

# Fluid Automation F4 Series

335029H

EN

For metering, mixing, and dispensing multiple component silicone materials.  
For professional use only.

Not approved for use in explosive atmospheres or hazardous locations.

For models:

**F4-5**

**F4-55**

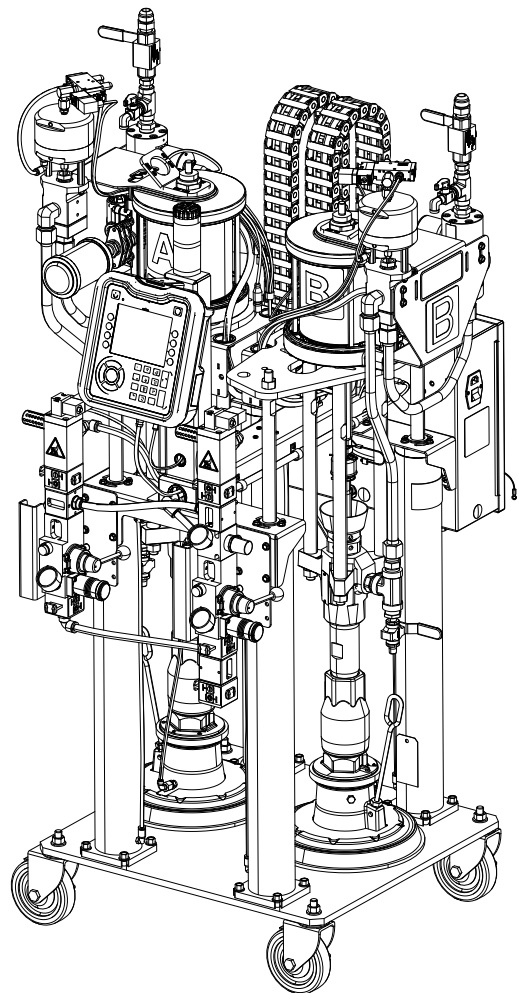
**F4-55-5**

Refer to the Fluid Automation F4 Series Setup-Operation manual 335028 for maximum working pressure and model information.



## **Important Safety Instructions**

Read all warnings and instructions in the Fluid Automation F4 Series Setup-Operation manual 335028. Save all instructions.



# Contents

|                                                         |           |
|---------------------------------------------------------|-----------|
| <b>Contents</b> .....                                   | <b>2</b>  |
| <b>Related Manuals</b> .....                            | <b>3</b>  |
| <b>F4-5 Base Model</b> .....                            | <b>4</b>  |
| F4-5 System - 24X160 .....                              | 4         |
| F4-5 Base/Ram - 24X281 .....                            | 8         |
| F4-5 Ram Air Cylinder - 24W784 .....                    | 10        |
| Air-Line Bracket Assembly - 25A073 .....                | 12        |
| F4-5 Platen - 25A206 .....                              | 14        |
| <b>F4-55 Base Models</b> .....                          | <b>16</b> |
| F4-55 System - 24X167 and 24X169 .....                  | 16        |
| F4-55 Platen - 25A230 .....                             | 21        |
| F4-55-5 System - 24X166 and 24X168 .....                | 22        |
| F4-55 and 55-5 Base/Ram - 24X185 .....                  | 24        |
| F4-55 and 55-5 Ram Air Cylinder - 24X175 ...            | 26        |
| F4-55 and 55-5 Air Line Bracket Assembly - 25A069 ..... | 28        |
| <b>Common Parts</b> .....                               | <b>30</b> |
| Main Integrated Air Control - 24X187 .....              | 30        |
| Secondary Integrated Air Control - 24X286 ...           | 32        |
| A and B Pump Assemblies .....                           | 34        |
| Electronic Enclosure (Control Module) - 24X186          | 37        |
| Hoses .....                                             | 41        |
| <b>California Proposition 65</b> .....                  | <b>41</b> |
| <b>Graco Standard Warranty</b> .....                    | <b>42</b> |
| <b>Graco Information</b> .....                          | <b>42</b> |

# Related Manuals

Manuals are available at [www.graco.com](http://www.graco.com). Component manuals below are in English:

| System Manuals     |                                                            |
|--------------------|------------------------------------------------------------|
| 335028             | Fluid Automation F4 Series Instructions - Setup-Operation  |
| 3A3103             | Fluid Automation F4 Series Instructions - Kits-Accessories |
| Ram Manuals        |                                                            |
| 3A0233             | Air-Powered Ram Instructions - Parts                       |
| Pump Manuals       |                                                            |
| 312375             | Check-Mate® Displacement Pumps Instructions - Parts        |
| Air Motor Manuals  |                                                            |
| 3A1211             | SaniForce® Air Motors Instructions - Parts                 |
| Flow Meter Manuals |                                                            |
| 308778             | Volumetric Fluid Flow Meter Instructions - Parts           |
| 309834             | Helical Gear Fluid Flow Meters Instructions - Parts        |
| Air Controls       |                                                            |
| 312374             | Air Controls Instructions - Parts                          |
| Reference Manuals  |                                                            |
| 3A1244             | Graco Control Architecture™ Module Programming             |
| Valve Manuals      |                                                            |
| 313342             | Dosing Valve Instructions - Parts                          |

# F4-5 Base Model

## F4-5 System - 24X160

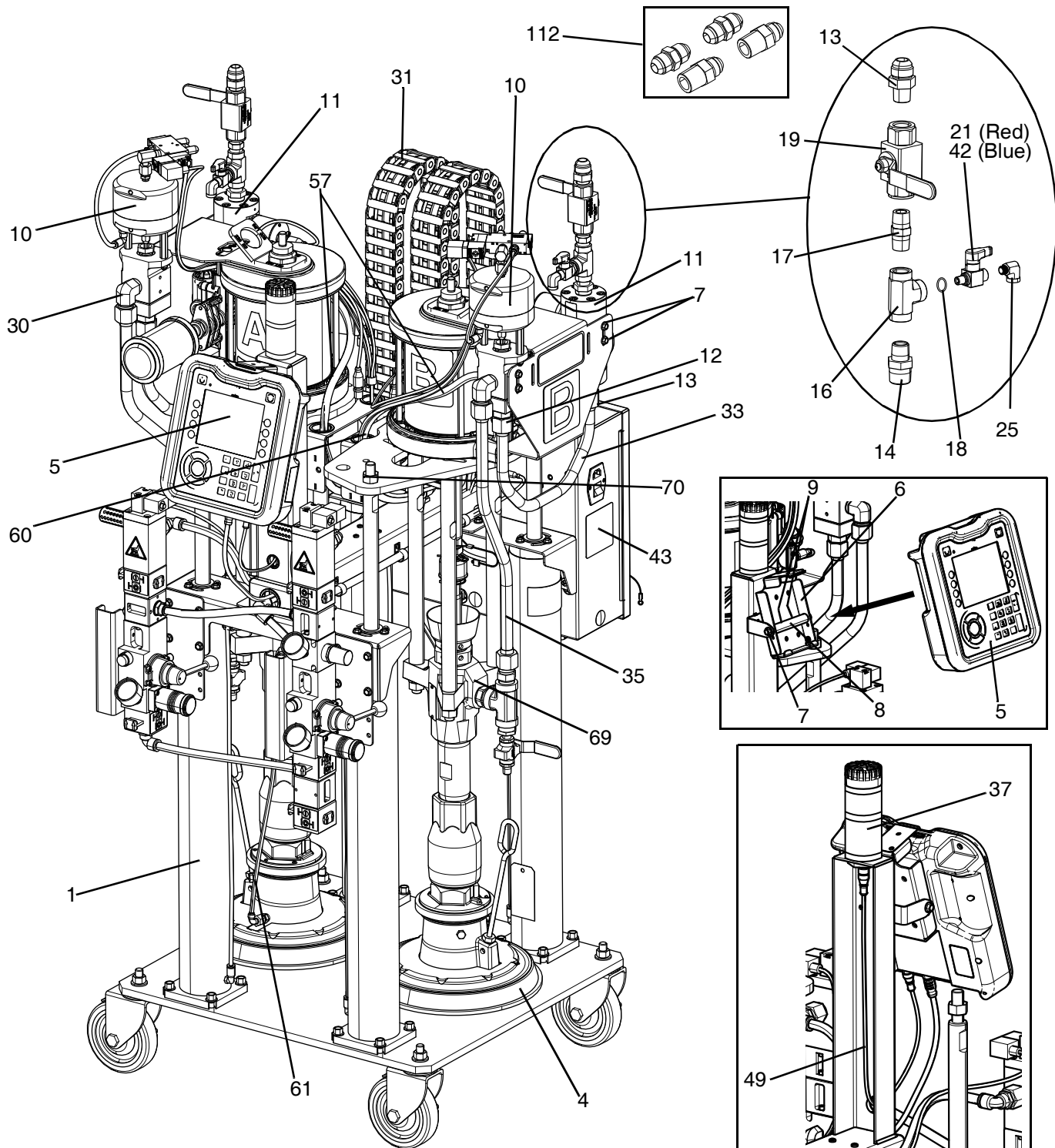


FIG. 1: F4-5 Model Front View

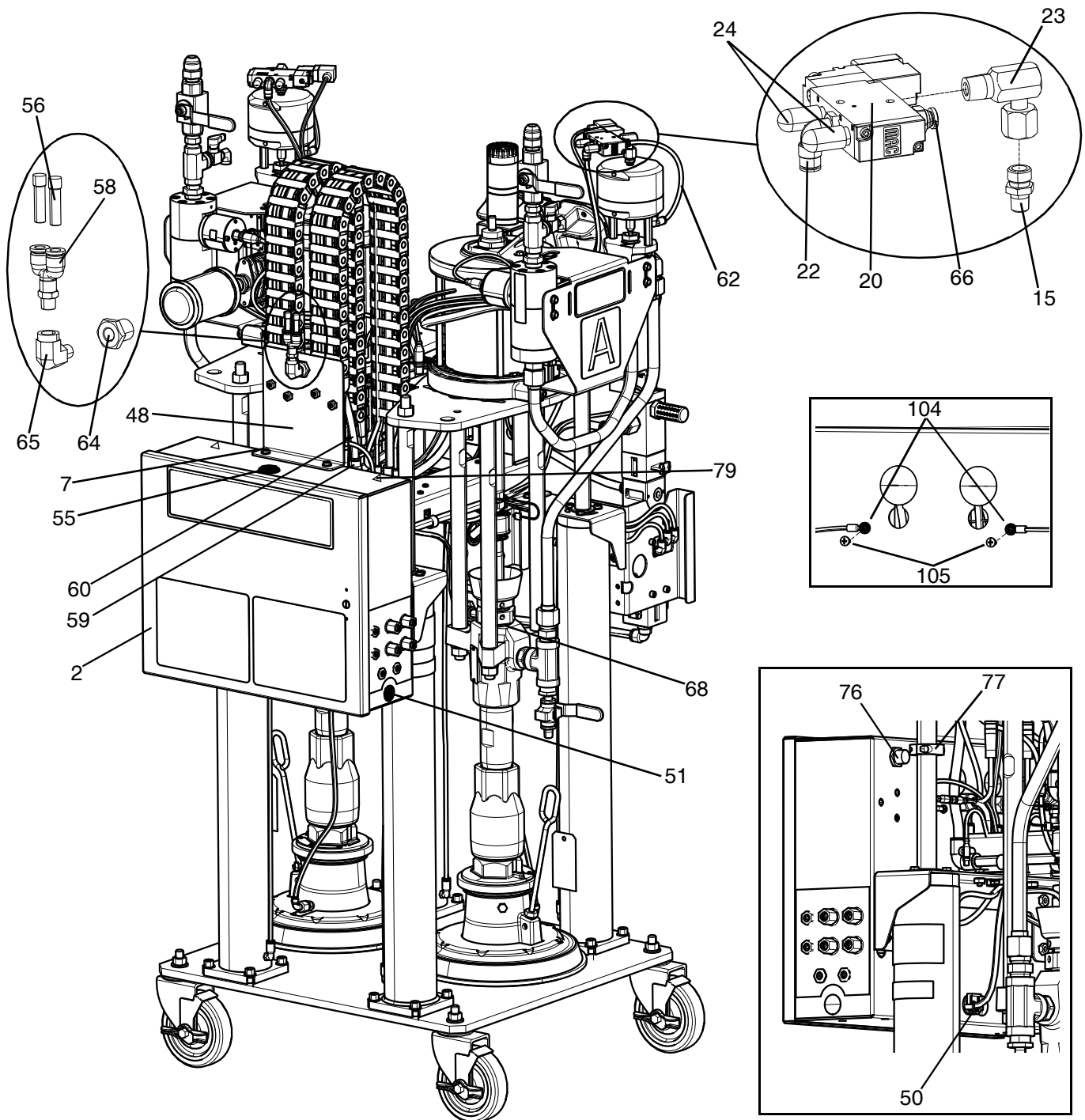


FIG. 2: F4-5 Model Rear View

| Ref | Part          | Description                                | Quantity |
|-----|---------------|--------------------------------------------|----------|
| 1   | ---           | RAM, dual, 5 gal                           | 1        |
| 2   | ---           | MODULE, controls                           | 1        |
| 4   | 25A206        | KIT, plate, 20 l, single wiper, ptfe       | 2        |
| 5   | 25A171❖       | KIT, adm, lsr f4                           | 1        |
| 6   | 255235        | BRACKET, mounting, assembly                | 1        |
| 7   | 114182        | SCREW, mach, hex flange                    | 18       |
| 8   | 17A532        | BAR, bracket, dm                           | 1        |
| 9   | 120885        | SCREW                                      | 2        |
| 10  | 24W994★       | VALVE, assy, ratio control, ss             | 2        |
| 11  | 246652        | METER, heli gear, hi resolution            | 2        |
| 12  | 15M863        | FITTING, connector, male                   | 2        |
| 13  | 94/1027/98    | ADAPTER, jic 12 x 1/2 npt, mm, ss, 3k, 316 | 4        |
| 14  | 16R883        | FITTING, nipple, reducing, 3/4 x 1/2       | 2        |
| 15  | 191872        | FITTING, adapter                           | 2        |
| 16  | 128309        | FITTING, tee, 1/2 npt, fxfxf, ss           | 2        |
| 17  | 114373        | FITTING, nipple, 1/2 npt, sst hex          | 2        |
| 18  | 128055        | FITTING, bushing, 1/2 npt x 1/8 npt, ss    | 2        |
| 19  | 262739        | VALVE, 1/2 in. ball                        | 2        |
| 20  | 127356        | VALVE, power, 5/2, 24 vdc                  | 2        |
| 21  | 256459        | KIT, a side valve                          | 1        |
| 22  | 121022        | FITTING, elbow, male, 1/4 npt              | 2        |
| 23  | 155541        | FITTING, swivel, 90 degree                 | 2        |
| 24  | 512909        | MUFFLER, polyethylene                      | 4        |
| 25  | 128054        | FITTING, elbow, st, 90, 1/8 npt, ss        | 2        |
| 30  | 94/1035/98    | ADAPTER, elbow, 90, jic 12 x 1/2 npt, mm   | 2        |
| 31  | 24X638        | GUIDE, cable, hose                         | 2        |
| 33  | 17D355        | TUBE, valve, xm, flow meter                | 2        |
| 35  | 17D354        | TUBE, valve, xm, outlet                    | 2        |
| 37  | 127187        | LIGHT, tower, 30 mm, red/grn/alarm         | 1        |
| 40  | 17C706*       | SOFTWARE, gca, lsr                         | 1        |
| 42  | 256460        | KIT, b side valve                          | 1        |
| 43  | ---           | BLANK, label, kit, 3x3                     | 1        |
| 48  | 24X522        | BRACKET, white                             | 1        |
| 49  | 128308        | CABLE, gca, m12 x m12, 4-pin x 4-pin       | 1        |
| 50  | 124005        | BUSHING, strain relief                     | 1        |
| 51  | 123812        | PLUG, hole, .875 in.                       | 3        |
| 55  | 128213        | PLUG, hole, 1.250 in.                      | 1        |
| 56  | 124419        | PLUG, tube, push, 3/8 in.                  | 2        |
| 57  | 25A036        | CABLE, gca, sig, assy, pump                | 2        |
| 58  | 128052        | FITTING, wye, 1/4 npt x 3/8 tube           | 1        |
| 59  | 122848        | FITTING, air                               | 2        |
| 60  | 61/2908-BK/11 | TUBE, 0.320 id x 0.500 od, pu, 95 dur,     | 5.5      |

|     |               |                                           |     |
|-----|---------------|-------------------------------------------|-----|
| 61  | 61/2904-RD/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur,    | 6.7 |
| 62  | 61/2904-BK/11 | HOSE, .160 id x .250 od, pu, 95 dur       | 6.7 |
| 64  | 94/0508/96    | FITTING, bulkhead, 1/4 npt, f, brs        | 1   |
| 65  | 94/0506/96    | FITTING, elbow, str, 1/4 npt, 90, brs     | 1   |
| 66  | 94/0701/96    | CONNECTOR, 1/4 tube x 1/4 npt, m, brs     | 2   |
| 68  | 25A092        | PUMP, assembly, 40:1, a side              | 1   |
| 69  | 25A093        | PUMP, assembly, 40:1, b side              | 1   |
| 70  | 100127        | NUT, mscr, hex                            | 4   |
| 71  | 128648*       | GUARD, spiral, 1/2 in, pe                 | 1   |
| 73  | 121055*       | CORD SET, us, mx, pr, ca, tw, 115 v, 10 a | 1   |
| 76  | 128435        | SWITCH, prox, m18, 10-30 vdc, no          | 2   |
| 77  | 127141        | COLLAR, clamp, 1 in. id, 2 piece          | 2   |
| 79  | 15H108▲       | LABEL, warning, pinch point               | 2   |
| 100 | 128441*       | CABLE, gca, m12, 8-pin, m, 4m, pigtail    | 1   |
| 101 | 128197*◆      | CABLE, gca, m12, 5-pin, fxm8, 4-pin, m    | 1   |
| 102 | 127949*◆      | HARNESS, splitter, m12                    | 1   |
| 103 | 125750*◆      | CORD SET, euro/male, din/female, rev      | 2   |
| 104 | 102063        | WASHER, lock, ext                         | 4   |
| 105 | 195874        | SCREW, mach, phil pan hd                  | 2   |
| 108 | 15V551*       | SHIELD, membrane, adm                     | 1   |
| 112 | 26B164‡       | KIT, adapter, hose, 08 jic, f4            | 1   |

--- Not available for individual sale.

\* Not shown.

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

❖ Includes 17C706 token.

◆ Parts are available in kit 25A106.

★ See Dosing Valve Instructions - Parts manual 313342 for parts/repair.

‡ Optional fitting adapter kit for use with 1/2 in. hoses.

## F4-5 Base/Ram - 24X281

⚠ Apply blue thread sealant to screws and torque to 30-35 ft-lb (41-47 N•m).

2. Apply pipe sealant to all non-swivel

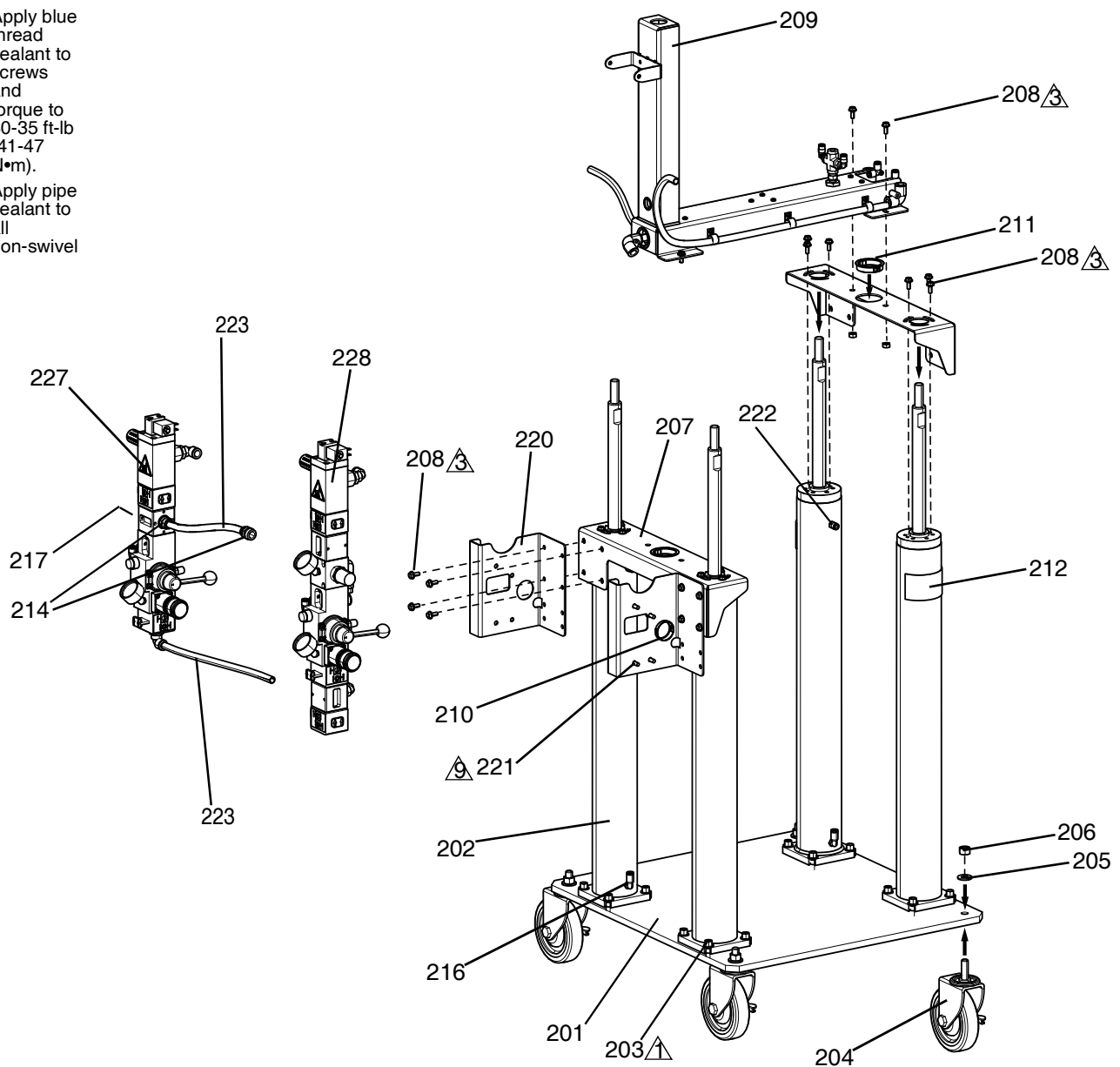
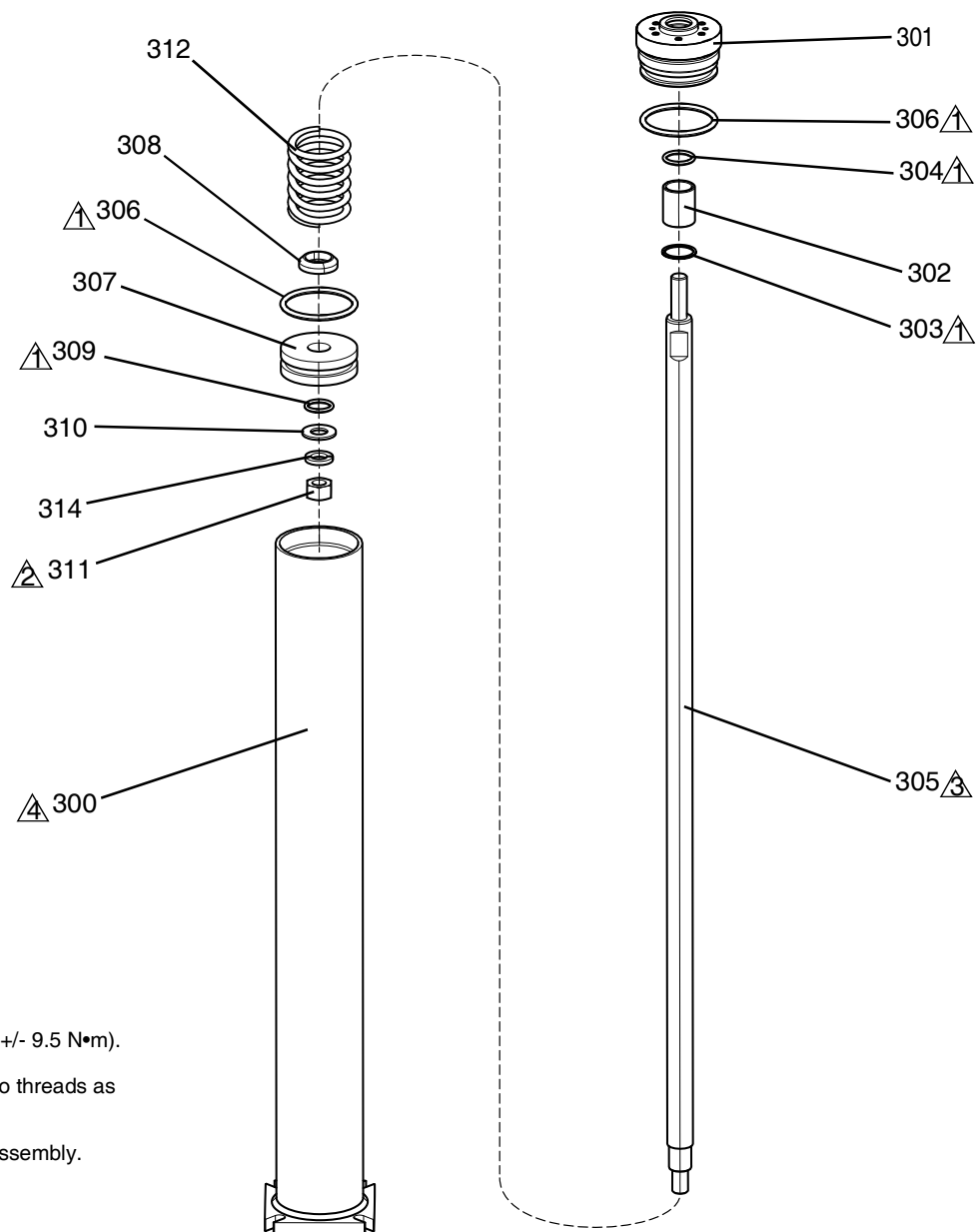


FIG. 3: F4-5 Base - Ram, Dual

| Ref | Part          | Description                             | Quantity |
|-----|---------------|-----------------------------------------|----------|
| 201 | 24W795        | PLATE, base, ram, 3.0", 5 gal, white    | 1        |
| 202 | 24W784        | RAM, assy, air cylinder, 3.0 id         | 4        |
| 203 | 127048        | SCREW, mach, hex, flange, m10 x 1.5 x 2 | 16       |
| 204 | 16M465        | CASTER, locking                         | 4        |
| 205 | 113962        | WASHER, hardened, sae                   | 4        |
| 206 | 100321        | NUT                                     | 4        |
| 207 | 24W793        | BRACKET, tiebar, ram, white             | 2        |
| 208 | 114182        | SCREW, mach, hex flange                 | 24       |
| 209 | 25A073        | BRACKET, assembly, 5 gal                | 1        |
| 210 | 123589        | BUSHING, wire protector, snap-in        | 1        |
| 211 | 124128        | BUSHING, wire protector, snap-in        | 2        |
| 212 | 15J074▲       | LABEL, safety, crush & pinch            | 2        |
| 214 | 114111        | FITTING, connector, male                | 2        |
| 216 | 128863        | FITTING, elbow                          | 4        |
| 217 | 100361        | PLUG, pipe                              | 1        |
| 220 | 24W796        | BRACKET, air tree, ram                  | 2        |
| 221 | 121112        | SCREW, cap, socket head                 | 8        |
| 222 | 115671        | FITTING, connector, male                | 4        |
| 223 | 61/2908-BK/11 | TUBE, 0.320 id x 0.500 od, pu, 95 dur   | 2.5      |
| 227 | 24X286        | CONTROL, air, 1/2", manifold            | 1        |
| 228 | 24X187        | CONTROL, air, 1/2", reg, manifold       | 1        |

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

## F4-5 Ram Air Cylinder - 24W784



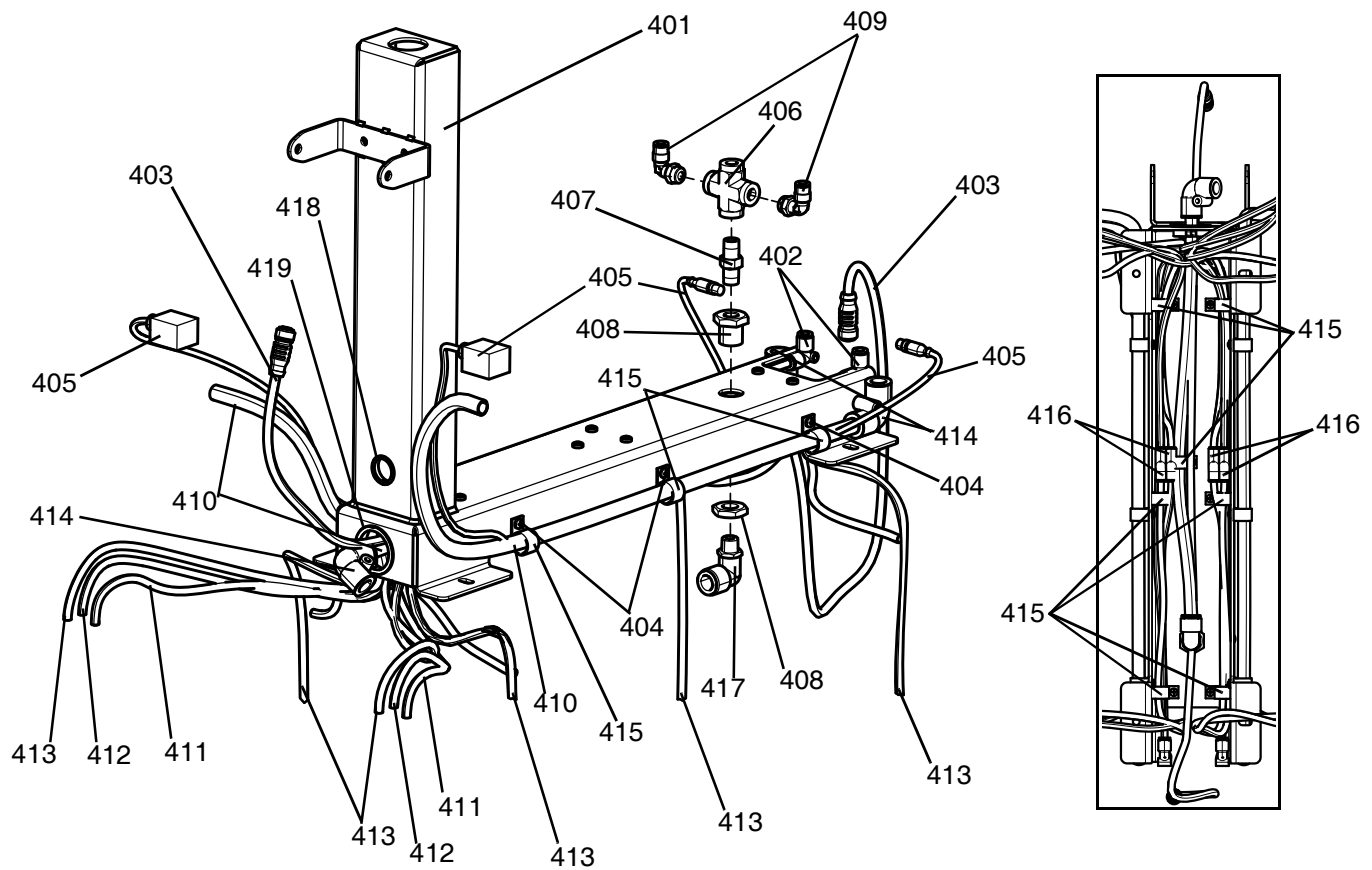
**FIG. 4: F4-5 Ram Air Cylinder**

| Ref | Part      | Description                    | Quantity |
|-----|-----------|--------------------------------|----------|
| 300 | 24W786    | TUBE, ram, assy, 3.0 id, white | 1        |
| 301 | 16V079    | CAP, bearing, air cylinder     | 1        |
| 302 | 16V080❖   | BEARING, air cylinder          | 1        |
| 303 | 127022❖   | RING, retaining, spiral        | 1        |
| 304 | 160516❖   | PACKING, o-ring, 214           | 1        |
| 305 | 17C803    | ROD, piston, ram               | 1        |
| 306 | 160258❖   | PACKING, o-ring, buna-n        | 2        |
| 307 | 183943    | PISTON,                        | 1        |
| 308 | 16V081    | GUIDE, spring                  | 1        |
| 309 | 156401❖   | PACKING, o-ring                | 1        |
| 310 | 111841    | WASHER, plain 5/8              | 1        |
| 311 | 100127    | NUT, mscr, hex                 | 1        |
| 312 | 160138    | SPRING, compression            | 1        |
| 314 | 100128    | WASHER, lock                   | 1        |
| 315 | 16M106 ❖* | LUBRICANT, o-rings             | 1        |

❖ *Parts are available in kit 25A197.*

\* *Not shown.*

## Air-Line Bracket Assembly - 25A073



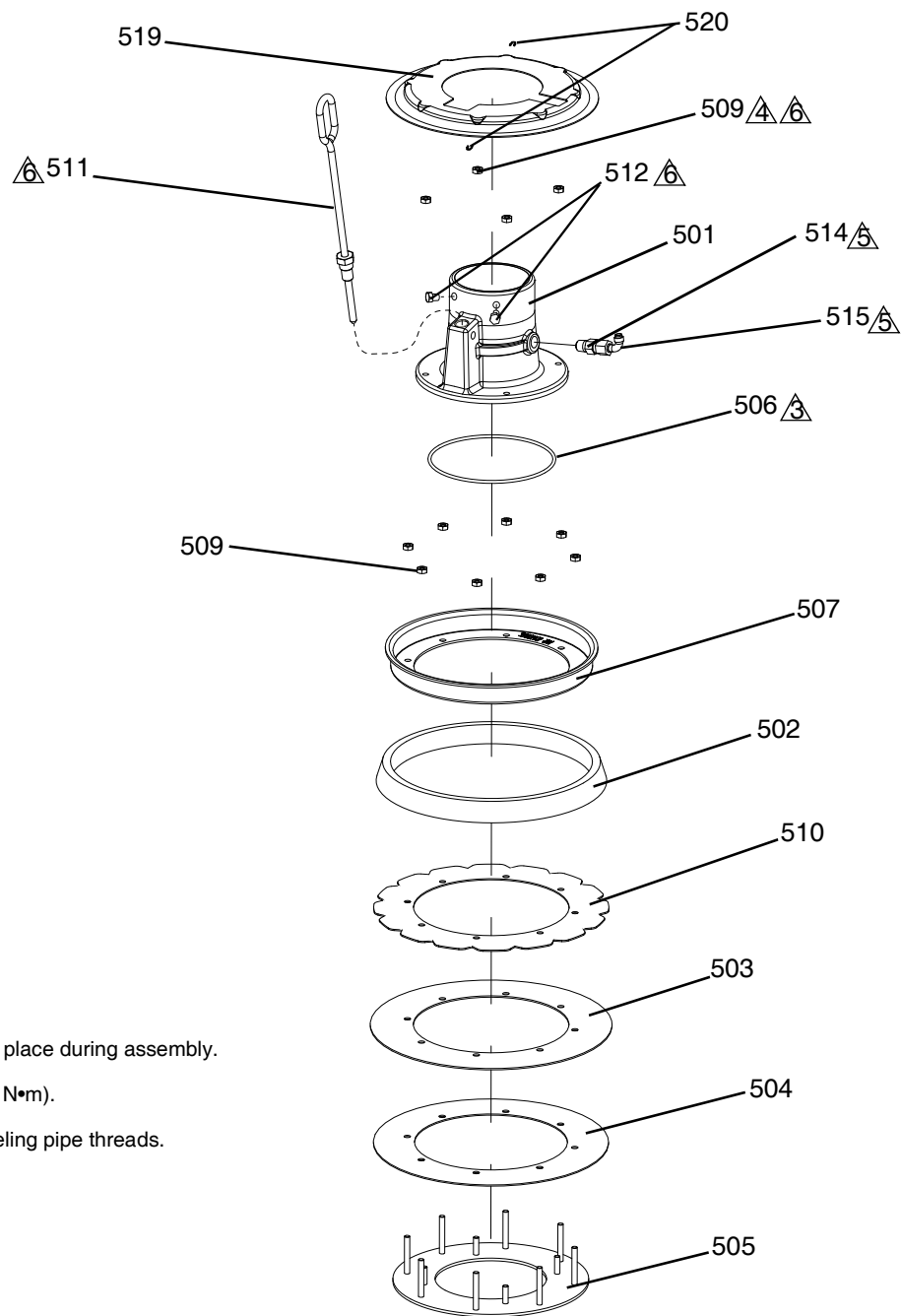
4. Apply pipe sealant as needed.

**FIG. 5: Air-Line Bracket**

| Ref | Part          | Description                              | Quantity |
|-----|---------------|------------------------------------------|----------|
| 401 | ---           | BRACKET, support, ram, 3.0", 5 gal, wht  | 1        |
| 402 | C20354        | FITTING, elbow, union, qd                | 2        |
| 403 | 121002        | CABLE, can, female / female 1.5m         | 1        |
| 404 | 96/0651/99    | FASTENER, bhcs, 10-32 x 0.38, ms, e      | 13       |
| 405 | 15Y047        | CABLE, m8-din i                          | 2        |
| 406 | 94/0502/96    | FITTING, cross, 1/4 npt, f, brs          | 1        |
| 407 | 94/0507/96    | FITTING, nipple, hex, 1/4 npt, brs       | 1        |
| 408 | 94/0508/96    | FITTING, bulkhead, 1/4 npt, f, brs       | 1        |
| 409 | 121022        | FITTING, elbow, male, 1/4 npt            | 2        |
| 410 | 61/2908-BK/11 | TUBE, 0.320 id x 0.500 od, pu, 95 dur,   | 6.5      |
| 411 | 61/2904-BU/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur,   | 10       |
| 412 | 61/2904-RD/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur,   | 6.5      |
| 413 | 61/2904-BK/11 | HOSE, .160 id x .250 od, pu, 95 dur      | 15.9 ft. |
| 414 | 128262        | FITTING, elbow ,90, 1/2" tube, fxf       | 3        |
| 415 | 84/0153/89    | CLAMP, wire, harness, 5/8, nyl           | 13       |
| 416 | 115287        | FITTING, y tube                          | 4        |
| 417 | 121459        | FITTING, elbow, 90, 1/2" tube x 1/4 nptm | 1        |
| 418 | 124232        | BUSHING, wire protector, .875 dia        | 1        |
| 419 | 123589        | BUSHING, wire protector, snap-in         | 1        |

--- Not available for individual sale.

## F4-5 Platen - 25A206



- △3 Apply lubricant to hold ring in place during assembly.
- △4 Torque to 45 +/- in-lb (5 +/- .6 N•m).
- △5 Apply sealant to all non-swiveling pipe threads.
- △6 Add lubricant to threads.

**FIG. 6: F4-5 Platen**

| Ref | Part    | Description                    | Quantity |
|-----|---------|--------------------------------|----------|
| 501 | ---     | BASE, platen, sst, 20-60 l     | 1        |
| 502 | 276049❖ | SPACER                         | 1        |
| 503 | 25A208❖ | WIPER, main, nbr, fda approved | 1        |
| 504 | 257681❖ | WIPER, pe support              | 1        |
| 505 | ---❖    | PLATE, bottom, platen          | 1        |
| 506 | 121829  | O-RING, packing -162           | 1        |
| 507 | ---❖    | CLAMP, 20 liter, retaining     | 1        |
| 509 | ---❖    | NUT, lock, hex, sst            | 12       |
| 510 | 257689  | WIPER, support                 | 1        |
| 511 | 257697  | HANDLE, bleed, sst, assy       | 1        |
| 512 | 112894  | SCREW, cap, hex hd             | 2        |
| 514 | 501867  | VALVE, check 1/4 npt, ss       | 1        |
| 515 | 17E556  | FITTING, elbow 90 deg          | 1        |
| 519 | 15W184❖ | COVER, 20 l, shroud            | 1        |
| 520 | 16U740❖ | PIN, hairpin, cotter           | 2        |

-- Not available for individual sale.

❖ Parts are available in kit 25A207.

# F4-55 Base Models

## F4-55 System - 24X167 and 24X169

**NOTE:** F4-55 models are offered with or without casters installed. Part 24X167 includes casters. Part number 24X169 does not include casters. There is an optional caster kit (part no. 24X218) available for attaching casters to 24X169. See the Fluid Automation F4 Series Kits-Accessories manual 3A3103 for information about the caster kit.

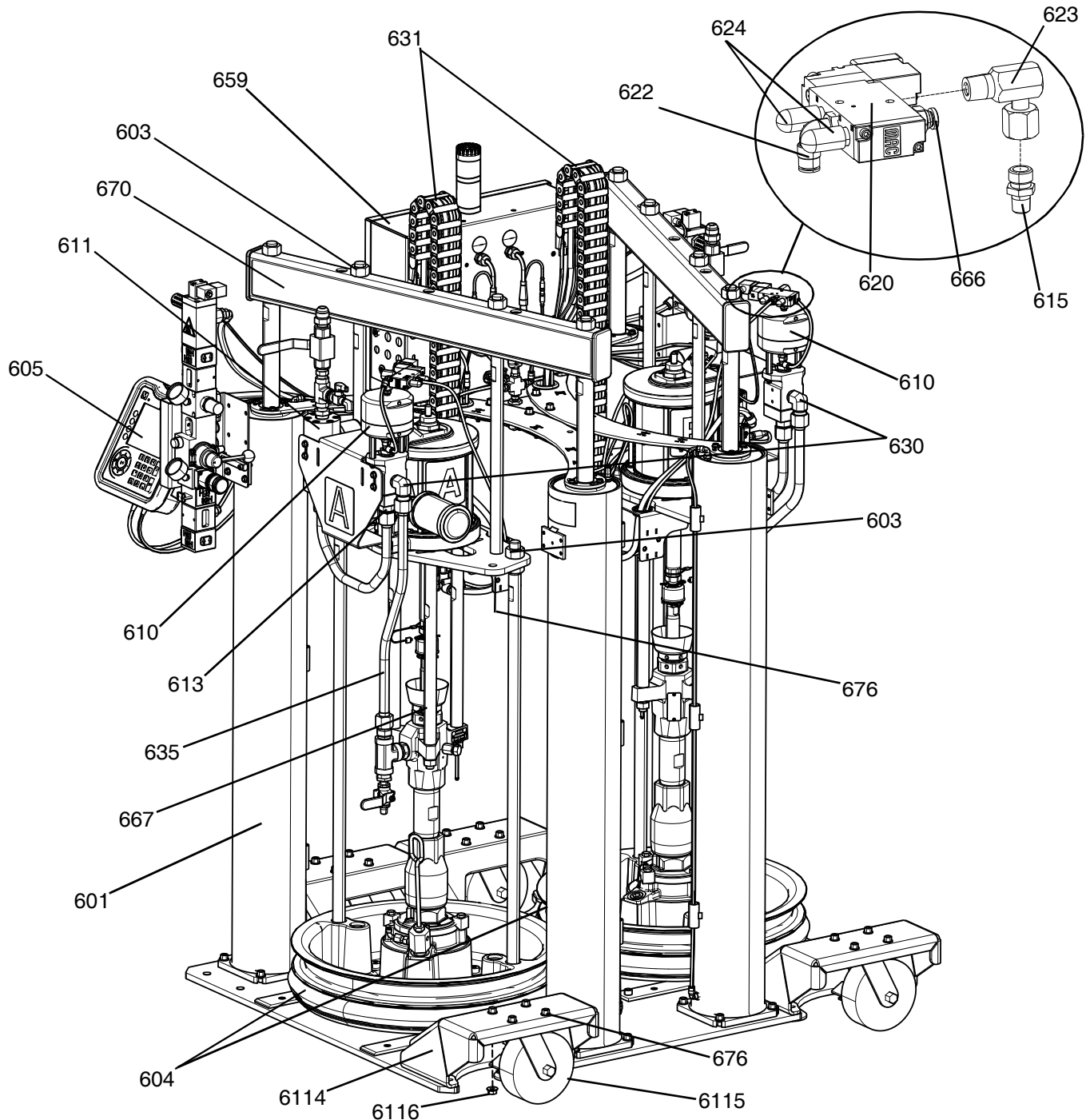
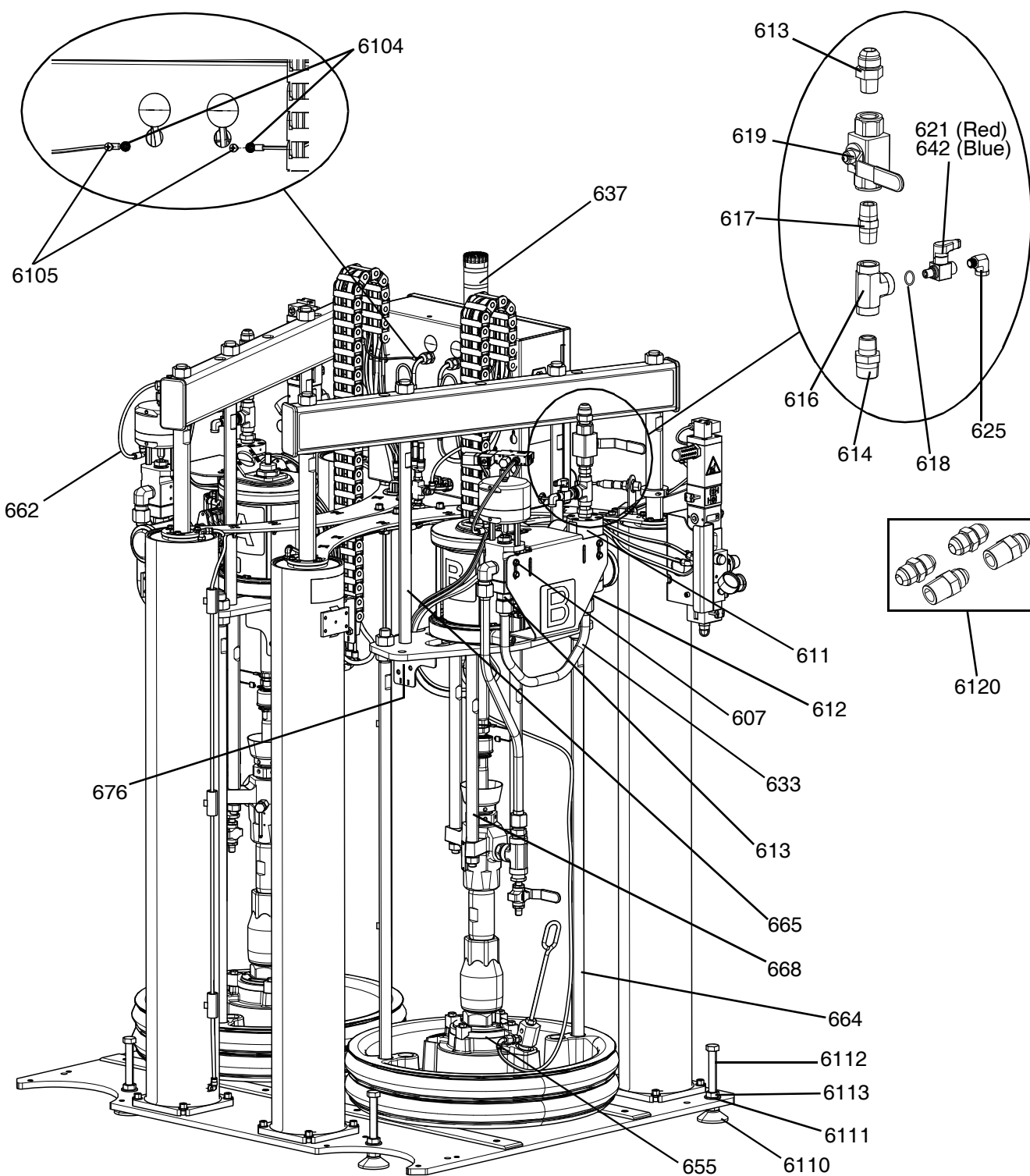


FIG. 7: F4-55 Model, 24X167 with Casters - View 1



**FIG. 8: F4-55 Model, 24X169 without Casters - View 2**

**NOTE:** Part 24X169 has levelers instead of casters. Part 24X167 does not have levelers.

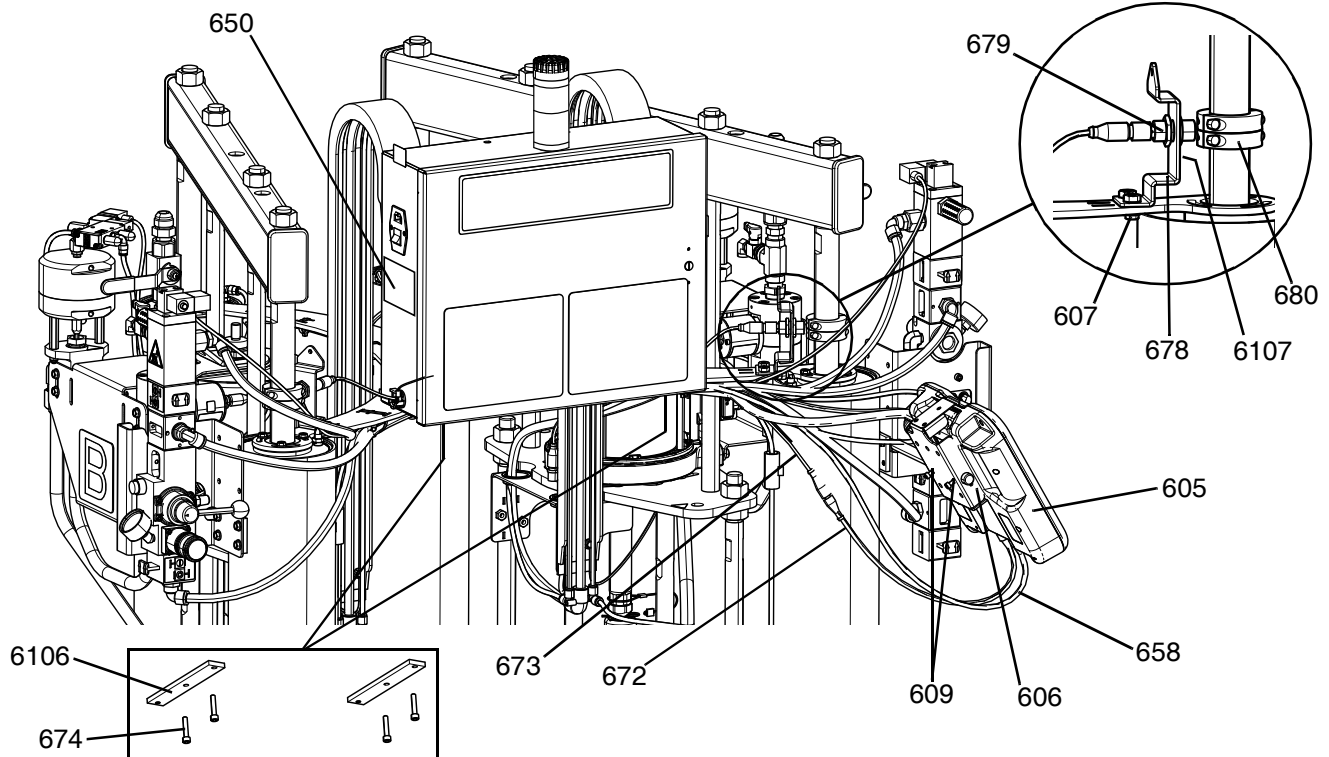


FIG. 9: F4-55 Model - View 3

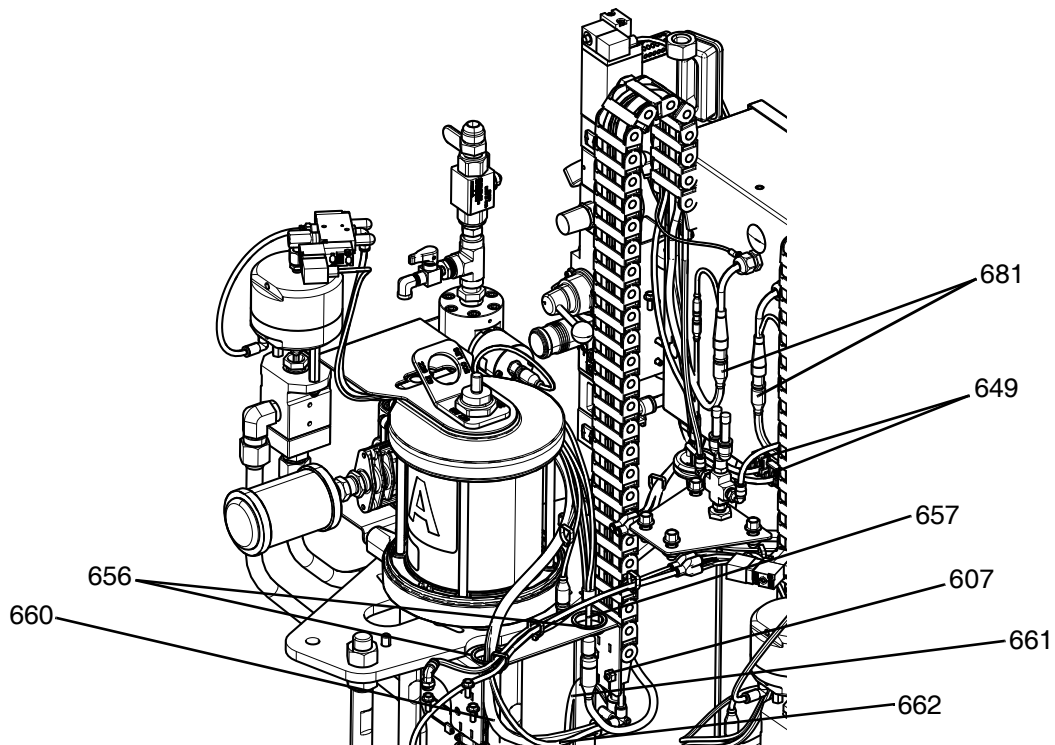


FIG. 10: F4-55 Model - View 4

**NOTE:** This parts list also applies to Model F4-55-5. See page 22.

| Ref | Part          | Description                                | Quantity |
|-----|---------------|--------------------------------------------|----------|
| 601 | ---           | RAM, dual, 55 gal                          | 1        |
| 603 | 101535        | NUT, full hex                              | 12       |
| 604 | 25A230        | PLATE, wiper, 55 g, neo, no sulphur        | 2        |
| 605 | 25A171❖       | KIT, adm lsr f4                            | 1        |
| 606 | 255235        | BRACKET, mounting, assembly                | 1        |
| 607 | 114182        | SCREW, mach, hex flange                    | 20       |
| 609 | 120885        | SCREW                                      | 2        |
| 610 | 24W994        | VALVE, assy, ratio control, ss             | 2        |
| 611 | 246652        | METER, heli gear, hi resolution            | 2        |
| 612 | 15M863        | FITTING, connector, male                   | 2        |
| 613 | 94/1027/98    | ADAPTER, jic 12 x 1/2 npt, mm, ss, 3k, 316 | 4        |
| 614 | 16R883        | FITTING, nipple, reducing, 3/4 x 1/2       | 2        |
| 615 | 191872        | FITTING, adapter                           | 2        |
| 616 | 128309        | FITTING, tee, 1/2 npt                      | 2        |
| 617 | 114373        | FITTING, nipple, 1/2 npt, sst hex          | 2        |
| 618 | 128055        | FITTING, bushing, 1/2 npt x 1/8 npt, ss    | 2        |
| 619 | 262739        | VALVE, 1/2 in. ball                        | 2        |
| 620 | 127356        | VALVE, power, 5/2, 24 vdc                  | 2        |
| 621 | 256459        | KIT, a side valve                          | 1        |
| 622 | 121022        | FITTING, elbow, male, 1/4 npt              | 2        |
| 623 | 155541        | FITTING, swivel, 90 degree                 | 2        |
| 624 | 512909        | MUFFLER, polyethylene                      | 4        |
| 625 | 128054        | FITTING, elbow, st, 90, 1/8 npt, ss        | 2        |
| 630 | 94/1035/98    | ADAPTER, elbow, 90, jic 12 x 1/2 npt, mm   | 2        |
| 631 | 24X638        | GUIDE, cable, hose                         | 2        |
| 633 | 17D355        | TUBE, valve, xm, flow meter                | 2        |
| 635 | 17D354        | TUBE, valve, xm, outlet                    | 2        |
| 637 | 127187        | LIGHT, tower, 30 mm, red/grn/alarm         | 1        |
| 642 | 256460        | KIT, b side valve                          | 1        |
| 649 | 124005        | BUSHING, strain relief                     | 3        |
| 650 | ---           | BLANK, label, kit, 3 x 3                   | 1        |
| 655 | 255392        | KIT, mounting, cm lower                    | 2        |
| 656 | 123679        | BUSHING, wire protector, 1 3/8 od          | 4        |
| 657 | 25A036        | CABLE, gca, sig, assy, pump                | 2        |
| 658 | 121002        | CABLE, can, female / female 1.5 m          | 1        |
| 659 | ---           | MODULE, controls                           | 1        |
| 660 | 61/2908-BK/11 | TUBE, 0.320 id x 0.500 od, pu, 95 dur      | 6        |
| 661 | 61/2904-RD/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur      | 8        |
| 662 | 61/2904-BK/11 | HOSE, .160 id x .250 od, pu, 95 dur        | 5        |
| 664 | 17E141        | ROD, tie, platen, lower, 55                | 4        |
| 665 | 17E142        | ROD, tie, platen, upper, 55/5              | 4        |
| 666 | 94/0701/96    | CONNECTOR, 1/4 tube x 1/4 npt, m, brs      | 2        |

|      |          |                                           |    |
|------|----------|-------------------------------------------|----|
| 667  | 25A092   | PUMP, assembly, 40:1, a side              | 1  |
| 668  | 25A093   | PUMP, assembly, 40:1, b side              | 1  |
| 670  | 17D088   | LABEL, identification                     | 2  |
| 671  | 124662*  | GUARD, spiral, 1/2 in., pe                | 1  |
| 672  | 128308   | CABLE, gca, m 12 x m 12, 4-pin x 4-pin    | 1  |
| 673  | 123673   | HARNESS                                   | 1  |
| 674  | 126797   | SCREW, socket head, m6 x 25 mm            | 4  |
| 676  | 127048✓  | SCREW, mach, hex, flange, m10 x 1.5 x 2   | 4  |
|      | 127048✖  | SCREW, mach, hex, flange, m10 x 1.5 x 2   | 36 |
| 678  | 24X601   | BRACKET, sensor, assy, white              | 2  |
| 679  | 128435   | SWITCH, prox, m18, 10-30 vdc, no          | 2  |
| 680  | 127140   | COLLAR, clamp, 1-3/8 id, 2-piece          | 2  |
| 681  | 15Y047   | CABLE, m8-din i                           | 2  |
| 682  | 121055*  | CORD SET, us, mx, pr, ca, tw, 115 v, 10 a | 1  |
| 683  | 17C706*  | SOFTWARE, gca, lsr                        | 1  |
| 6100 | 128441*◆ | CABLE, GCA, m12, 8-pin, m, 4m, pigtail    | 1  |
| 6101 | 128197*◆ | CABLE, GCA, m12, 5-pin, fxm8, 4-pin, m    | 1  |
| 6102 | 127949*◆ | HARNESS, splitter, m12                    | 1  |
| 6103 | 125750*◆ | CORD SET, euro/male, din/female, rev      | 2  |
| 6104 | 102063   | WASHER, lock, ext                         | 4  |
| 6105 | 195874   | SCREW, mach, phil pan hd                  | 2  |
| 6106 | 25A159   | BRACKET, support                          | 2  |
| 6107 | 15H108▲  | LABEL, warning pinch point                | 4  |
| 6110 | 126848✓  | LEVELER, foot, 5/8-11, 2.5 in. dia 6 L    | 5  |
| 6111 | 111841✓  | WASHER, plain, 5/8                        | 5  |
| 6112 | 126849✓  | BOLT, tap, hex, 5/8-11 x 5 in., A307, CS  | 5  |
| 6113 | 100127✓  | NUT, mscr, hex                            | 5  |
| 6114 | 24X217✖  | BRACKET, caster, white                    | 4  |
| 6115 | 121495✖  | CASTER, swivel, w/brake, 800 lbs          | 4  |
| 6116 | 127076✖  | NUT, hex, flange, serrated, m 10          | 16 |
| 6120 | 26B164‡  | KIT, adapter, hose, 08 jic, f4            | 1  |

--- Not available for individual sale.

\* Not shown.

❖ Includes 17C706 software token.

◆ Parts are available in kit 25A106.

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

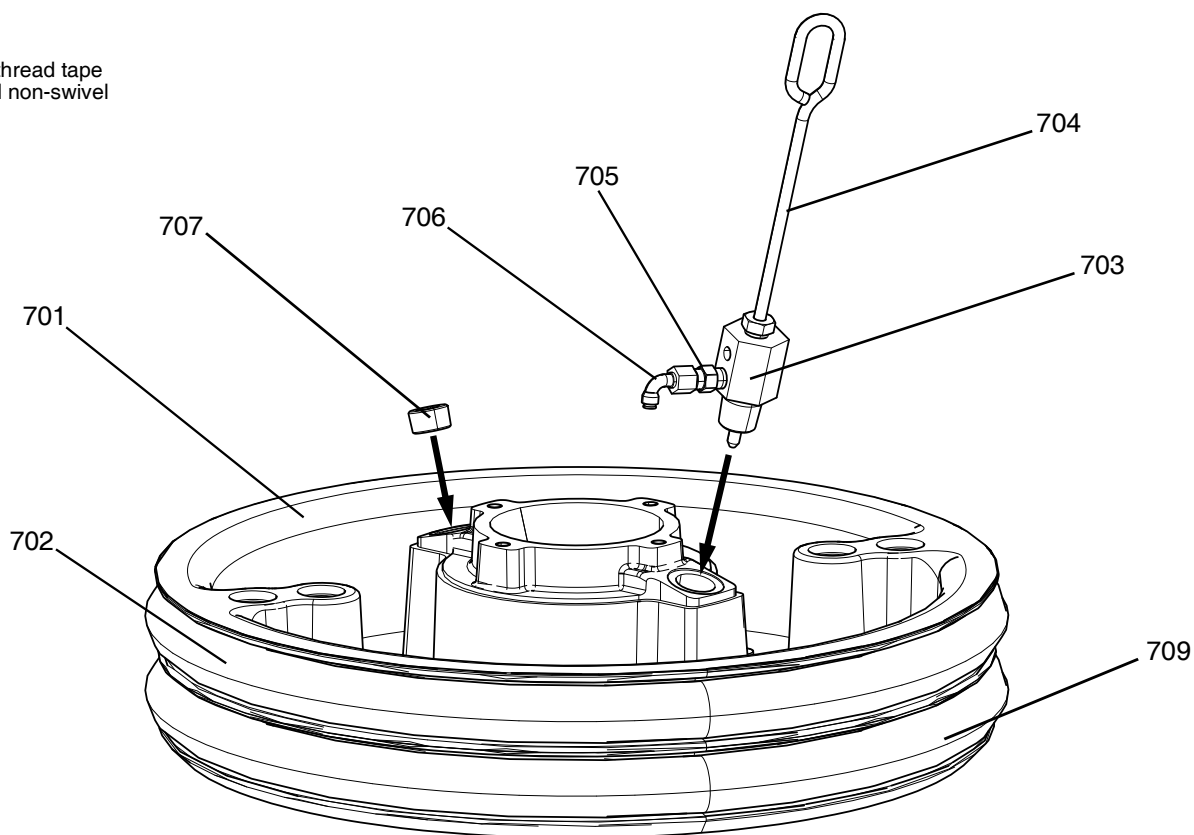
✓ Parts are for 24X168 (F4-55-5) and 24X169 (F4-55) with levelers only.

✖ Parts are for 24X166 (F4-55-5) and 24X167 (F4-55) with casters only.

‡ Optional fitting adapter kit for use with 1/2 in. hoses.

## F4-55 Platen - 25A230

2. Use thread tape  
on all non-swivel



**FIG. 11: F4-55 Platen**

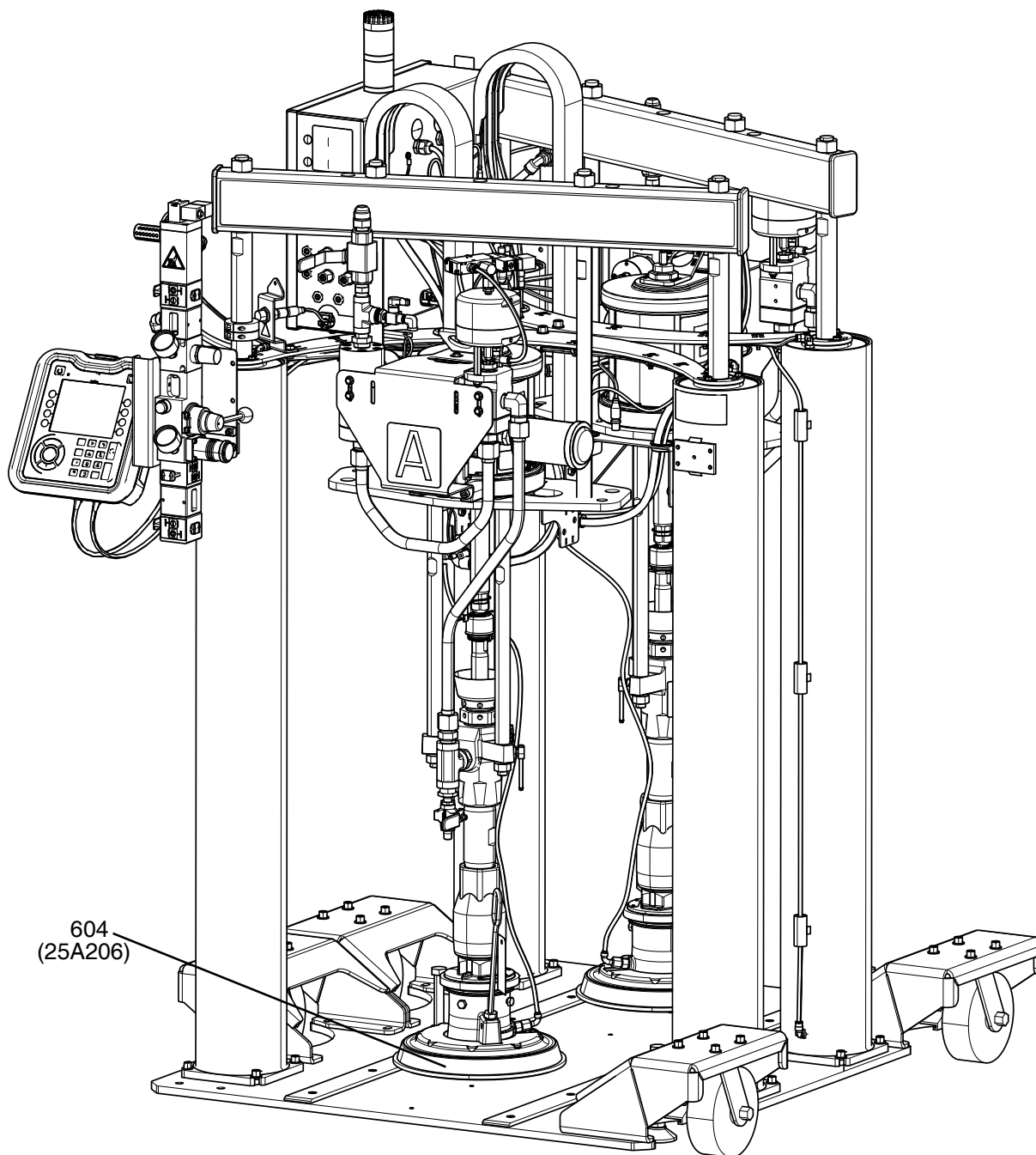
| Ref | Part   | Description                         | Quantity |
|-----|--------|-------------------------------------|----------|
| 701 | 15Y351 | PLATE, ram, 55 gal, low volume, htd | 1        |
| 702 | ---❖   | SEAL, drum wiper 55 gal neoprene    | 1        |
| 703 | 16W974 | ADAPTER, bleed stick, sst           | 1        |
| 704 | 257697 | HANDLE, bleed, sst, assy            | 1        |
| 705 | 501867 | VALVE, check                        | 1        |
| 706 | 17E556 | FITTING, elbow 90 deg               | 1        |
| 707 | 111384 | PLUG, pipe                          | 1        |
| 709 | ---❖   | SEAL, drum wiper 55 gallon, neo     | 1        |

--- Not available for individual sale.

❖ Parts are available in kit 25A116.

## F4-55-5 System - 24X166 and 24X168

**NOTE:** F4-55-5 models are offered with or without casters installed. Part 24X166 includes casters. Part number 24X168 does not include casters, but has levelers instead. There is an optional caster kit (part no. 24X218) available for attaching casters to 24X168. See the Fluid Automation F4 Series Kits-Accessories manual 3A3103 for information about the caster kit.



**Fig. 12: F4-55-5 Model, 24X166 with Casters**

## **F4-55-5 Model**

Refer to the F4-55 parts list on page 19 and Figures 7-10 to identify the F4-55-5 parts. There are only three differences in the parts list between the F4-55 and the F4-55-5.

On the F4-55-5:

- The platen (Ref. 604 on the F4-55 parts list) is part no. 25A206 on the F4-55-5. See page 14 for a description of the parts for this 5 gallon platen.
- Part no. 255392 (Ref. 655) is not required for the 5 gallon model and is not included on the F4-55-5.
- Part no. 17E141 (Ref. 664) is not required for the 5 gallon model and is not included on the F4-55-5.

## F4-55 and 55-5 Base/Ram - 24X185

1. Apply sealant to all non-swivel npt threads if the fitting does not already have a sealant applied.

△6 Apply adhesive and torque fasteners in this order.

△A Torque to 30-35 ft-lb (41-47 N•m).

△B Torque to 8-9 ft-lb (11-12 N•m).

△C Torque to 30-35 ft-lb (41-47 N•m)

△D Torque to 0-35 ft-lb (41-47 N•m)

△7 Apply adhesive and torque to 30-35 ft-lb (41-47 N•m).

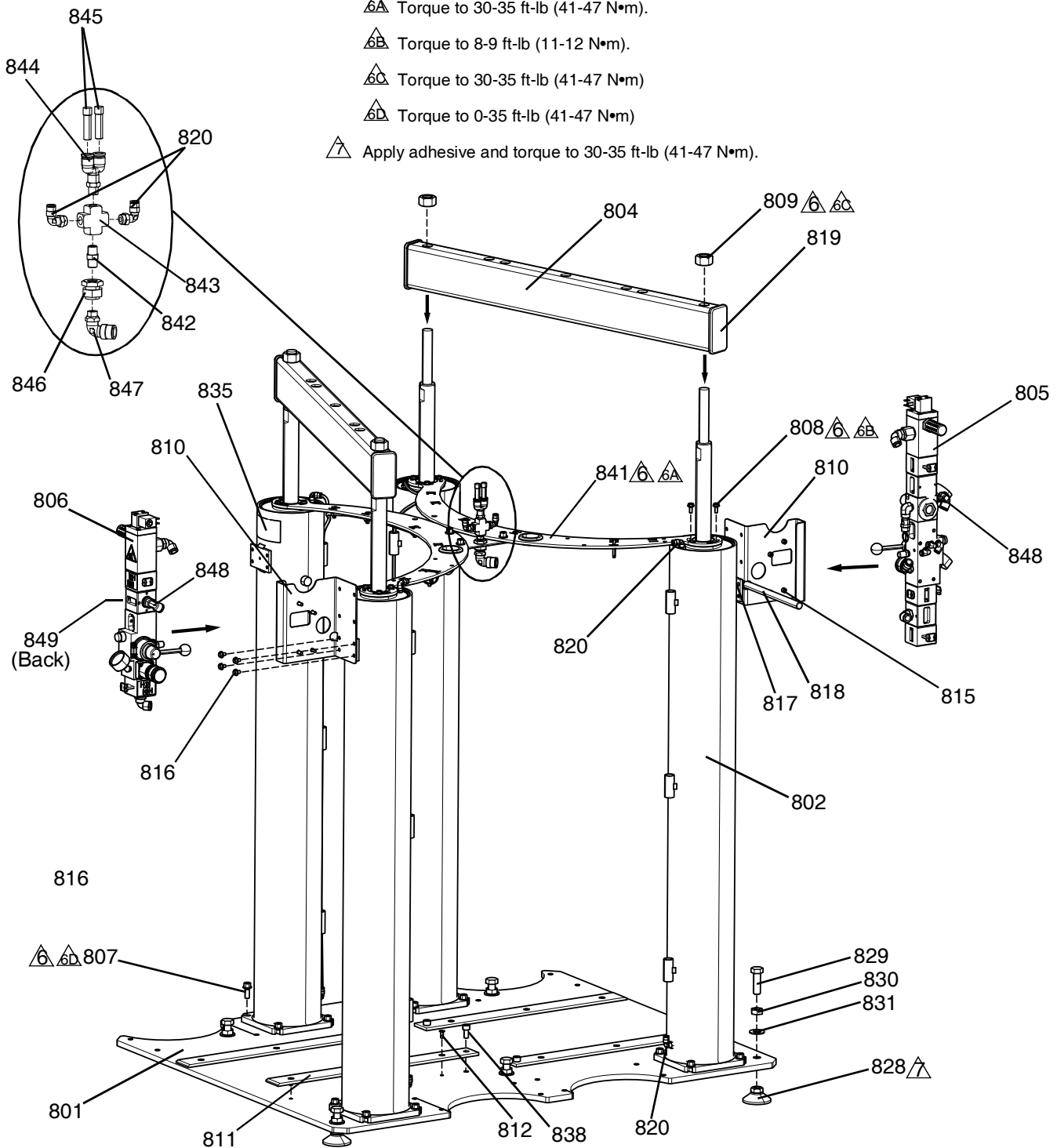
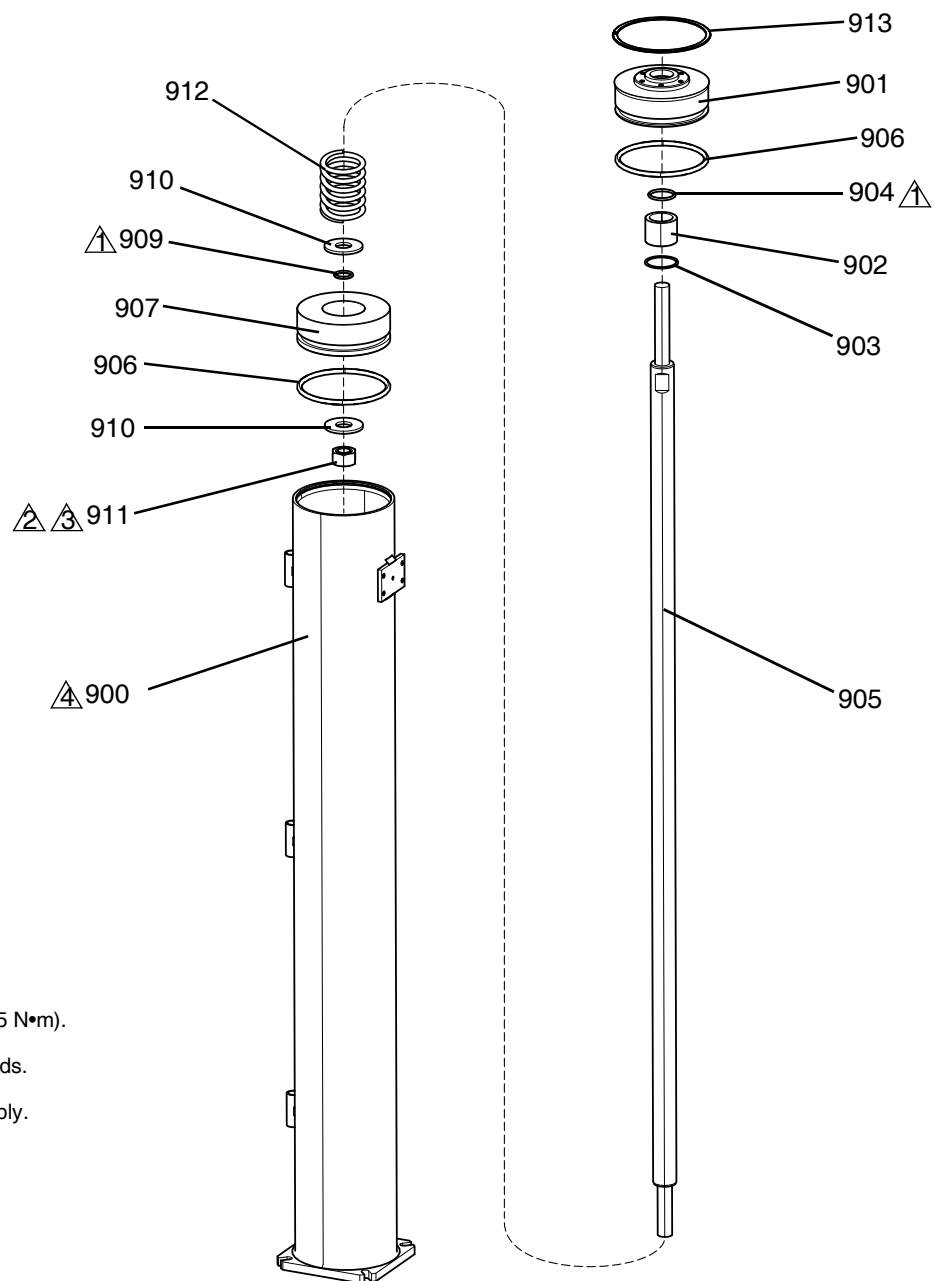


FIG. 13: F4-55 Base - Ram, Dual

| Ref | Part       | Description                                 | Quantity |
|-----|------------|---------------------------------------------|----------|
| 801 | 24X178     | BASE, plate, ram, dual 55 gal, white        | 1        |
| 802 | 24X176     | RAM, assy, air cylinder, 5.5 id             | 4        |
| 804 | 24X188     | BEAM, tie, ram, white                       | 2        |
| 805 | 24X187     | CONTROL, air, 1/2", reg, manifold           | 1        |
| 806 | 24X286     | CONTROL, air, 1/2", manifold                | 1        |
| 807 | 127048     | SCREW, mach, hex, flange, m10 x 1.5 x 2     | 16       |
| 808 | 114182     | SCREW, mach, hex flange                     | 12       |
| 809 | 101535     | NUT, full hex                               | 4        |
| 810 | 24W796     | BRACKET, air tree, ram                      | 2        |
| 811 | 16V208     | GUIDE, drum, umhw                           | 4        |
| 812 | 127036     | SCREW, mach, flathead, socket, m6 x 16      | 12       |
| 815 | 121112     | SCREW, cap, socket head                     | 8        |
| 816 | 127047     | SCREW, mach, hex, flange, m6 x1 x 10 mm     | 6        |
| 817 | 126797     | SCREW, socket head, m6 x 25 mm              | 2        |
| 818 | 16V527     | BAR, bracket, ram, dm                       | 1        |
| 819 | 189559     | CAP, end                                    | 4        |
| 820 | 121022     | FITTING, elbow, male, 1/4 npt               | 10       |
| 828 | 126848     | LEVELER, foot, 5/8-11, 2.5" dia, 6k         | 5        |
| 829 | 126849     | BOLT, tap, hex, 5/8-11 x 5", a307, cs       | 5        |
| 830 | 100127     | NUT, mscr, hex                              | 5        |
| 831 | 111841     | WASHER, plain 5/8                           | 5        |
| 835 | 15J074▲    | LABEL, safety, crush & pinch                | 2        |
| 838 | 127037     | SCREW, cap, socket head, m10 x 20           | 4        |
| 841 | 25A069     | BRACKET, assembly, air lines, 55 gal        | 1        |
| 842 | 123257     | FITTING, nipple, hex, 1/4npt, brs           | 1        |
| 843 | 113264     | CROSS, pipe                                 | 1        |
| 844 | 128052     | FITTING, wye, 1/4 npt x 3/8 tube            | 1        |
| 845 | 124419     | PLUG, tube, push, 3/8"                      | 2        |
| 846 | 94/0508/96 | FITTING, bulkhead, 1/4 npt, f, brs          | 1        |
| 847 | 121459     | FITTING, elbow, 90, 1/2 in. tube x 1/4 nptm | 1        |
| 848 | 15V204     | FITTING, elbow, 1/2 npt x 1/2 tube          | 2        |
| 849 | 100361     | PLUG, pipe                                  | 1        |

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

## F4-55 and 55-5 Ram Air Cylinder - 24X175



**FIG. 14: F4-55 Ram Air Cylinder**

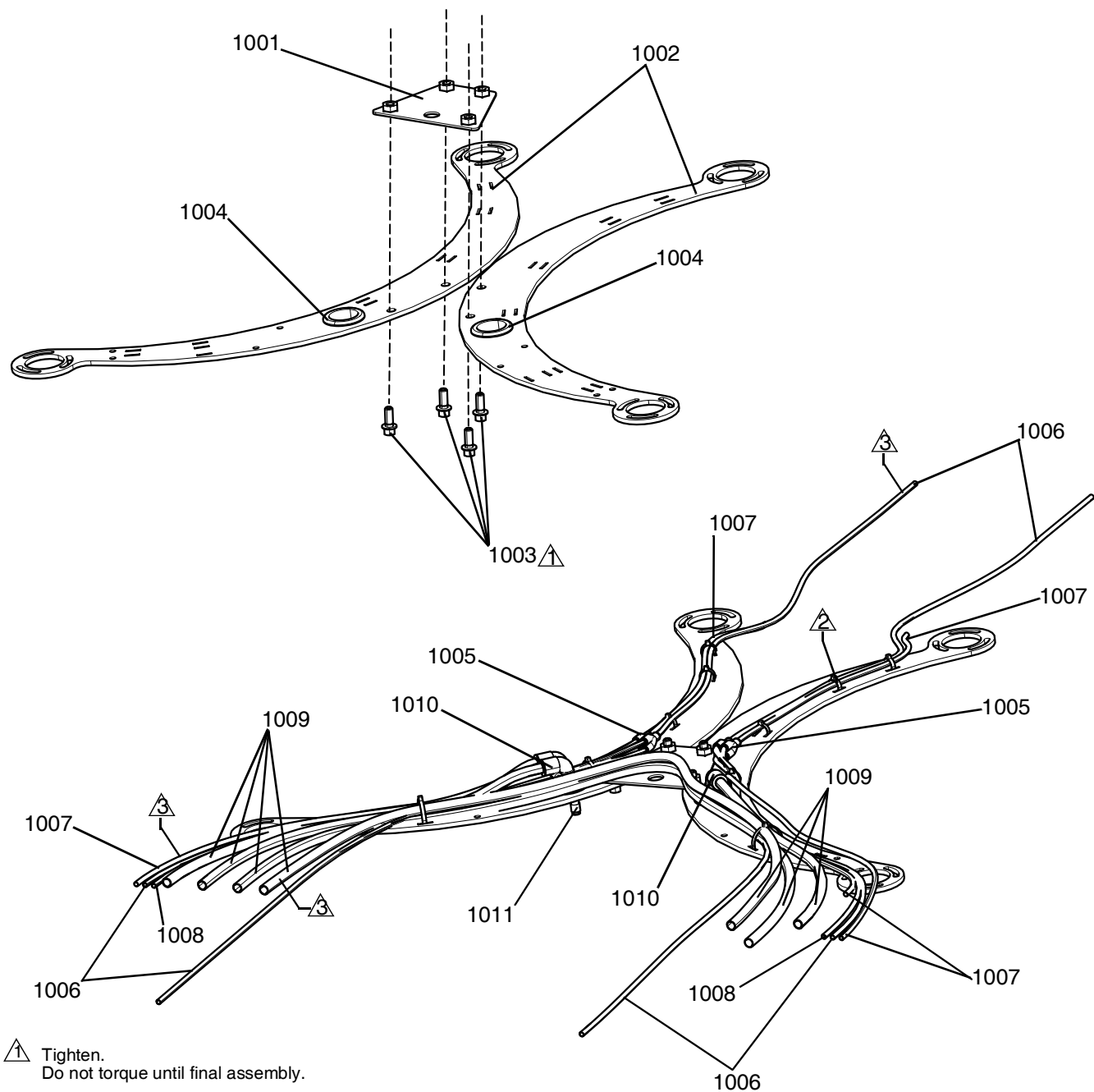
| Ref | Part    | Description                       | Quantity |
|-----|---------|-----------------------------------|----------|
| 900 | 24X174  | RAM,TUBE,ASSY,5.5 ID,WHITE        | 1        |
| 901 | 17C775  | CAP,AIR CYLINDER,5.5 ID           | 1        |
| 902 | ---❖    | BEARING,RAM END CAP               | 1        |
| 903 | 15F453❖ | RETAINER,RETAINING RING 1.88 BORE | 1        |
| 904 | ---❖    | PACKING,O-RING                    | 1        |
| 905 | 167651  | ROD,PISTON RAM                    | 1        |
| 906 | ---❖    | O-RING                            | 2        |
| 907 | 17C774  | PISTON,AIR CYLINDER,5.5 ID        | 1        |
| 909 | ---❖    | PACKING,O-RING                    | 1        |
| 910 | 128057  | WASHER,FLAT,7/8,USS,CS,ZINC PLT   | 2        |
| 911 | 101535  | NUT,FULL HEX                      | 1        |
| 912 | 160138  | SPRING,COMPRESSION                | 1        |
| 913 | 128041  | RING,RETAINING,ID,5.625           | 1        |
| 914 | 16M106* | LUBRICANT                         | 1        |

--- Not available for individual sale.

❖ Parts are available in kit 25A198.

\* Not shown.

## F4-55 and 55-5 Air Line Bracket Assembly - 25A069



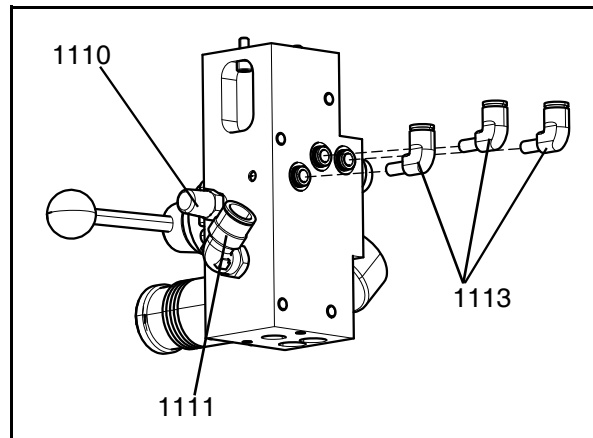
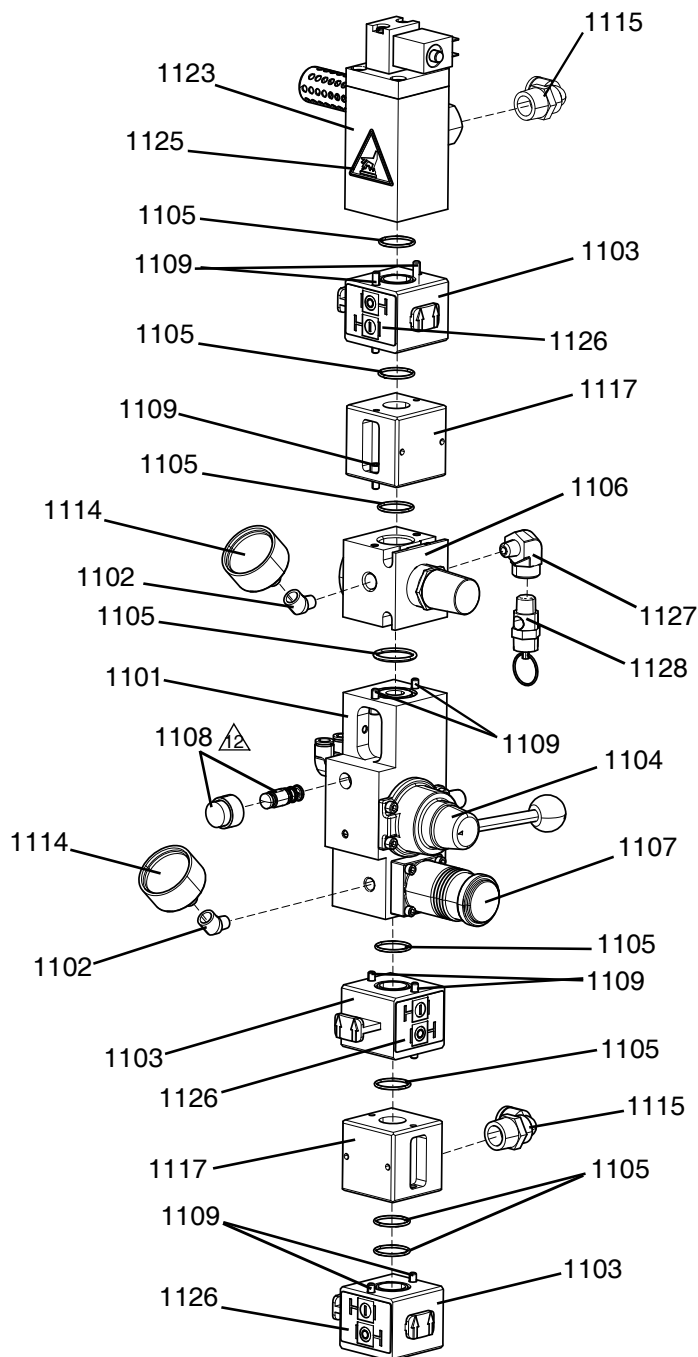
- ① Tighten.  
Do not torque until final assembly.
- ② Route cables through cable ties.
- ③ Apply electrical tape 1 in. from the end to the free end of all tubing.  
A side - use red

**FIG. 15: Air Line Bracket Assembly**

| Ref  | Part          | Description                              | Quantity |
|------|---------------|------------------------------------------|----------|
| 1001 | 24X196        | PLATE, joining, assy, white              | 1        |
| 1002 | 24X177        | SUPPORT, ram, large, white               | 2        |
| 1003 | 127048        | SCREW, mach, hex, flange, m 10 x 1.5 x 2 | 4        |
| 1004 | 128214        | GROMMET, rubber, 1.5 id, 1.75 od, .25 tk | 2        |
| 1005 | 115287        | FITTING, y tube                          | 4        |
| 1006 | 61/2904-BK/11 | HOSE, .160 id x .250 od, pu, 95 dur      | 27.4 ft  |
| 1007 | 61/2904-BU/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur,   | 13.1 ft  |
| 1008 | 61/2904-RD/11 | TUBE, 0.160 id x 0.250 od, pu, 95 dur,   | 2.2 ft   |
| 1009 | 61/2908-BK/11 | TUBE, 0.320 id x 0.500 od, pu, 95 dur,   | 18.6 ft  |
| 1010 | 128262        | FITTING, elbow, 90, 1/2 in. tube, fxf    | 2        |
| 1011 | 123789        | COUPLER, 1/4 in. od tubing               | 2        |

# Common Parts

## Main Integrated Air Control - 24X187



5. Apply sealant to all threaded fasteners.
  6. Apply sealant to all assembled pipe threads.
  7. Apply lubricant to all o-rings.
-  Apply sealant to the threads of the control valve handle and the threads of the valve.

**FIG. 16: Main Integrated Air Control**

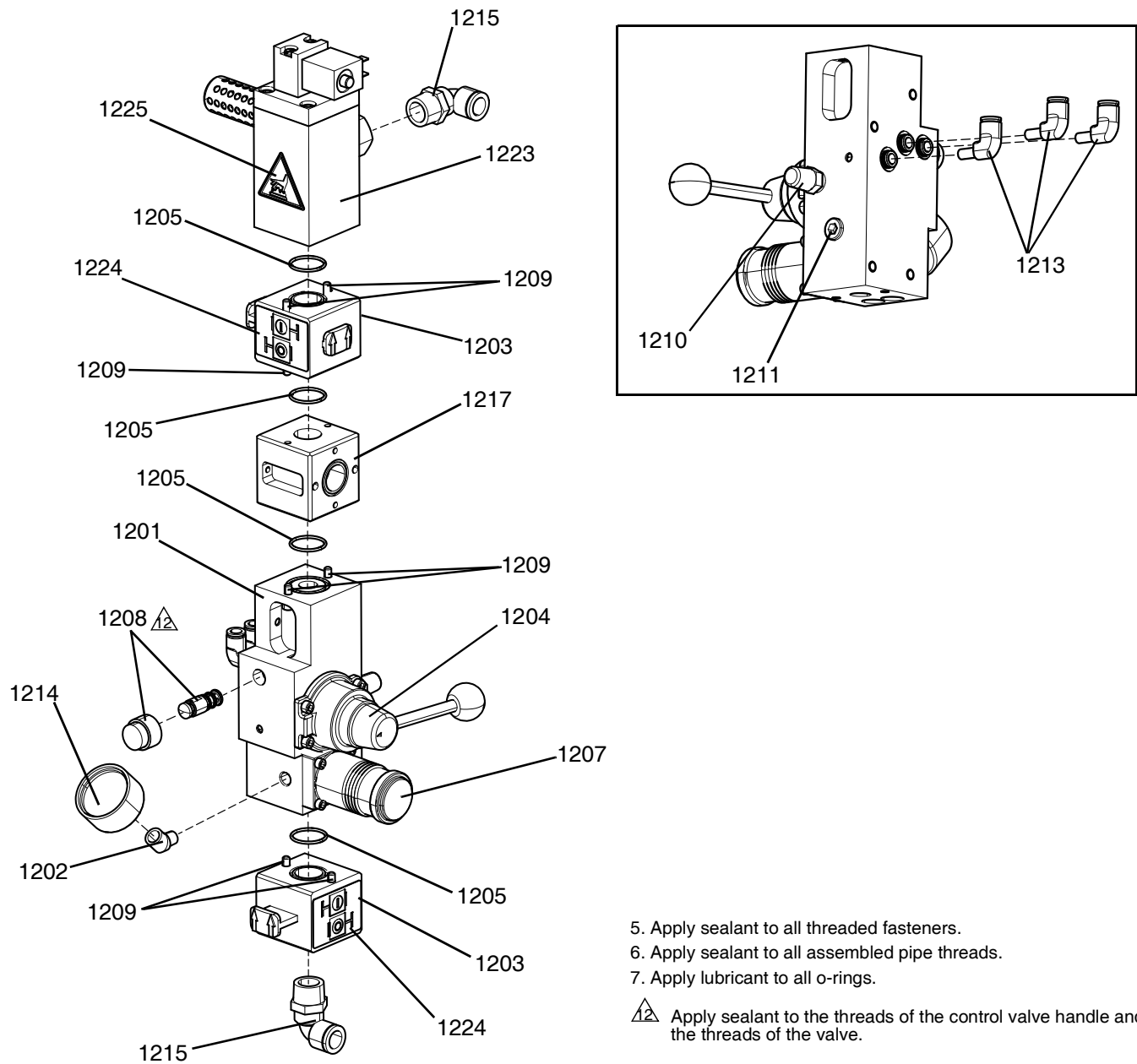
| Ref  | Part    | Description                         | Quantity |
|------|---------|-------------------------------------|----------|
| 1101 | ---     | MANIFOLD, ram, air, 1/2             | 1        |
| 1102 | 113630  | ELBOW, street 45 degree 1/8 npt     | 2        |
| 1103 | 121793  | VALVE, shut-off, modular, 1/2 npt   | 3        |
| 1104 | 121107  | VALVE, control                      | 1        |
| 1105 | 102620  | PACKING, o-ring                     | 8        |
| 1106 | 257614  | REGULATOR, modular, 1/2 npt         | 1        |
| 1107 | 121106  | REGULATOR, manifold mounting        | 1        |
| 1108 | 121109  | VALVE, blow-off                     | 1        |
| 1109 | 120039  | FASTENER, shcs, 10-32 x .5          | 16       |
| 1110 | 517449  | MUFFLER, sintered, 1/4 npt          | 1        |
| 1111 | 114128  | FITTING, elbow, male, swivel        | 1        |
| 1113 | 132848  | FITTING, elbow, plug in             | 3        |
| 1114 | 113911  | GAUGE, pressure, air                | 2        |
| 1115 | 15V204  | FITTING, elbow, 1/2 npt x 1/2 tube  | 2        |
| 1117 | 17D478  | BLOCK, supply, air, 1/2 in.         | 2        |
| 1123 | 121948  | SOLENOID, air motor, small          | 1        |
| 1125 | 189285▲ | LABEL, caution                      | 1        |
| 1126 | 15V954  | LABEL, valve, shutoff, air control  | 2        |
| 1127 | 121150  | FITTING, elbow, 1/4 fnpt x 1/8 mnpt | 1        |
| 1128 | 116643  | VALVE, safety, relief, air          | 1        |

--- Not available for individual sale.

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

Refer to Air Controls Instructions - Parts manual 312374 for more information.

## Secondary Integrated Air Control - 24X286



**FIG. 17: Secondary Integrated Air Control**

| Ref  | Part    | Description                        | Quantity |
|------|---------|------------------------------------|----------|
| 1201 | ---     | MANIFOLD, ram, air, 1/2            | 1        |
| 1202 | 113630  | ELBOW, street 45 degree 1/8 npt    | 1        |
| 1203 | 121793  | VALVE, shut-off, modular, 1/2 npt  | 2        |
| 1204 | 121107  | VALVE, control                     | 1        |
| 1205 | 102620  | PACKING, o-ring                    | 3        |
| 1207 | 121106  | REGULATOR, manifold mounting       | 1        |
| 1208 | 121109  | VALVE, blow-off                    | 1        |
| 1209 | 120039  | FASTENER, shcs, 10-32 x .5         | 10       |
| 1210 | 517449  | MUFFLER, sintered, 1/4 npt         | 1        |
| 1211 | 100721  | PLUG, pipe                         | 1        |
| 1213 | 132848  | FITTING, elbow, plug in            | 3        |
| 1214 | 113911  | GAUGE, pressure, air               | 1        |
| 1215 | 15V204  | FITTING, elbow, 1/2 npt x 1/2 tube | 2        |
| 1217 | 17D478  | BLOCK, supply, air, 1/2 in.        | 1        |
| 1223 | 121948  | SOLENOID, air motor, small         | 1        |
| 1224 | 15V954  | LABEL, valve, shutoff, air control | 1        |
| 1225 | 189285▲ | LABEL, caution                     | 1        |

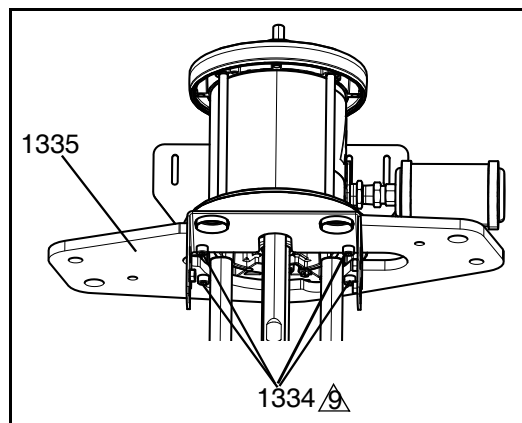
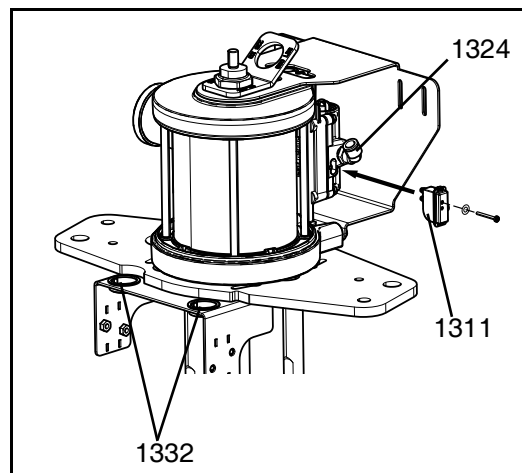
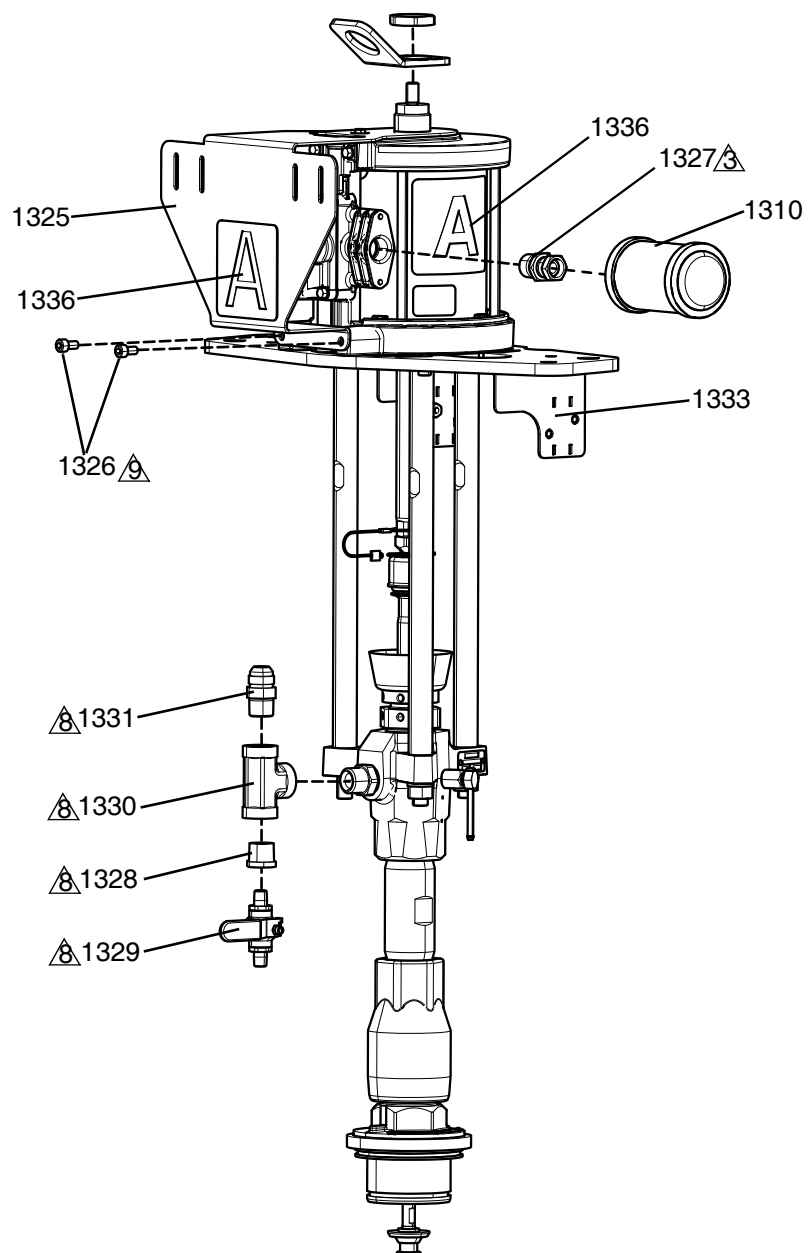
--- Not available for individual sale.

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

Refer to Air Controls Instructions - Parts manual 312374 for more information.

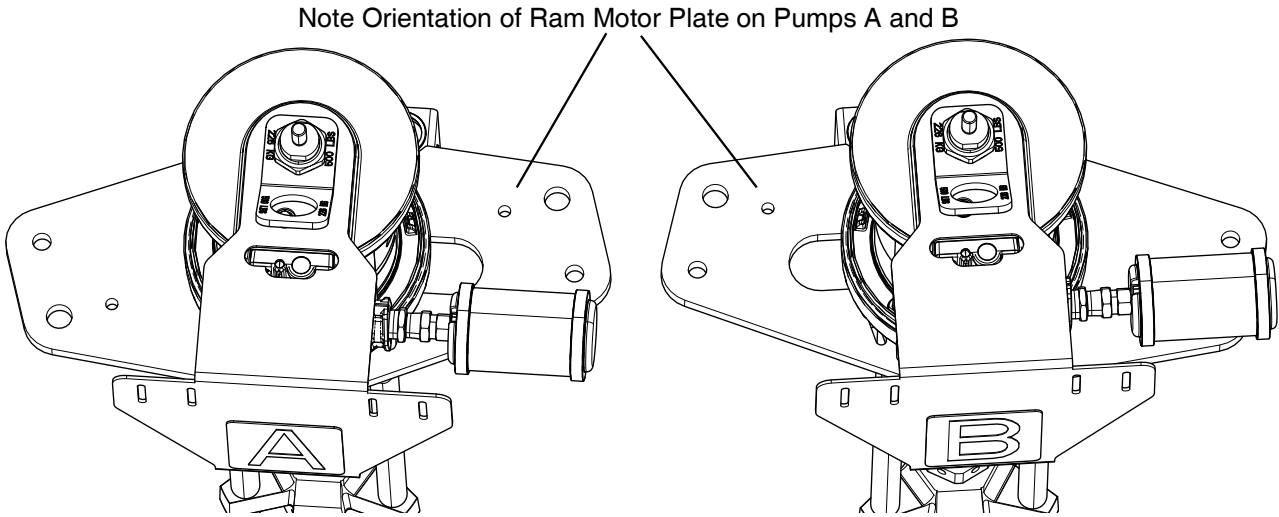
## A and B Pump Assemblies

**NOTE:** The A pump and B pump use the same parts. The following drawings are of the A pump except where required to show the B pump. The call-outs represent the part locations for both pumps. The pump assembly kit 25A158 is included here and the appropriate call-outs are shown on the kit.



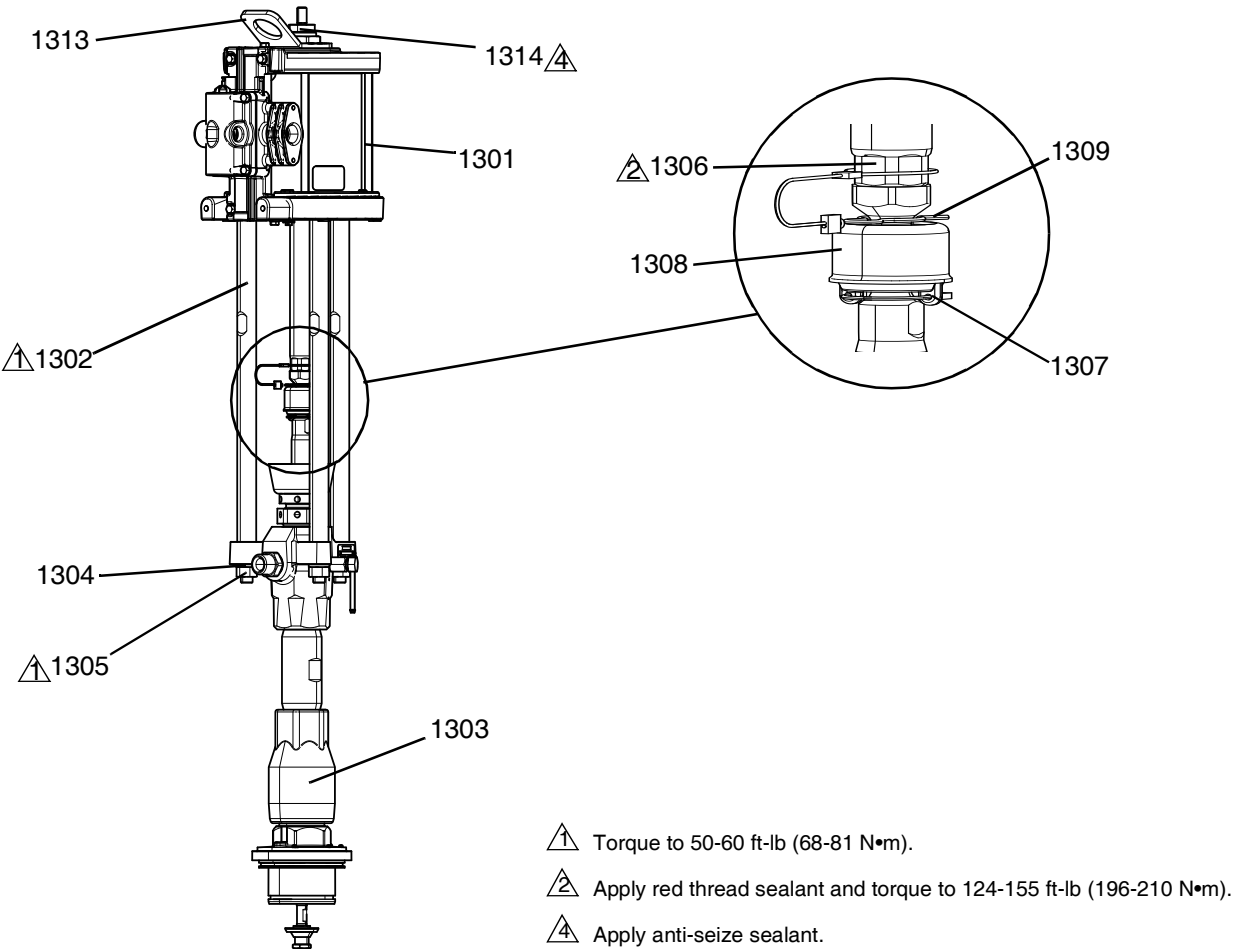
-  Apply sealant.
-  Apply sealant tape
-  Apply blue thread sealant.

**FIG. 18: A and B Pump Assembly**



**FIG. 19: A and B Pump Plate Alignment**

**Pump Assembly Kit - 25A158**



**FIG. 20: Pump Assembly Kit**

| Ref  | Part     | Description                              | Quantity |
|------|----------|------------------------------------------|----------|
| 1301 | 24W754❖  | MOTOR, air, 6.0 in, 4.75 strk, blue      | 1        |
| 1302 | 257360❖  | ROD, tie, nxt to cm lower                | 3        |
| 1303 | L100SS❖† | LOWER, ss100, severe duty, sst           | 1        |
| 1304 | 108098❖  | WASHER, lock, spring                     | 3        |
| 1305 | 106166❖  | NUT, mach, hex                           | 3        |
| 1306 | 15H392❖  | ROD, adapter xtreme                      | 1        |
| 1307 | 244819❖  | COUPLING, assembly, 145-290 xtreme       | 1        |
| 1308 | 197340❖  | COVER, coupler                           | 1        |
| 1309 | 244820❖  | CLIP, hairpin (w/ lanyard)               | 1        |
| 1310 | 117237   | MUFFLER                                  | 1        |
| 1311 | 24R885◆  | SWITCH, reed, assy                       | 1        |
| 1313 | 15J993❖  | RING, lift, plate                        | 1        |
| 1314 | 188784❖  | NUT, jam, hex                            | 1        |
| 1321 | 112887*  | TOOL, wrench, spanner                    | 1        |
| 1324 | 15V204   | FITTING, elbow, 1/2 npt x 1/2 tube       | 1        |
| 1325 | 24X146   | BRACKET, valve, xm, flow meter, paint    | 1        |
| 1326 | 115264   | SCREW, cap, socket head                  | 2        |
| 1327 | 121282   | FITTING, swivel, straight, 1/2 f x 3/4 m | 1        |
| 1328 | 15M861   | FITTING, reducer, pipe, 3/4 x 1/4 sst    | 1        |
| 1329 | 239018   | VALVE, ball, sst                         | 1        |
| 1330 | 113833   | TEE, pipe, female                        | 1        |
| 1331 | 15M863   | FITTING, connector, male                 | 1        |
| 1332 | 123589   | BUSHING, wire protector, snap-in         | 2        |
| 1333 | 24X241   | BRACKET, cable carrier, assy, white      | 1        |
| 1334 | 109114   | SCREW, cap, sch                          | 4        |
| 1335 | 24W794   | PLATE, motor, ram, 3.0", 5 gal, white    | 1        |
| 1336 | 15G476   | LABEL, a-b identification                | 0.5      |

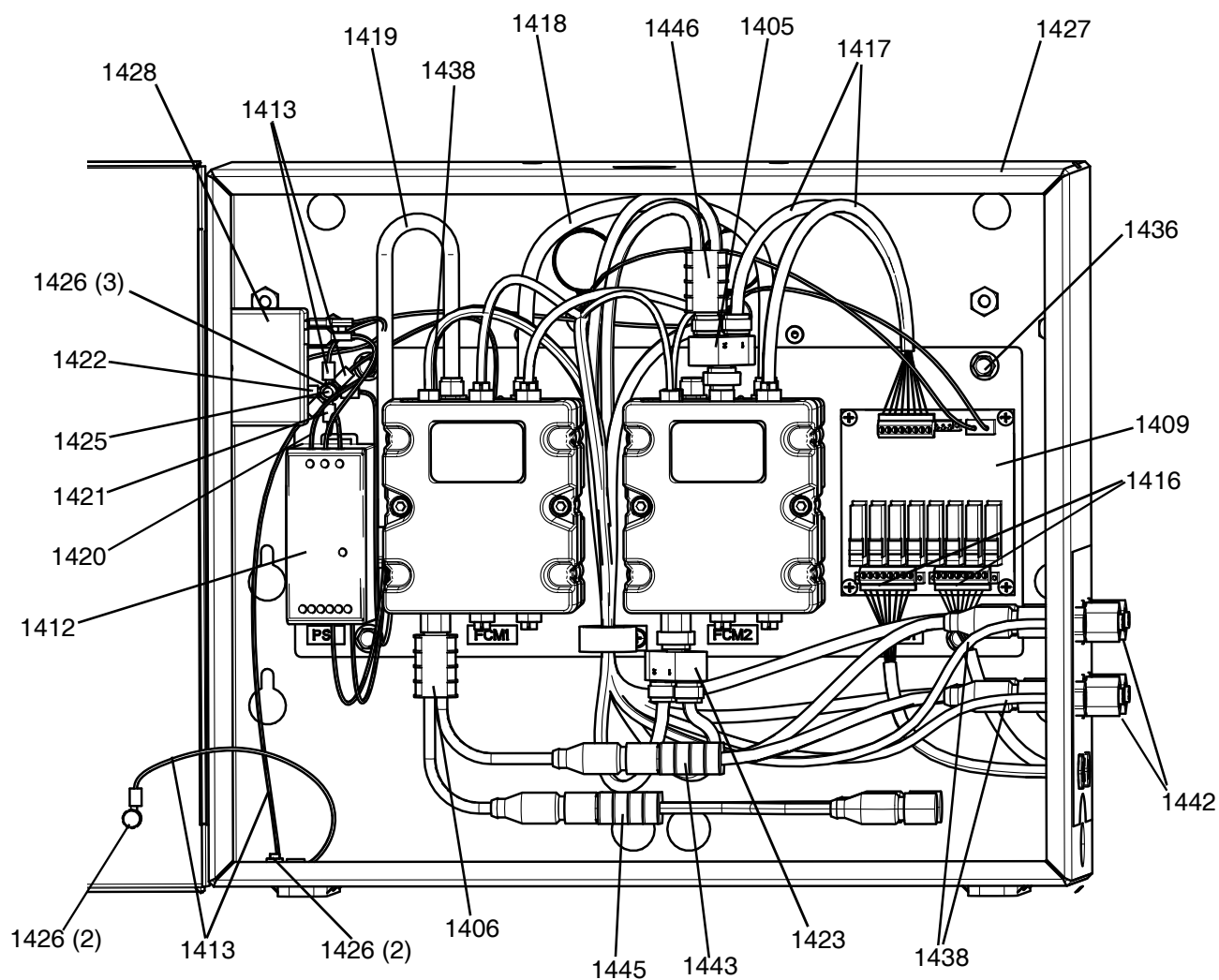
\* Not shown.

† Refer to specific component manual for more details.

❖ Parts are available in kit 25A158.

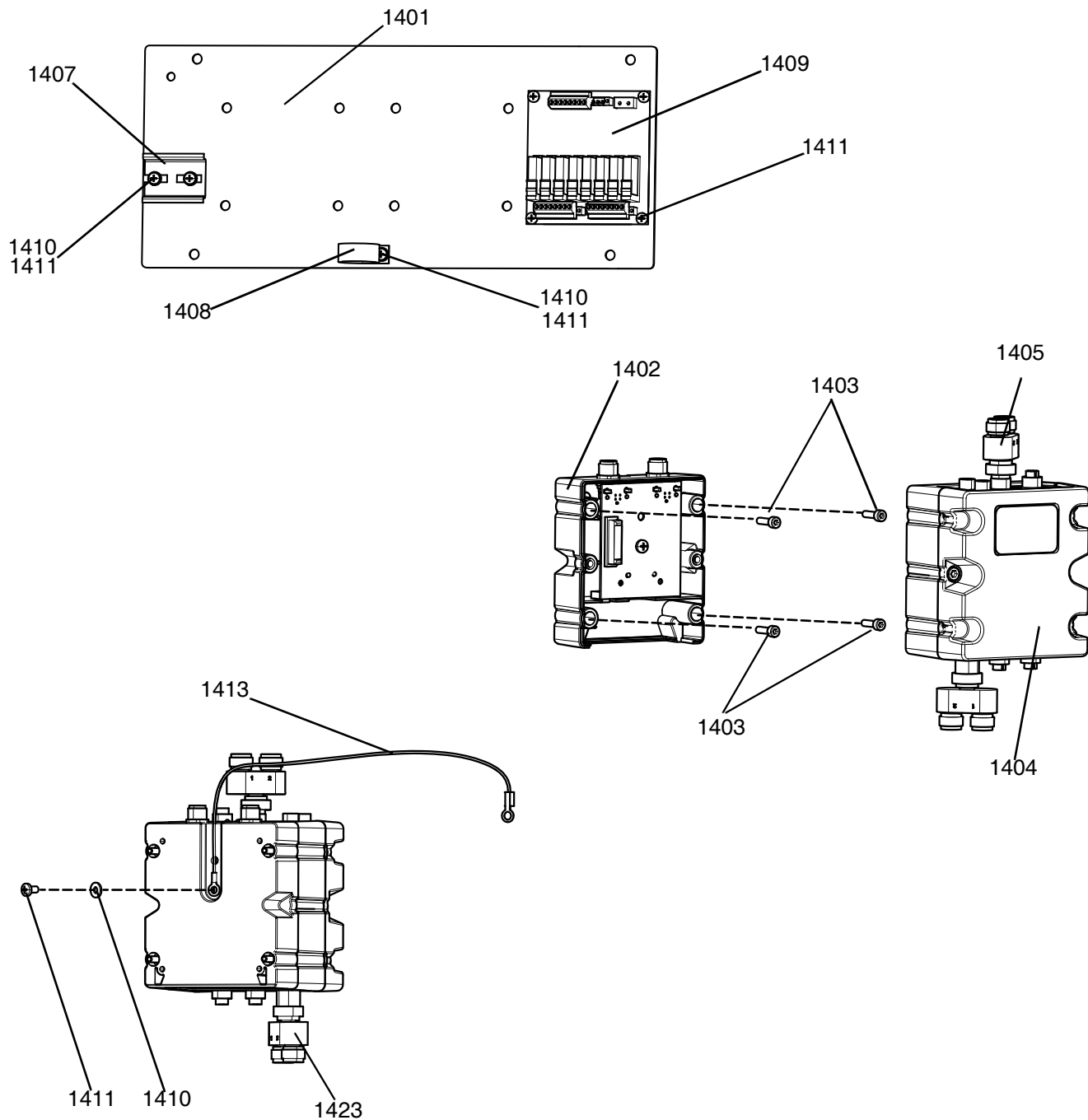
◆ Parts are available in kit 24R885.

## Electronic Enclosure (Control Module) - 24X186



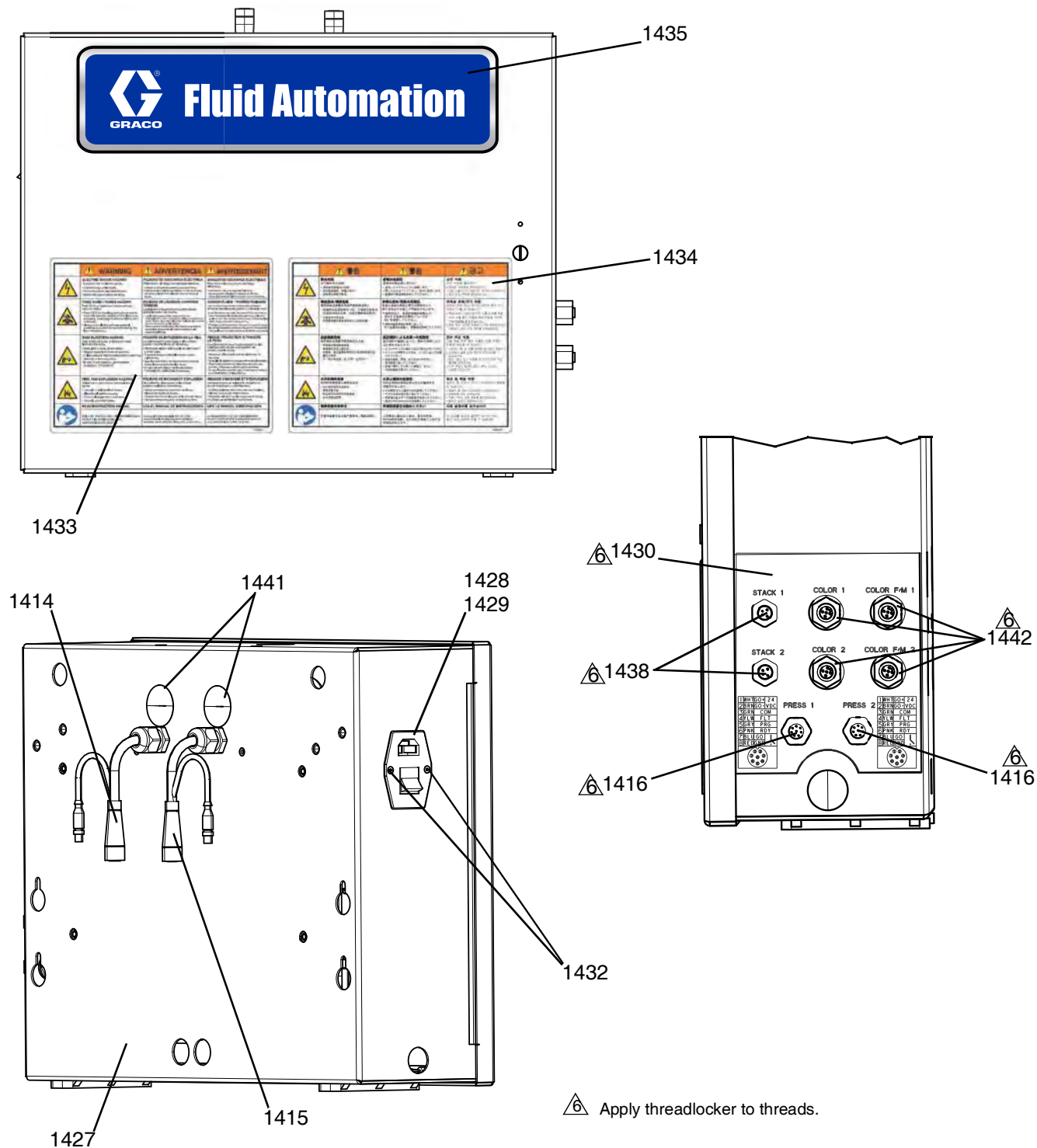
**FIG. 21: Electronic Enclosure - Interior**

Figure 15 shows parts for the electronic enclosure's control panel and fluid control modules (FCMs)



**FIG. 22: Electronic Enclosure - Interior Components**

Figure 16 shows exterior views of the electronic enclosure including the front, the side with cable connections, and the rear and side with power switch and connection.



**FIG. 23: Electronic Enclosure - Exterior**

| Ref  | Part    | Description                               | Quantity |
|------|---------|-------------------------------------------|----------|
| 1401 | ---     | PANEL, electrical, control                | 1        |
| 1402 | 289697  | MODULE, gca, cube, base                   | 2        |
| 1403 | ---     | SCREW, cap, socket head                   | 8        |
| 1404 | 289696  | MODULE, gca, cube, fcm                    | 2        |
| 1405 | 126520  | CONNECTOR, splitter, m 12, 5 p            | 1        |
| 1406 | ---     | CABLE, gca, splitter, m 12 x m 12(2)      | 1        |
| 1407 | ---     | RAIL, din, cut                            | 1        |
| 1408 | ---     | STRAP, wire, 1"                           | 1        |
| 1409 | 25A072❖ | MODULE, gca, lsr relay                    | 1        |
| 1410 | ---     | WASHER, plain                             | 5        |
| 1411 | ---     | SCREW, mach, phil pan hd                  | 9        |
| 1412 | 126453  | POWER SUPPLY, 24v                         | 1        |
| 1413 | ---     | WIRE, grounding, door                     | 4        |
| 1414 | ---     | CABLE, gca, sig, assy, red side           | 1        |
| 1415 | ---     | CABLE, gca, sig, assy, blue side          | 1        |
| 1416 | ---     | CABLE, gca, bulkhead, m 12                | 2        |
| 1417 | ---     | CABLE, gca,                               | 1        |
| 1418 | ---     | CABLE, can, female / female 0.5 m         | 1        |
| 1419 | 17E221  | CABLE, gca, can, m 12, 5 p, f             | 1        |
| 1420 | ---     | HARNESS, sing, 16 ga, blk, 7", f/fs       | 2        |
| 1421 | ---     | HARNESS, sing, 16 ga, grn/ylw, 7", r/fs   | 1        |
| 1422 | ---     | HARNESS, sing, 16 ga, grn/ylw, 8", f/r    | 1        |
| 1423 | ---     | CONNECTOR, splitter, m 12, 8 p            | 1        |
| 1425 | 121013  | SCREW, shcs, sst, m 5 x 25 mm             | 1        |
| 1426 | 120993  | NUT, hex, m 5, with tooth washer          | 7        |
| 1427 | ---     | ENCLOSURE, controls, white                | 1        |
| 1428 | 120910  | SOCKET, electrical, w/emi filter          | 1        |
| 1429 | 114835  | FUSE, 4.0 amp, 250 v, time lag            | 1        |
| 1430 | ---     | LABEL,                                    | 1        |
| 1432 | 120916  | SCREW                                     | 2        |
| 1433 | 15G280▲ | LABEL, safety, warning, multiple          | 1        |
| 1434 | 16X831▲ | LABEL, safety                             | 1        |
| 1435 | ---     | LABEL, identification                     | 1        |
| 1436 | ---     | SCREW, mach, hex, flange, m 6 x 1 x 10 mm | 4        |
| 1438 | ---     | CABLE, gca, m 8, 4 pin, f x m 8, 4 pin, m | 2        |
| 1441 | ---     | PLUG, hole, 1.250"                        | 2        |
| 1442 | ---     | CONNECTOR, thru, m 12, m x f              | 4        |
| 1443 | ---     | CABLE, gca, splitter, m 12, 8 pin, m      | 1        |
| 1445 | ---     | CABLE, gca, splitter, m 12, 8pin, m       | 1        |
| 1446 | ---     | HARNESS, splitter, m 12                   | 1        |
| 1447 | ---     | LABEL, etl, ul 508 a (not shown)          | 1        |

--- Not available for individual sale.

\* Not shown.

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

❖ Replacement relays are available in kit 128452.

## Hoses

| Part No. | Description               | Length<br>in. (cm) | Hose<br>Connection | Material Component |
|----------|---------------------------|--------------------|--------------------|--------------------|
| 24R213   | Hose, Assy, 1/2 x 120, SS | 120 (305)          | JIC-8              | A                  |
| 24R214   | Hose, Assy, 1/2 x 156, SS | 156 (396)          | JIC-8              |                    |
| 24R215   | Hose, Assy, 1/2 x 197, SS | 197 (500)          | JIC-8              |                    |
| 24R216   | Hose, Assy, 3/4 x 120, SS | 120 (305)          | JIC-12             |                    |
| 24R217   | Hose, Assy, 3/4 x 156, SS | 156 (396)          | JIC-12             |                    |
| 24R218   | Hose, Assy, 3/4 x 197, SS | 197 (500)          | JIC-12             |                    |
| 16U732   | Hose, Assy, 1/2 x 120, SS | 120 (305)          | JIC-8              | B                  |
| 16U733   | Hose, Assy, 1/2 x 156, SS | 156 (396)          | JIC-8              |                    |
| 16U734   | Hose, Assy, 1/2 x 197, SS | 197 (500)          | JIC-8              |                    |
| 16U736   | Hose, Assy, 3/4 x 120, SS | 120 (305)          | JIC-12             |                    |
| 16U737   | Hose, Assy, 3/4 x 156, SS | 156 (396)          | JIC-12             |                    |
| 16U738   | Hose, Assy, 3/4 x 197, SS | 197 (500)          | JIC-12             |                    |
| 16U721   | Hose, Assy, 3/8 x 72, SS  | 72 (183)           | JIC-6              | Color Hoses        |
| 16U447   | Hose, Assy, 3/8 x 120, SS | 120 (305)          | JIC-6              |                    |
| 16U448   | Hose, Assy, 3/8 x 138, SS | 138 (351)          | JIC-6              |                    |
| 16U449   | Hose, Assy, 3/8 x 156, SS | 156 (396)          | JIC-6              |                    |
| 16U450   | Hose, Assy, 3/8 x 197, SS | 197 (500)          | JIC-6              |                    |
| 16V116   | Hose, Assy, 3/8 x 236, SS | 236 (599)          | JIC-6              |                    |
| 16V117   | Hose, Assy, 3/8 x 275, SS | 275 (699)          | JIC-6              |                    |

## California Proposition 65

### CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm – [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

# Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

**THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

**GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.** These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

## **FOR GRACO CANADA CUSTOMERS**

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présent document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

# Graco Information

## Sealant and Adhesive Dispensing Equipment

For the latest information about Graco products, visit [www.graco.com](http://www.graco.com).

For patent information, see [www.graco.com/patents](http://www.graco.com/patents).

**TO PLACE AN ORDER**, contact your Graco distributor, go to [www.graco.com](http://www.graco.com), or call to identify the nearest distributor.

**If calling from the USA:** 1-800-746-1334

**If calling from outside the USA:** 0-1-330-966-3000

*All written and visual data contained in this document reflects the latest product information available at the time of publication.  
Graco reserves the right to make changes at any time without notice.*

Original instructions. This manual contains English. MM 335029

**Graco Headquarters:** Minneapolis

**International Offices:** Belgium, China, Japan, Korea

**GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA**

**Copyright 2016, Graco Inc. All Graco manufacturing locations are registered to ISO 9001.**

[www.graco.com](http://www.graco.com)

Revision H, September 2021