 x 3/8", SS,<br>BHSS, Vented<br><br>2 pcs. | <b>8B463</b><br>8-32 x 5/8", SS,<br>Captive Panel<br>Screw<br><br>4 pcs. | <b>99186</b><br>Captive<br>Nut<br><br>4 pcs.                    | <b>99238C</b><br>Ground<br>Aperture<br><br>2 pcs.                    | <b>99254C-1</b><br>Arm Half,<br>Upper,<br>Aluminum<br><br>1 pc.  | <b>99254C-2</b><br>Arm Half,<br>Upper,<br>Graphite<br><br>1 pc. |
| <b>99255C-1</b><br>Arm Half,<br>Lower,<br>Aluminum<br><br>1 pc.  | <b>99255C-2</b><br>Arm Half,<br>Lower,<br>Graphite<br><br>1 pc.          | <b>99262-5A</b><br>Liner,<br>Modified<br><br>2 pcs.             | <b>99262-13A</b><br>Bellows<br>Shield<br><br>4 pcs.                  | <b>99262V34A-1</b><br>Base<br>Flange<br><br>1 pc.  | <b>99265</b><br>Wire Harness,<br>Readback<br><br>1 pc.          |
| <b>99268</b><br>Alignment<br>Pin<br><br>2 pcs.                 | <b>99353B</b><br>Insulator,<br>Suppression<br>Spring<br><br>2 pcs.     | <b>99432C</b><br>Suppression<br>Aperture<br><br>1 pc.         | <b>99436D</b><br>Suppression<br>Plate,<br>Enhanced<br><br>2 pcs.   | <b>99437C</b><br>Ground<br>Plate<br><br>2 pcs.   | <b>99455</b><br>Spacer,<br>Field Ring<br><br>4 pcs.           |
| <b>99469</b><br>Extension<br>Spring, Short<br><br>1 pc.        | <b>99470</b><br>Extension<br>Spring, Long<br><br>1 pc.                 | <b>99537A</b><br>End<br>Plate<br><br>2 pcs.                   | <b>99755A</b><br>Electrode<br>Mounting<br>Plate, Mod<br><br>2 pcs. | <b>99912-1</b><br>Shield,<br>Base Flange,<br>A<br><br>1 pc.  | <b>99912-2</b><br>Shield,<br>Base Flange,<br>B<br><br>1 pc.   |
| <b>99925</b><br>Outer<br>Insulator Cup<br><br>4 pcs.           | <b>99926</b><br>Inner<br>Insulator Cup<br><br>6 pcs.                   | <b>99929</b><br>Buss Bar,<br>Short<br><br>1 pc.               | <b>99930</b><br>Buss Bar,<br>Long<br><br>1 pc.                     | Kit contains all items required to upgrade existing electrode to a precision assembly. If interested in the upgrade, more detailed technical information can be provided by contacting us at 800-621-9598 or <a href="mailto:sales@glemco.com">sales@glemco.com</a> . |  |