



## **PARTS MANUAL**

### **COMPRESSOR MODEL**

**HP-1300-W-CU HP-1600-W-CU**

**CODE : D & E**



P.O. Box 868 - 501 Sanford Ave  
Mocksville, N.C. 27028

Book 22523831 (02/07)  
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## Parts Ordering



## Parts Ordering

### General

This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. Always insist on genuine Ingersoll-Rand Company parts for your compressor.

## NOTICE

**Ingersoll-Rand Company can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.**

Ingersoll-Rand Company service facilities and parts are available worldwide. Consult local yellow pages or visit: [www.portablepower.irco.com](http://www.portablepower.irco.com).

Special order parts may not be included in this manual. Contact the Mocksville Parts Department with the unit serial number for assistance with these special parts.

### Description

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

In referring to the rear, the front or to either side of the unit, always consider the **drawbar end** of the unit as the **front**. Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

### Fasteners

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

### How to Order

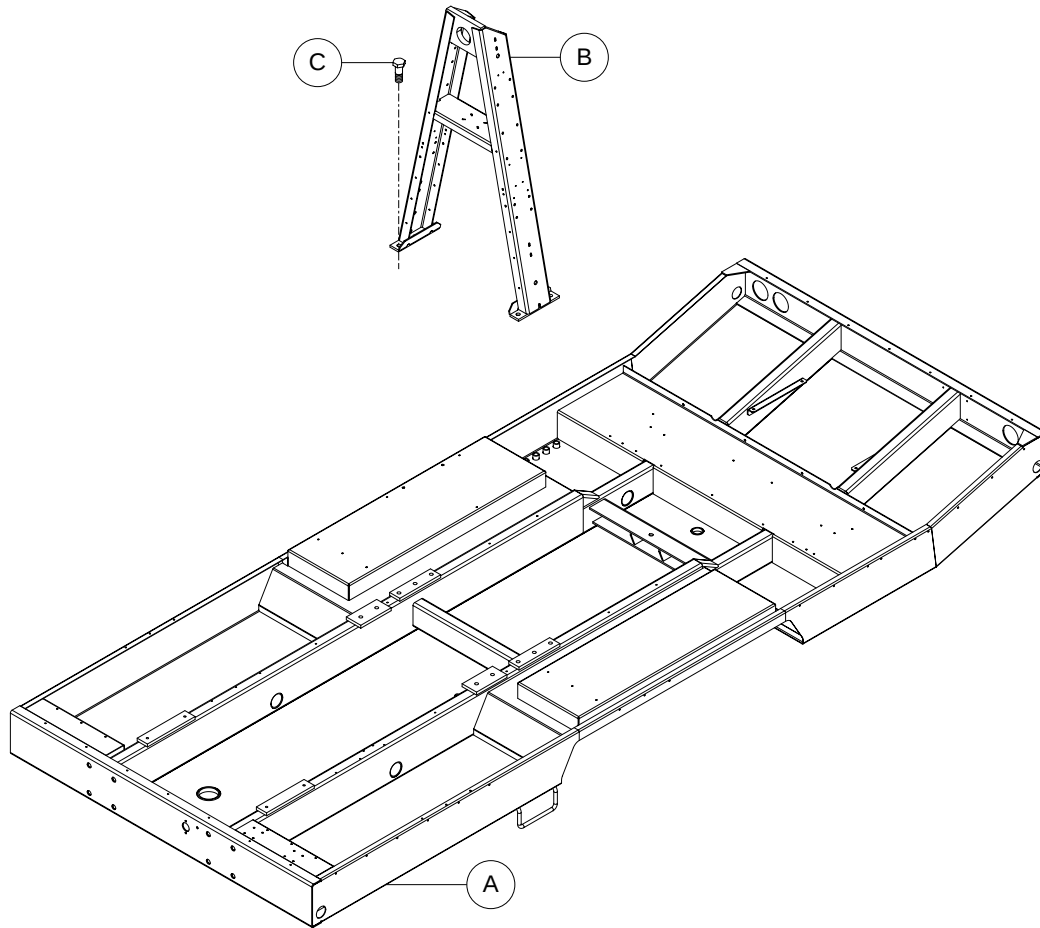
Always specify the model and serial number of the unit.

Specify the part number and description.

## Parts List

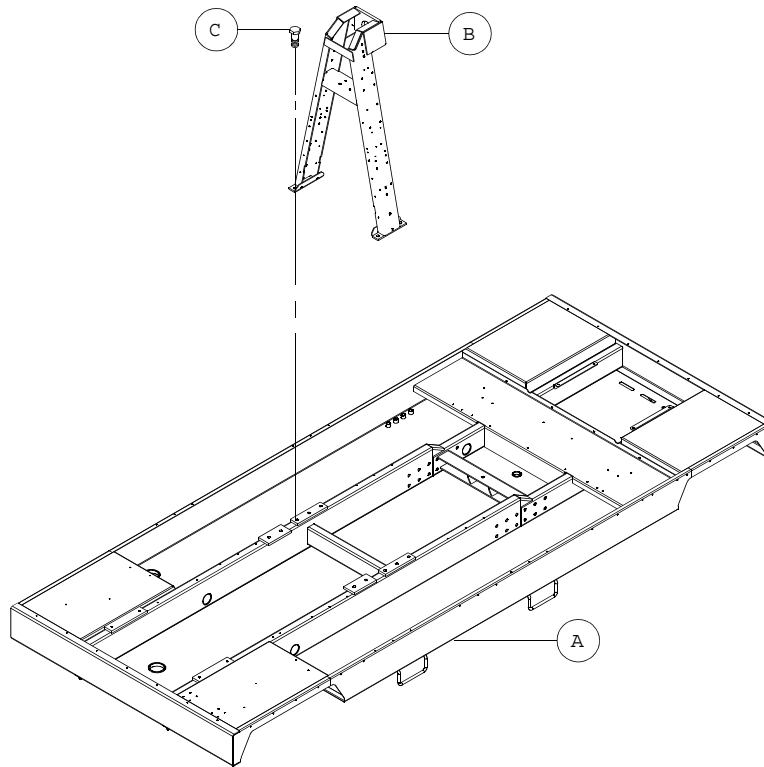


## Fast Track Frame Assembly



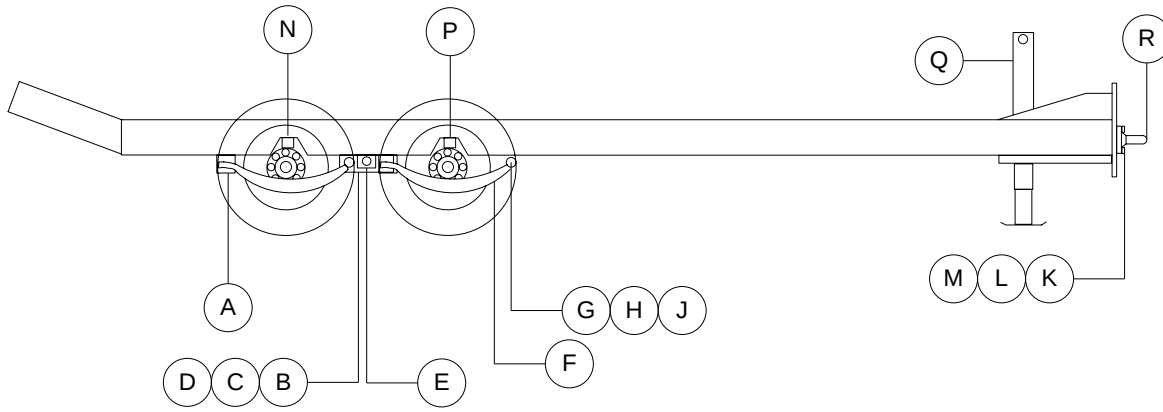
| ITEM | COMM. NO. | DESCRIPTION    | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------|-----|------------------|
| A    | 54760202  | Frame Assembly | 1   |                  |
| B    | 54542543  | Bail, Lifting  | 1   |                  |
| C    | 96720610  | Screw          | 4   |                  |

## Wagon Wheel Frame Assembly



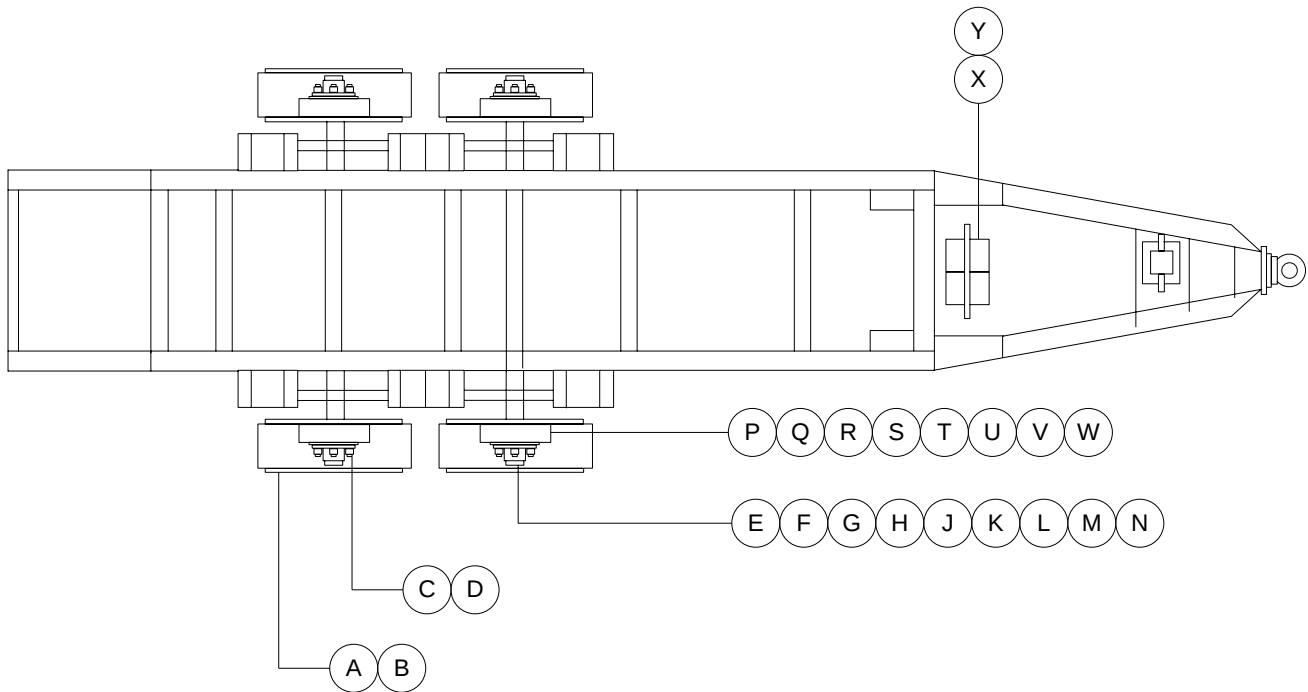
| ITEM | COMM. NO. | DESCRIPTION    | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------|-----|------------------|
| A    | 54501796  | Frame Assembly | 1   |                  |
| B    | 22186845  | Bail, Lifting  | 1   |                  |
| C    | 96720610  | Screw          | 4   |                  |

## High Speed Running Gear



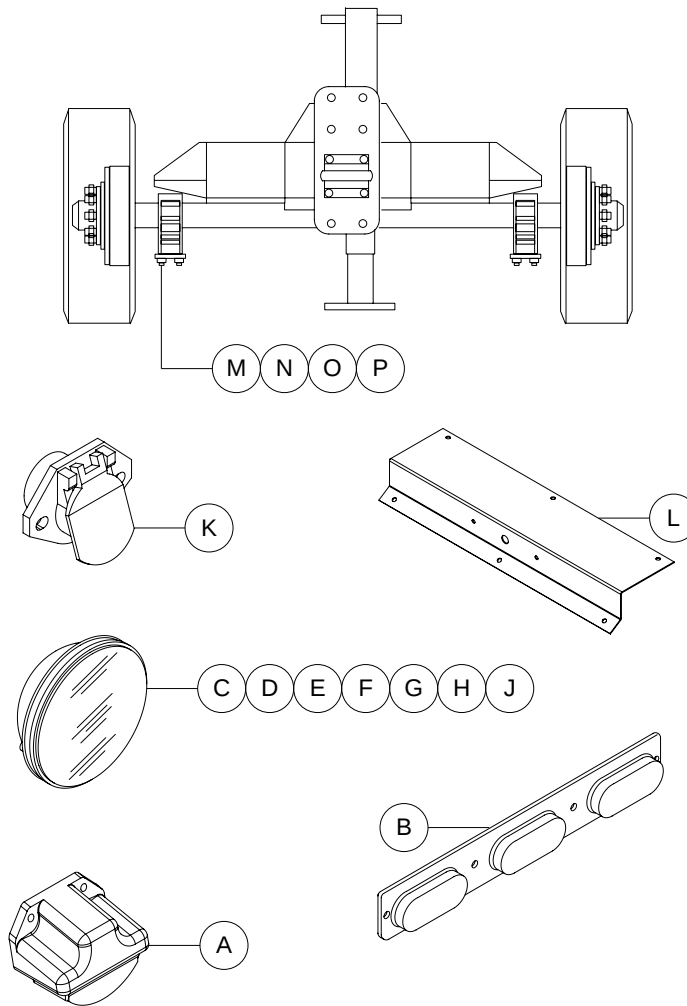
| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------|-----|------------------|
| A    | 36880235  | Hanger, Rear    | 2   |                  |
| B    | 36880219  | Bar, Equalizer  | 2   |                  |
| C    | 36880243  | Bolt, Equalizer | 2   |                  |
| D    | 36880250  | Locknut         | 2   |                  |
| E    | 36880193  | Hanger, Center  | 2   |                  |
| F    | 36880284  | Spring, Leaf    | 4   |                  |
| G    | 36880201  | Hanger, Front   | 2   |                  |
| H    | 36880227  | Bolt, Shackle   | 8   |                  |
| J    | 35336700  | Locknut         | 8   |                  |
| K    | 36880136  | Bolt            | 4   |                  |
| L    | 95935011  | Washer          | 4   |                  |
| M    | 95077608  | Locknut         | 4   |                  |
| N    | 35144336  | Screw           | 8   |                  |
| P    | 36880151  | Bumper, Rubber  | 4   |                  |
| Q    | 36880144  | Jack, Dropleg   | 1   |                  |
| R    | 36880128  | Eye, Pintle     | 1   |                  |

## High Speed Running Gear



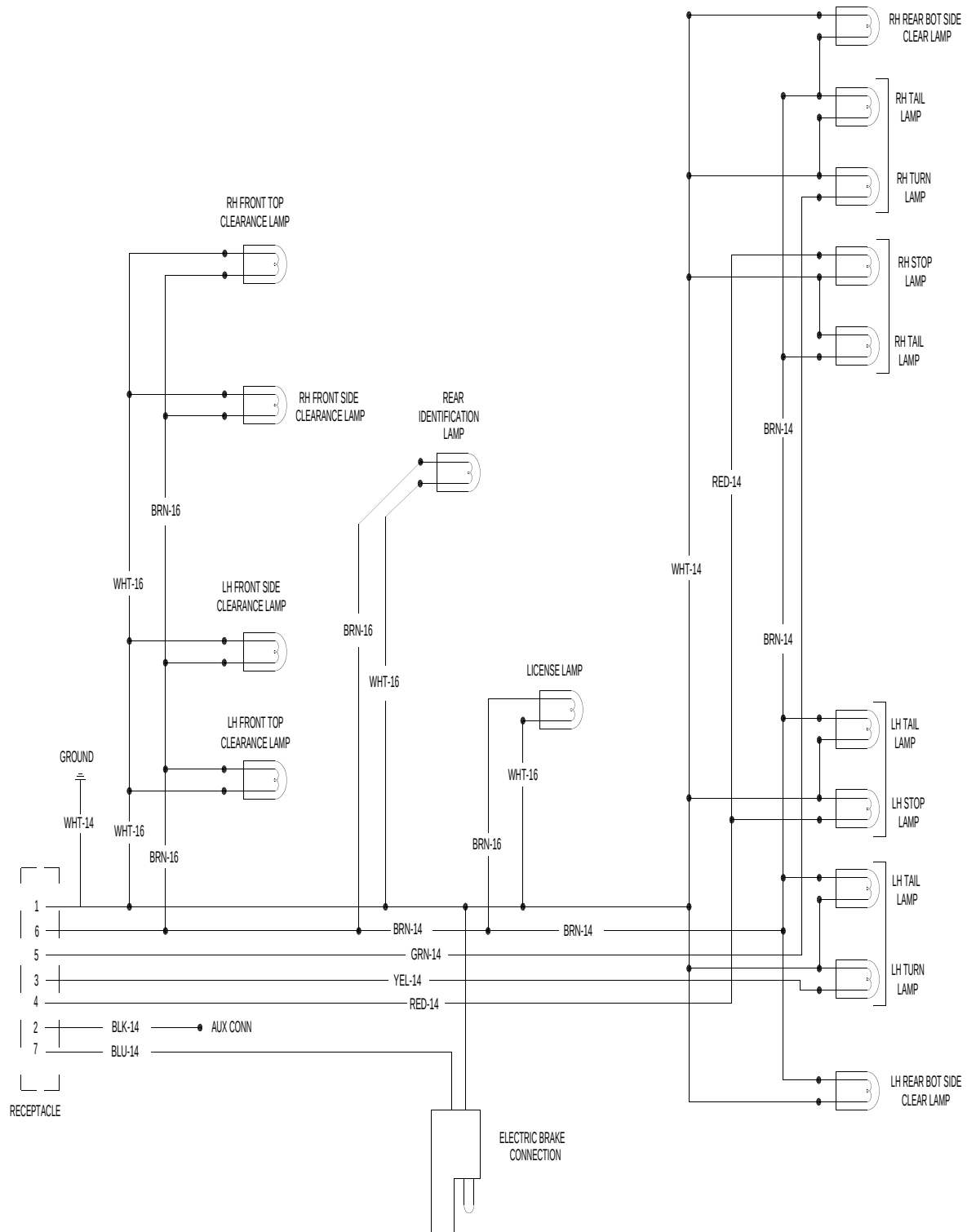
| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 35272150  | Stud                | 8   |                  |
| B    | 36880276  | Nut                 | 8   |                  |
|      | 36853091  | Nut                 | 4   |                  |
| C    | 36853109  | Washer              | 2   |                  |
| D    | 36853117  | Washer, Lock        | 2   |                  |
| E    | 36851624  | Inner Bearing Cup   | 1   |                  |
| F    | 36851616  | Outer Bearing Cup   | 1   |                  |
| G    | 36851608  | Inner Bearing       | 1   |                  |
| H    | 36851590  | Outer Bearing       | 1   |                  |
| J    | 36851632  | Seal                | 1   |                  |
| K    | 36776813  | Cap, Dust           | 8   |                  |
| L    | 36880268  | Hub Assembly        | 4   |                  |
| M    | 36880292  | LH Electric Brake   | 2   |                  |
| N    | 36880300  | RH Electric Brake   | 2   |                  |
| P    | 36880318  | Shield, Bottom Dust | 4   |                  |
| Q    | 36880326  | Shield, Top Dust    | 4   |                  |
| R    | 36880334  | Bolt                | 7   |                  |
| S    | 95939955  | Washer, Lock        | 7   |                  |
| T    | 36880342  | Locknut             | 7   |                  |
| U    | 35603190  | Chock, Wheel        | 2   |                  |
| V    | 35333830  | Strap, Rubber       | 2   |                  |
| W    | 36877991  | Tire                | 4   |                  |
| X    | 22077515  | Wheel               | 4   |                  |
| Y    | 36878049  | Clamp, Plate        | 4   |                  |

## High Speed Running Gear

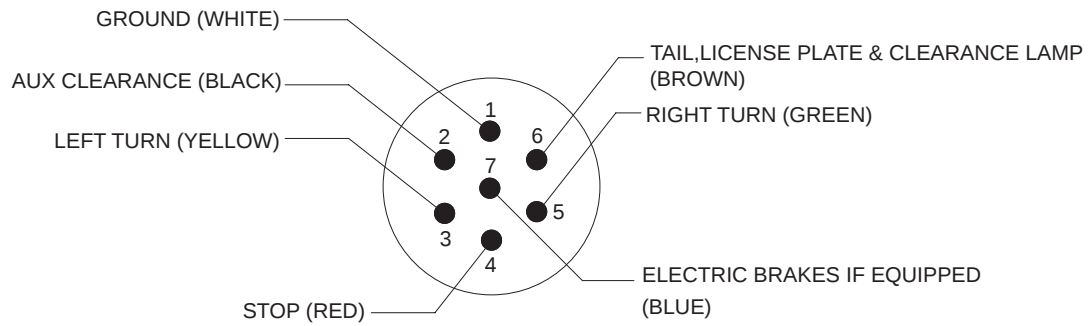


| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| A    | 36895860  | Light, License Plate        | 1   |                  |
| B    | 36922144  | 3 Light Assembly            | 1   |                  |
| C    | 36788081  | Stop, Turn and Tail Light   | 2   |                  |
| D    | 36787968  | Grommet (Use on Item C & E) | 6   |                  |
| E    | 36859320  | Stop, Turn and Tail Light   | 4   |                  |
| F    | 35367051  | Yellow Light                | 4   |                  |
| G    | 36893642  | Grommet (Use on Item F)     | 2   |                  |
| H    | 36893634  | Grommet (Use on Item F)     | 2   |                  |
| J    | 35367044  | Red Clearance Light         | 4   |                  |
| K    | 36894129  | 7-Way Connector             | 1   |                  |
| L    | 36896306  | ID Bracket                  | 1   |                  |
| M    | 36880169  | Plate, U-Bolt               | 2   |                  |
| N    | 36880177  | U-Bolt                      | 4   |                  |
| P    | 36880185  | Nut                         | 8   |                  |
| Q    | 95934741  | Washer, Lock                | 8   |                  |

## Fast Track Wiring



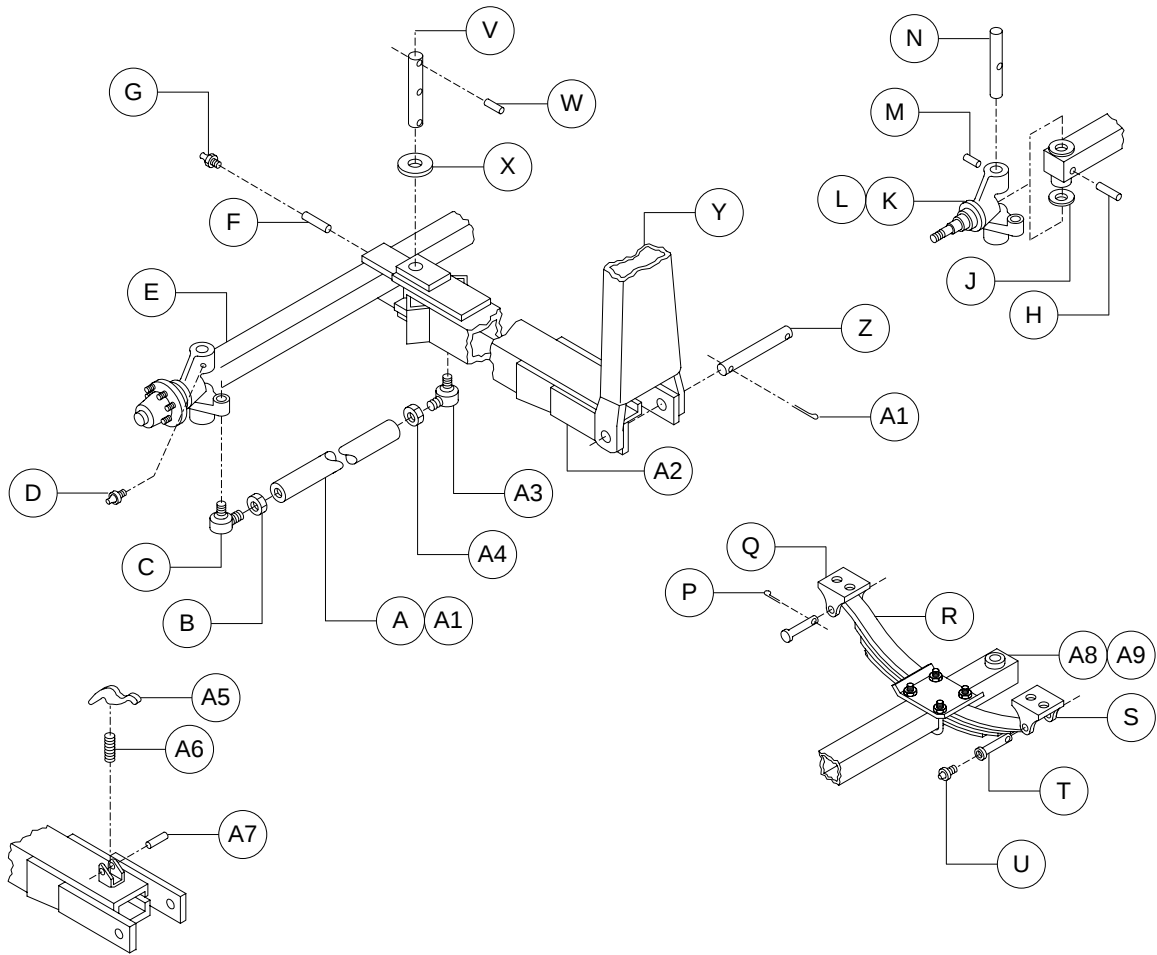
## Fast Track Wiring



STOP, TAIL & TURN LIGHT OPTION  
(AS VIEWED FROM REAR OF SOCKET)

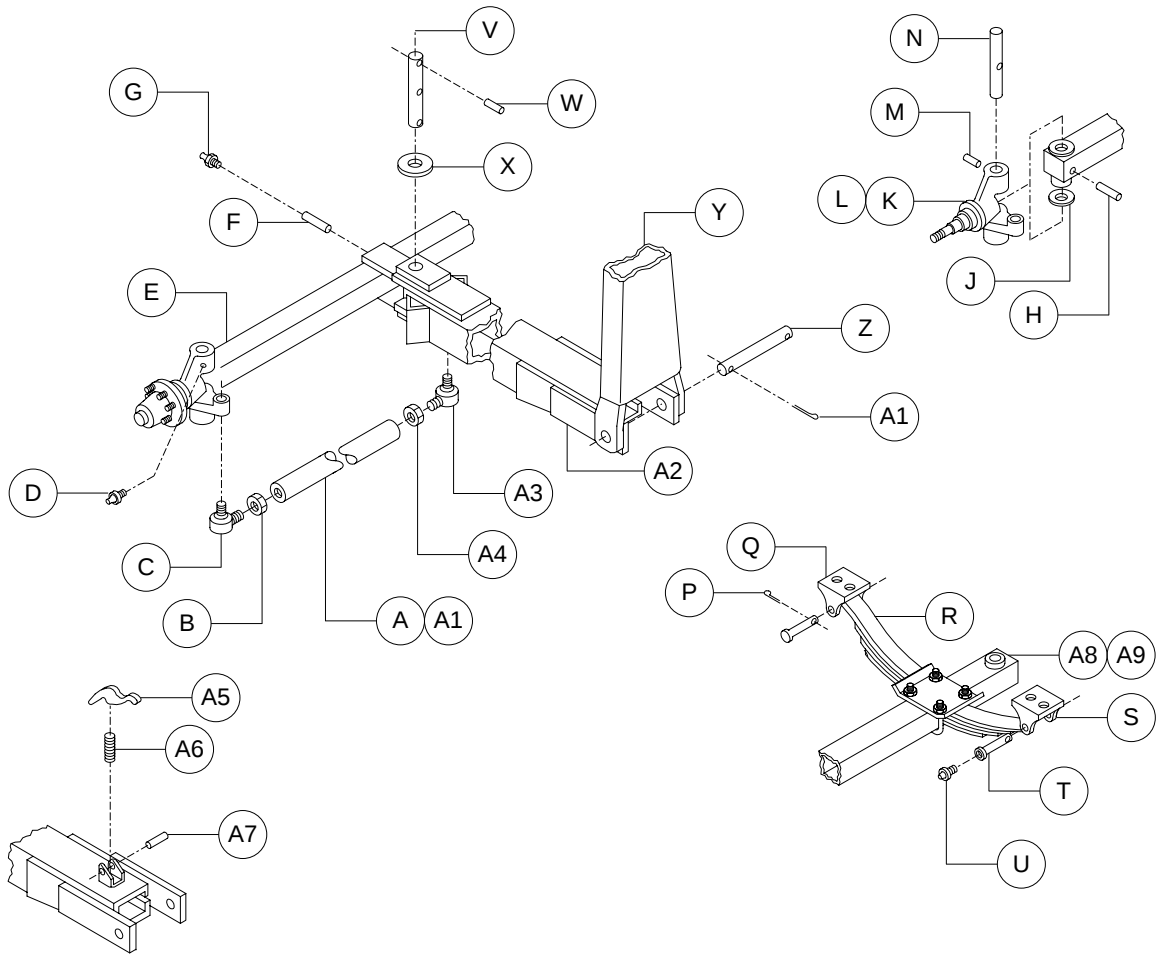
| LIST OF MATERIALS |                             |      |      |                     |      |      |       |        |       |
|-------------------|-----------------------------|------|------|---------------------|------|------|-------|--------|-------|
| CKT               | TERMINATION A               | TYPE | SIZE | TERMINATION B       | TYPE | SIZE | GAUGE | LENGTH | COLOR |
| 1                 | RECEPTACLE 1                | E    |      | GROUND              | A    | 1/4  | 14    | 46     | WHT   |
| 2                 | RECEPTACLE 6                | E    |      | SPLICE 1            | D    |      | 14    | 24     | BRN   |
| 3                 | SPLICE 1                    |      |      | LH FRT CLEARANCE    | B    |      | 14    | 95     | BRN   |
| 4                 | LH FRT CLEAR W/CKT 3B       |      |      | RH FRT CLEARANCE    | B    |      | 14    | 89     | BRN   |
| 5                 | SPLICE 1 W/CKT 3A           |      |      | SPLICE 2            | D    |      | 14    | 218    | BRN   |
| 6                 | RECEPTACLE 3                | E    |      | RH TURN             | G    |      | 14    | 342    | YEL   |
| 7                 | RECEPTACLE 5                | E    |      | LH TURN             | G    |      | 14    | 255    | GRN   |
| 8                 |                             |      |      |                     |      |      |       |        |       |
| 9                 |                             |      |      |                     |      |      |       |        |       |
| 10                | RH TURN/TAIL W/CKT 27B      |      |      | RH REAR CLEAR BOT   | B    |      | 14    | 22     | BRN   |
| 11                |                             |      |      |                     |      |      |       |        |       |
| 12                | SPLICE 2                    |      |      | LH REAR CLEARANCE   | B    |      | 14    | 19     | BRN   |
| 13                | LH REAR CLEAR W/CKT 12B     |      |      | LH REAR TOP CLEAR   | B    |      | 14    | 74     | BRN   |
| 14                | LH REAR TOP CLEAR W/CKT 13B |      |      | REAR ID W/CKT 15A   | B    |      | 14    | 61     | BRN   |
| 15                | R ID W/CKT 14B              |      |      | RH REAR TOP CLEAR   | B    |      | 14    | 56     | BRN   |
| 16                | SPLICE 2 W/CKT 12A          |      |      | LICENSE LAMP        | B    |      | 14    | 31     | BRN   |
| 17                | SPLICE 2 W/CKT 12A          |      |      | LH TURN/TAIL        | G    |      | 14    | 13     | BRN   |
| 18                | RECEPTACLE 4                | E    |      | LH STOP LAMP        | G    |      | 14    | 261    | RED   |
| 19                | LIGHT GRD W/CKT 24A         |      |      | LIGHT GROUND        |      |      | 14    | 36     | WHT   |
| 20                | LEFT STOP LAMP W/CKT 18B    |      |      | RIGHT STOP LAMP     | G    |      | 14    | 99     | RED   |
| 21                | RECEPTACLE 7                | E    |      | ELECTRIC BRAKES     |      |      | 14    | 29     | BLU   |
| 22                | LEFT TURN GRD               |      |      | LH ST/GRD W/CKT 23A | G    |      | 14    | 30     | WHT   |
| 23                | LEFT STOP GRD               |      |      | RT ST/GRD W/CKT 24A | G    |      | 14    | 99     | WHT   |
| 24                | RIGHT STOP GRD              |      |      | RH TURN GRD         | G    |      | 14    | 30     | WHT   |
| 25                | LH TURN/TAIL W/CKT 17B      |      |      | LEFT STOP/TAIL      | G    |      | 14    | 30     | BRN   |
| 26                | LH STOP/TAIL W/CKT 25B      |      |      | RIGHT STOP/TAIL     | G    |      | 14    | 99     | BRN   |
| 27                | RH STOP/TAIL W/CKT 26B      |      |      | RIGHT TURN/TAIL     | G    |      | 14    | 30     | BRN   |
| 28                | RECEPTACLE 2                | E    |      | AUX                 | B    |      | 14    | 29     | BLK   |

## Wagon Wheel Running Gear



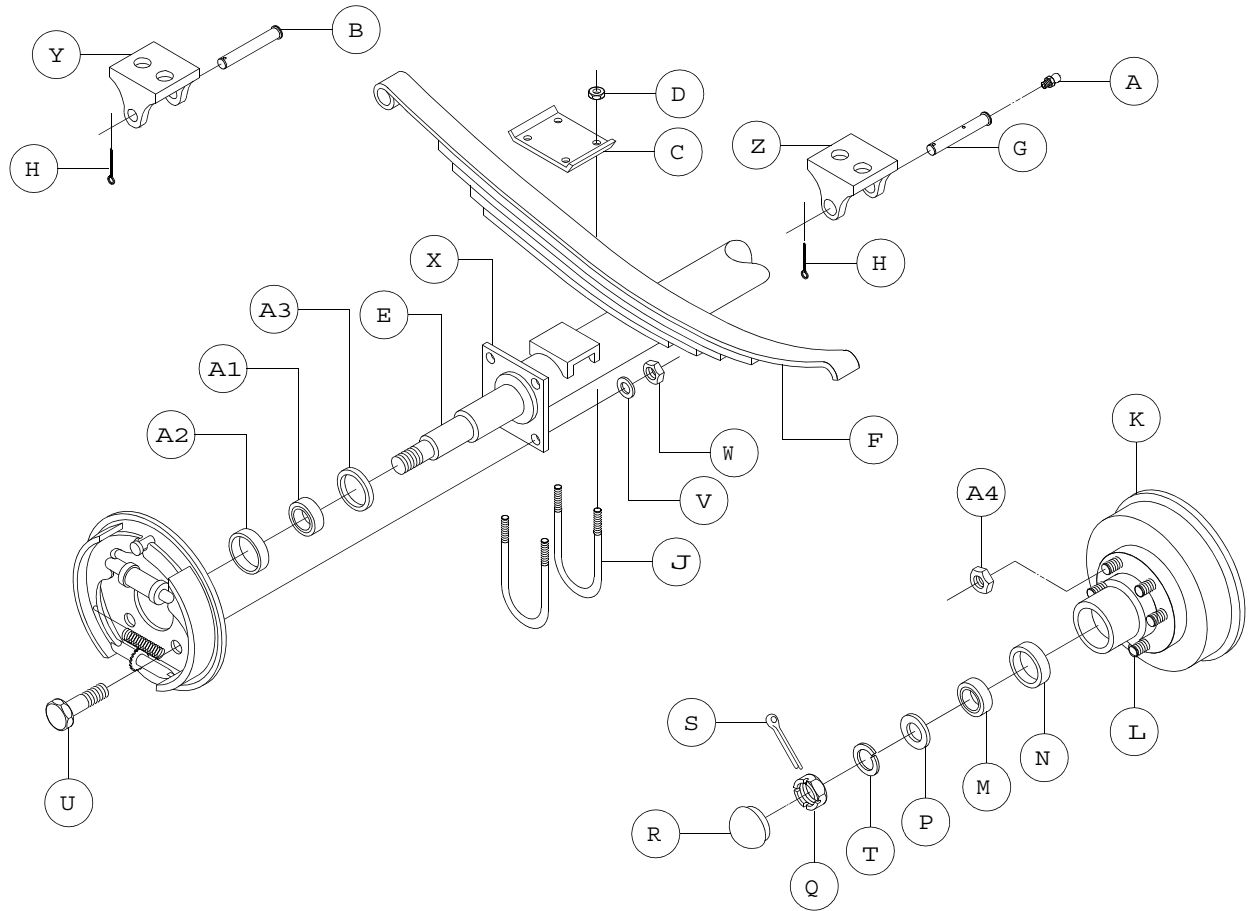
| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES      |
|------|-----------|---------------------|-----|-----------------------|
| A    | 36504389  | Rod, Tie            | 2   |                       |
| B    | 36140730  | Nut, Jam            | 2   |                       |
| C    | 35588961  | Ball Joint, Outer   | 2   |                       |
| D    | 35221894  | Fitting, Lube       | 2   |                       |
| E    | 36753259  | Axle, Front         | 1   |                       |
| F    | 95717369  | Pin, Roll           | 1   |                       |
| G    | 35221894  | Fitting, Lube       | 1   |                       |
| H    | 95338554  | Pin, Roll           | 2   |                       |
| J    | 95239927  | Washer              | 4   |                       |
| K    | 36851566  | LH Knuckle Assembly | 1   |                       |
| L    | 36851574  | RH Knuckle Assembly | 1   |                       |
| M    | 95673042  | Pin, Roll           | 2   |                       |
| N    | 35319045  | Pin, King           | 2   |                       |
| P    | 95018982  | Pin, Cotter         | 2   |                       |
| Q    | 36719169  | Bracket             | 2   |                       |
| R    | 36719466  | Spring              | 2   |                       |
| S    | 36719177  | Bracket             | 2   |                       |
| T    | 35111590  | Bolt, Shackle       | 2   | <b>Continued.....</b> |

## Wagon Wheel Running Gear



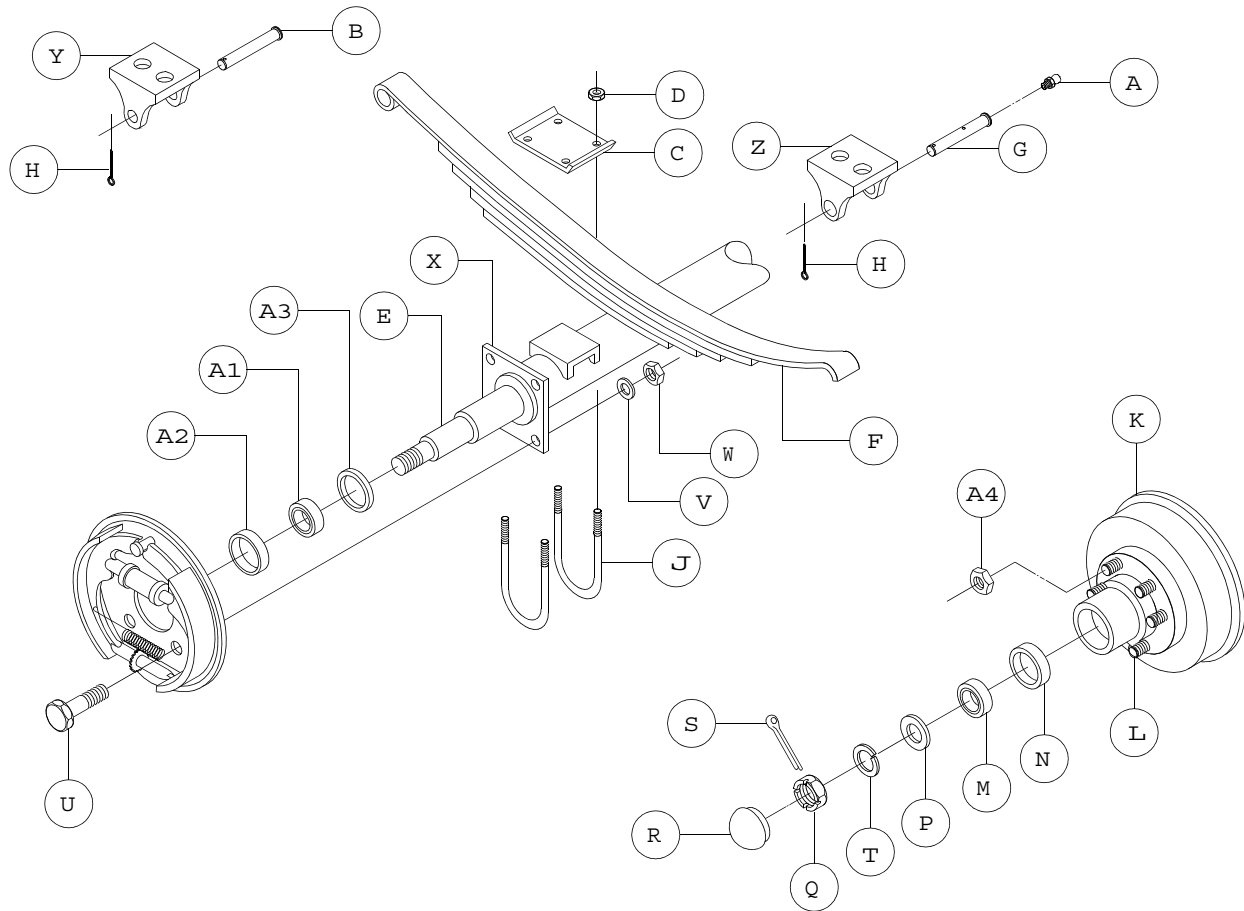
| ITEM | COMM. NO. | DESCRIPTION                              | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------------------|-----|------------------|
| U    | 95318556  | Fitting, Lube                            | 2   | .....Continued   |
| V    | 35588755  | Pin, Center                              | 1   |                  |
| W    | 95717377  | Pin, Roll                                | 2   |                  |
| X    | 95934956  | Washer                                   | 2   |                  |
| Y    | 36719557  | Drawbar                                  | 1   |                  |
| Z    | 35107168  | Pin, Hinge                               | 1   |                  |
| A1   | 95201455  | Pin, Cotter                              | 2   |                  |
| A2   | 36753242  | Arm, Center                              | 1   |                  |
| A3   | 35588953  | Balljoint, Inner                         | 2   |                  |
| A4   | 35140722  | Nut, Jam                                 | 2   |                  |
| A5   | 36719219  | Latch                                    | 1   |                  |
| A6   | 35141167  | Spring                                   | 1   |                  |
| A7   | 95098703  | Pin, Roll                                | 2   |                  |
| A8   | 36851376  | Front Axle Assembly                      | 1   |                  |
| A9   | 36851384  | Rear Axle Assembly                       | 1   |                  |
| B1   | 36853042  | Tie Rod Assy. (Includes A, B, C, A3, A4) | 2   |                  |
|      | 22077515  | Wheel                                    | 4   |                  |
|      | 36877991  | Tire                                     | 4   |                  |
|      | 36878049  | Ring, Clamp                              | 4   |                  |

## Wagon Wheel Running Gear



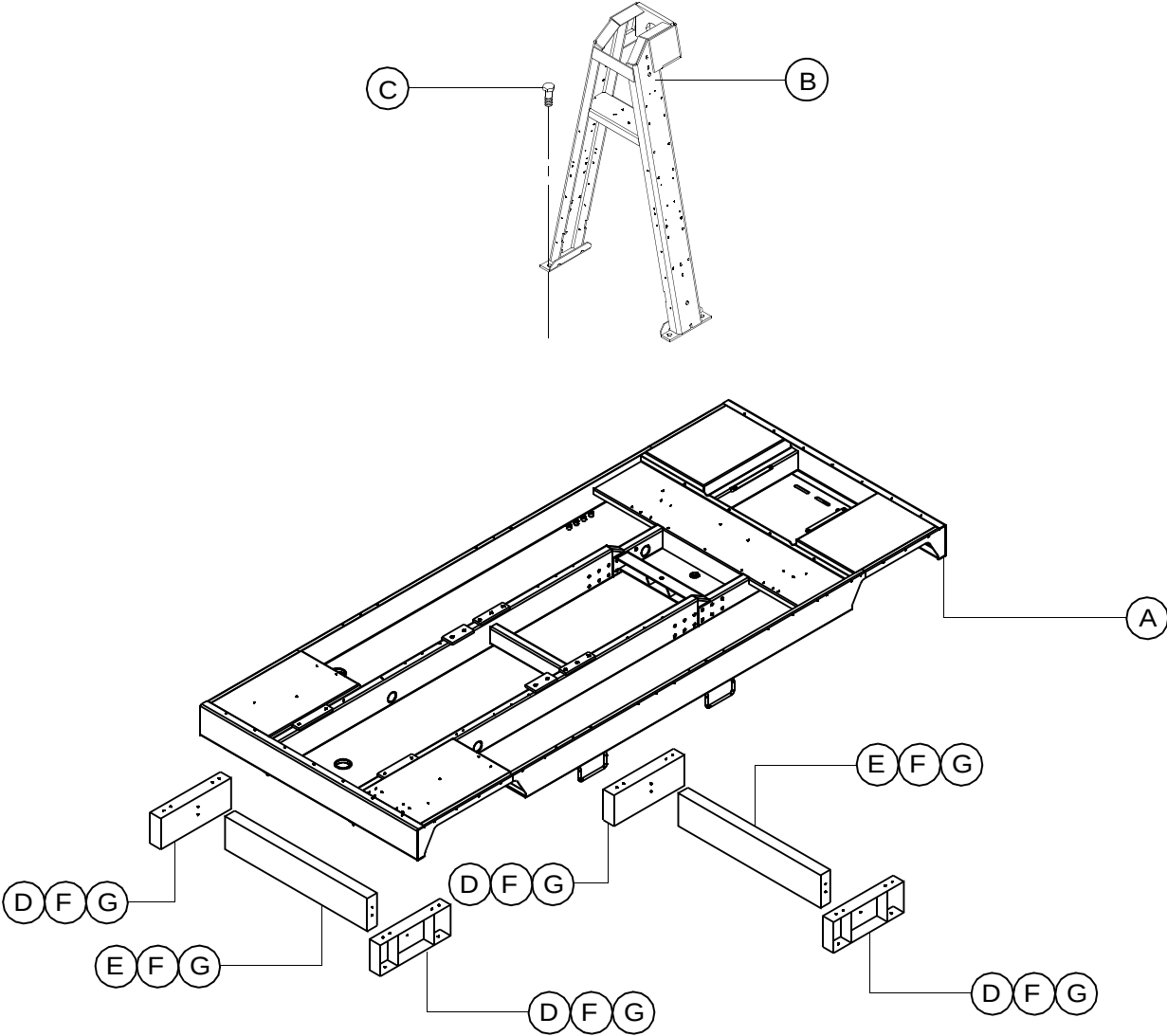
| ITEM | COMM. NO. | DESCRIPTION                            | QTY | DIMENSIONS/NOTES      |
|------|-----------|----------------------------------------|-----|-----------------------|
| A    | 95318556  | Fitting, Lube                          | 2   |                       |
| B    | 35588839  | Rivet                                  | 2   |                       |
| C    | 35589241  | Plate, Clamp                           | 2   |                       |
| D    | 35111566  | Nut                                    | 8   |                       |
| E    | 36851640  | Axle, Rear                             | 1   |                       |
| F    | 36719466  | Spring                                 | 2   |                       |
| G    | 35111590  | Bolt Shackle                           | 2   |                       |
| H    | 95018982  | Pin, Cotter                            | 2   |                       |
| J    | 35834621  | U-Bolt                                 | 4   |                       |
| K    | 36851665  | Hub Assembly (Includes Items N, L, A2) | 2   |                       |
| L    | 36764983  | Stud                                   | 8   |                       |
| M    | 36851590  | Outer Bearing                          | 2   |                       |
| N    | 36851616  | Outer Race                             | 2   |                       |
| P    | 36853109  | Washer, Flat                           | 2   |                       |
| Q    | 36853091  | Nut                                    | 2   |                       |
| R    | 36776813  | Pin, Cotter                            | 2   |                       |
| S    | 95272902  | Cap, Grease                            | 2   |                       |
| T    | 36853117  | Washer, Lock                           | 2   | <b>Continued.....</b> |

## Wagon Wheel Running Gear



| ITEM | COMM. NO.  | DESCRIPTION            | QTY | DIMENSIONS/NOTES |
|------|------------|------------------------|-----|------------------|
| U    | 36A2D326Z1 | Bolt                   | 8   | .....Continued   |
| V    | 95934741   | Washer, Flat           | 8   |                  |
| W    | 95916573   | Nut                    | 8   |                  |
| X    | 36776839   | Flange, Brake Mounting | 2   |                  |
| Y    | 36719177   | Bracket                | 2   |                  |
| Z    | 36719169   | Bracket                | 2   |                  |
| A1   | 36851608   | Inner Bearing          | 2   |                  |
| A2   | 36851624   | Inner Race             | 2   |                  |
| A3   | 36851632   | Seal                   | 2   |                  |
| A4   | 36776821   | Nut, Stud              | 8   |                  |

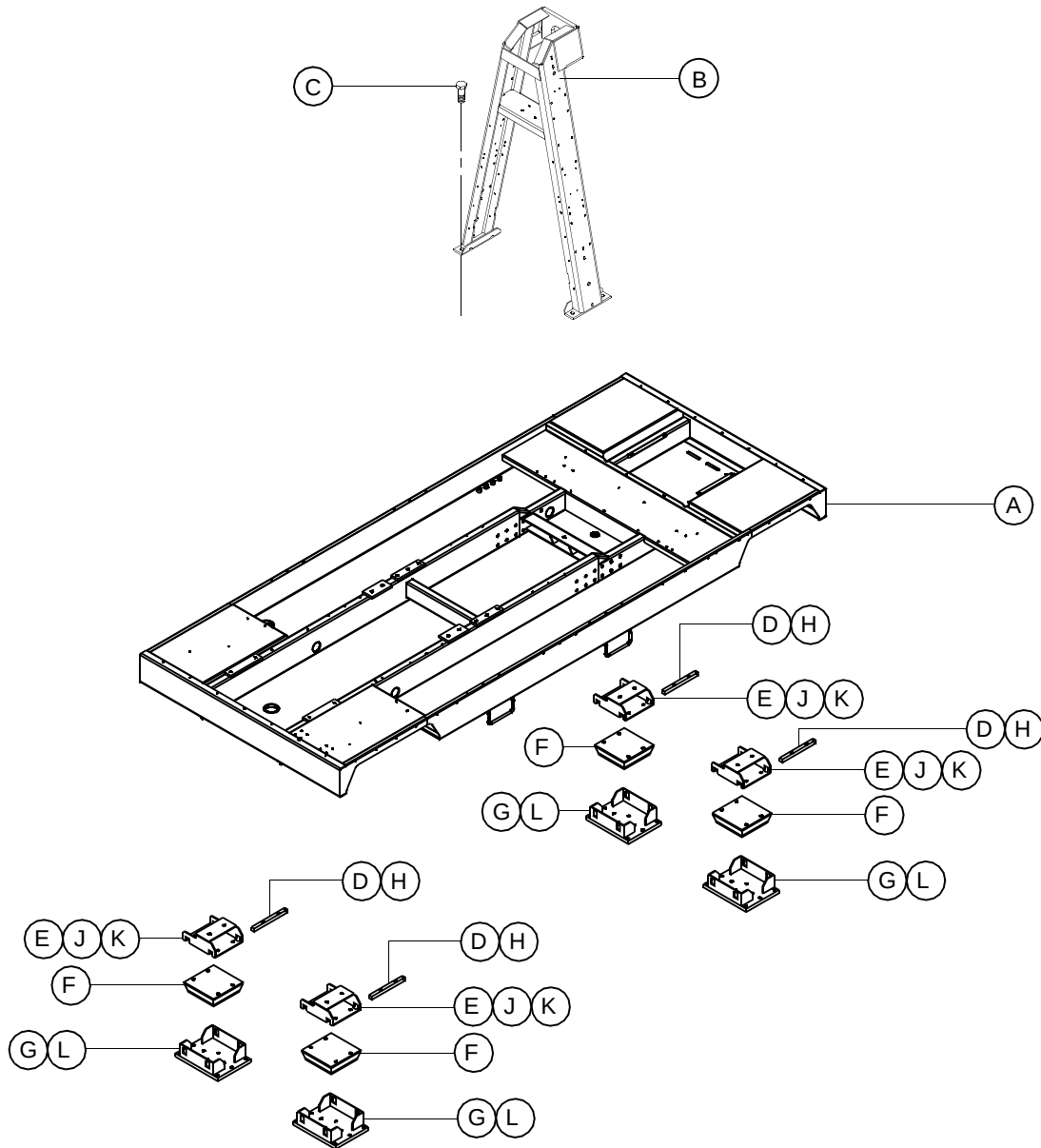
LRG Pedestal Mount on Wagon Wheel Frame Assembly



22742951\_005\_06/04\_A

| ITEM | COMM. NO. | DESCRIPTION      | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------|-----|------------------|
| A    | 54501796  | Frame Assembly   | 1   |                  |
| B    | 22186845  | Bail, Lifting    | 1   |                  |
| C    | 96700901  | Screw            | 6   |                  |
| D    | 22051304  | Support, LRG     | 4   |                  |
| E    | 22053706  | Crossmember, LRG | 2   |                  |
| F    | 39179072  | Screw, M16 X 50  | 24  |                  |
| G    | 96701750  | Nut, M16         | 24  |                  |

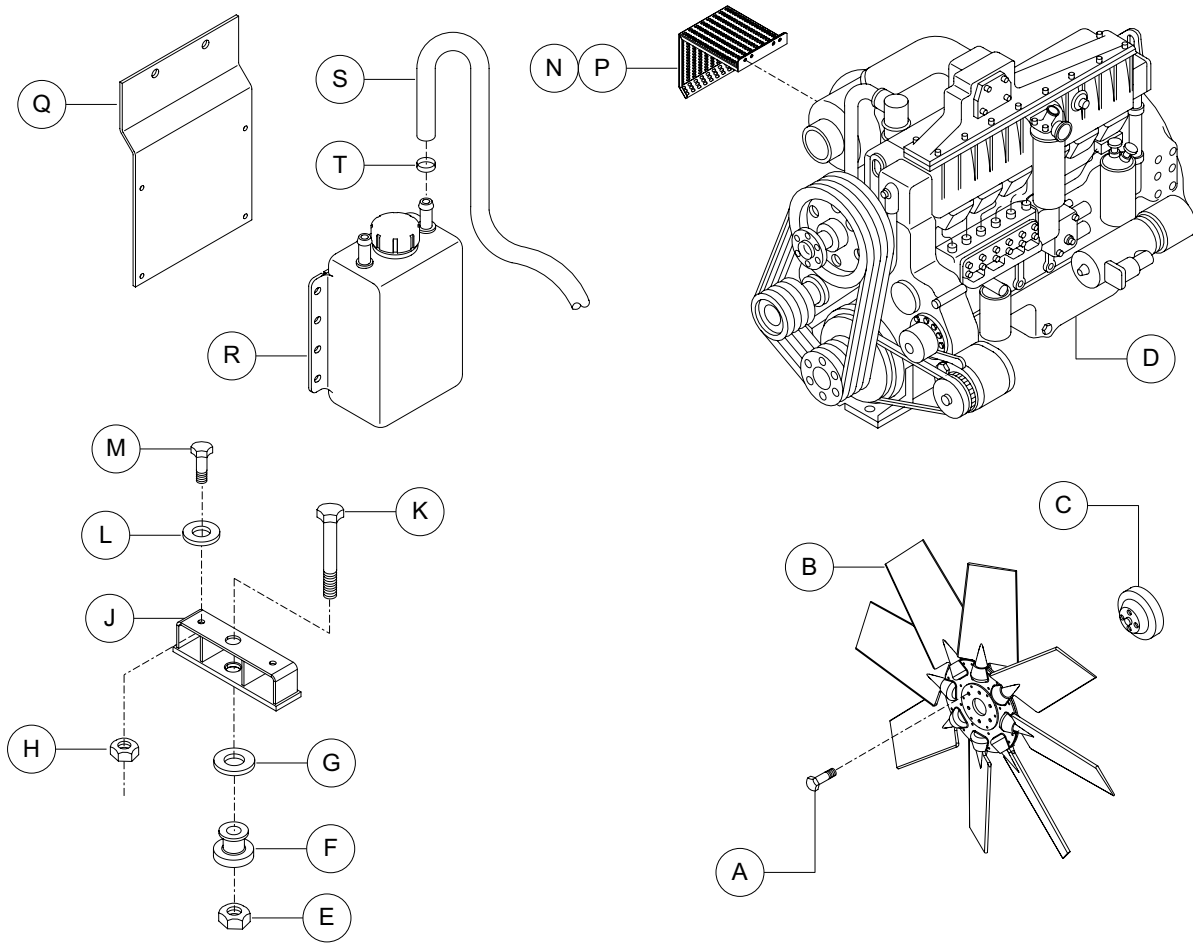
## LRG Shock Mount on Wagon Wheel Frame Assembly



22742951\_006\_06/04\_A

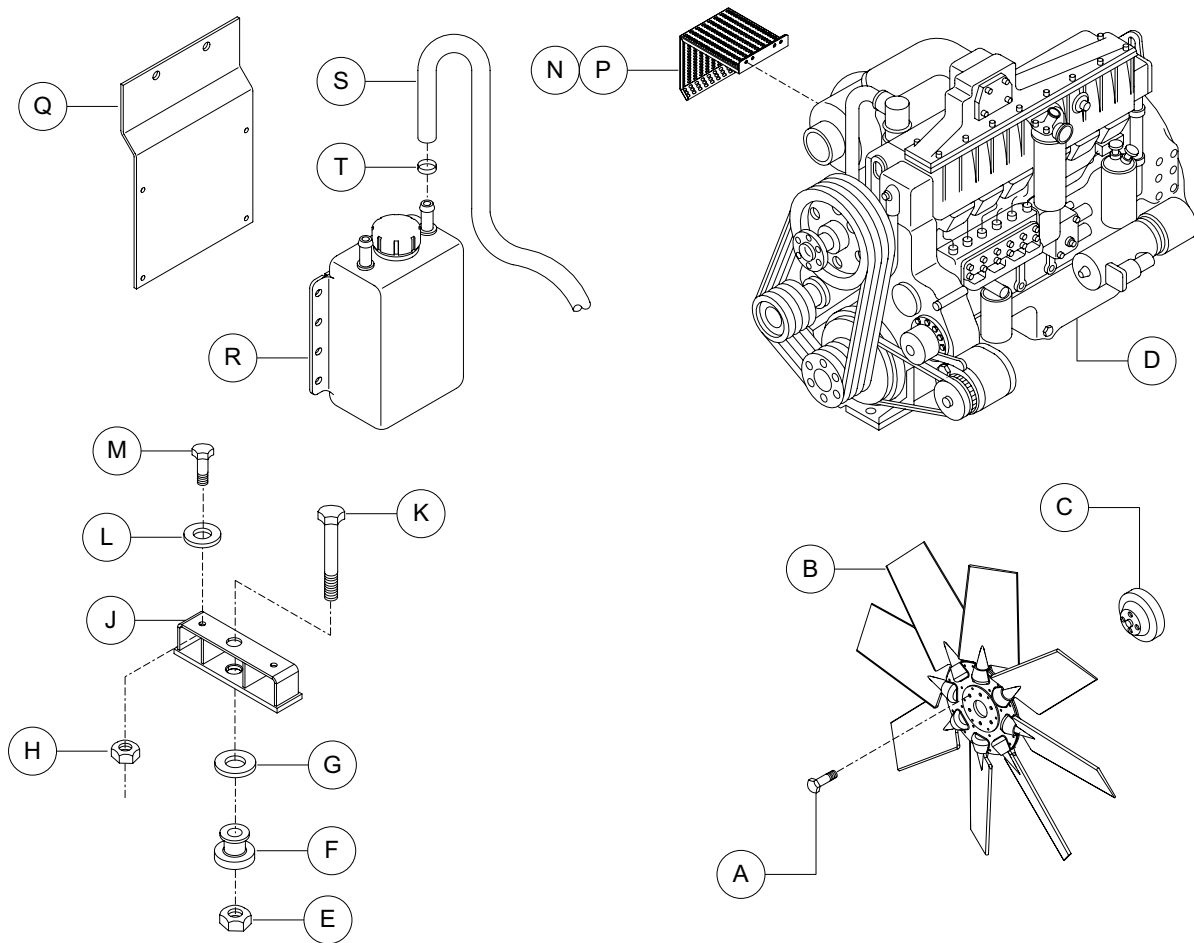
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 54501796  | Frame Assembly             | 1   |                  |
| B    | 22186845  | Bail, Lifting              | 1   |                  |
| C    | 96700901  | Screw                      | 6   |                  |
| D    | 22112171  | Bar, Shock Mount Rest      | 8   |                  |
| E    | 22110761  | Support, Upper Shock Mount | 4   |                  |
| F    | 36847002  | Isolator, Shear Mount      | 4   |                  |
| G    | 22110753  | Support, Lower Shock Mount | 4   |                  |
| H    | 95994877  | Screw, Hex 1/2-20 X 2.0    | 16  |                  |
| J    | 39179072  | Bolt, M16 X 50             | 8   |                  |
| K    | 96701750  | Nut, M16                   | 8   |                  |
| L    | 95954079  | Screw, Hex 1/2-20 X 1.0    | 16  |                  |

## Engine Assembly



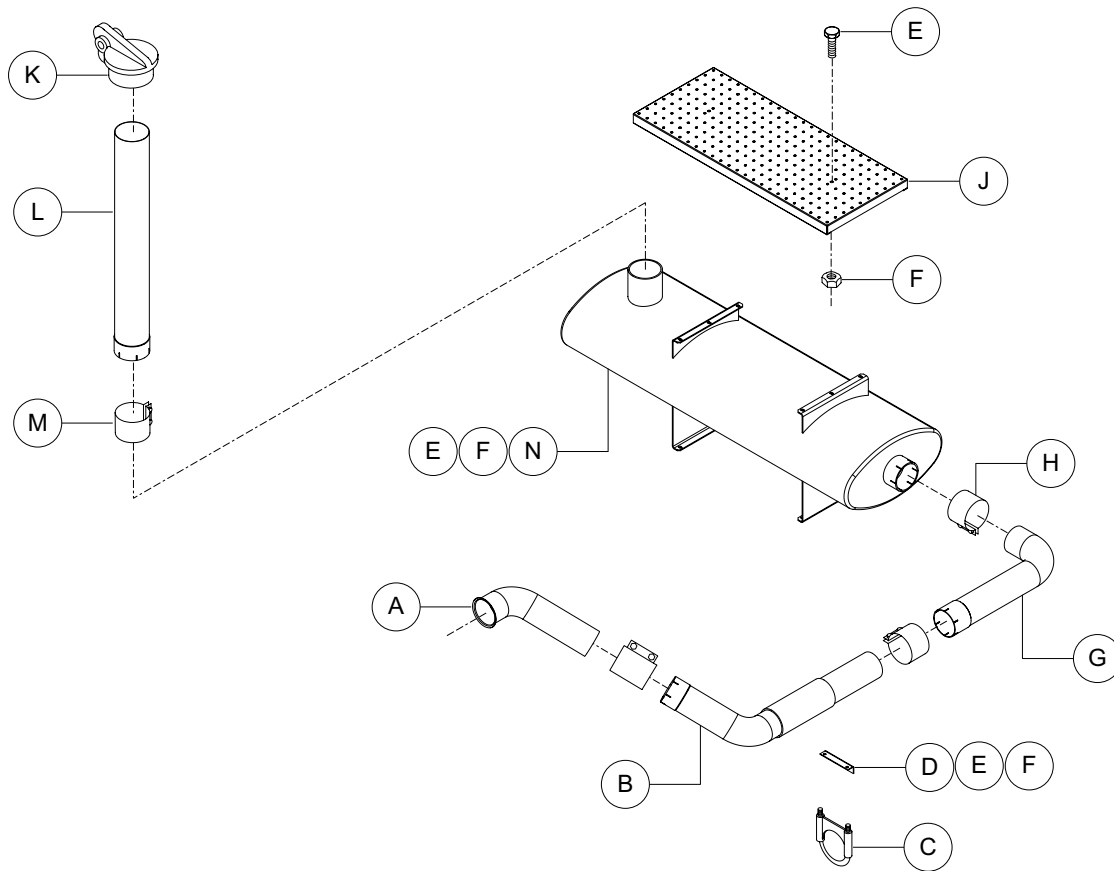
| ITEM | COMM. NO. | DESCRIPTION                          | QTY | DIMENSIONS/NOTES      |
|------|-----------|--------------------------------------|-----|-----------------------|
| A    | 95940920  | Screw                                | 6   |                       |
| B    | 36884047  | Fan Assembly                         | 1   |                       |
| C    | 54409339  | Spacer, Fan                          | 1   |                       |
| D    | 54661533  | Engine, QSX-15 Cummins - Tier 2      | 1   |                       |
|      | 22648414  | Engine, QSX-15-C600 Cummins - Tier 3 | 1   |                       |
| E    | 95923363  | Nut                                  | 1   |                       |
| F    | 35584556  | Mount, Rubber                        | 1   |                       |
| G    | 35273937  | Washer                               | 1   |                       |
| H    | 35297340  | Nut                                  | 2   |                       |
| J    | 54570122  | Bracket, Engine                      | 1   |                       |
| K    | 95934253  | Screw                                | 1   |                       |
| L    | 95935011  | Washer                               | 2   |                       |
| M    | 36763670  | Screw                                | 2   |                       |
| N    | 54687322  | Guard, Turbo                         | 1   |                       |
| P    | 36879492  | Screw                                | 2   |                       |
|      |           |                                      |     | <b>Continued.....</b> |

## Engine Assembly



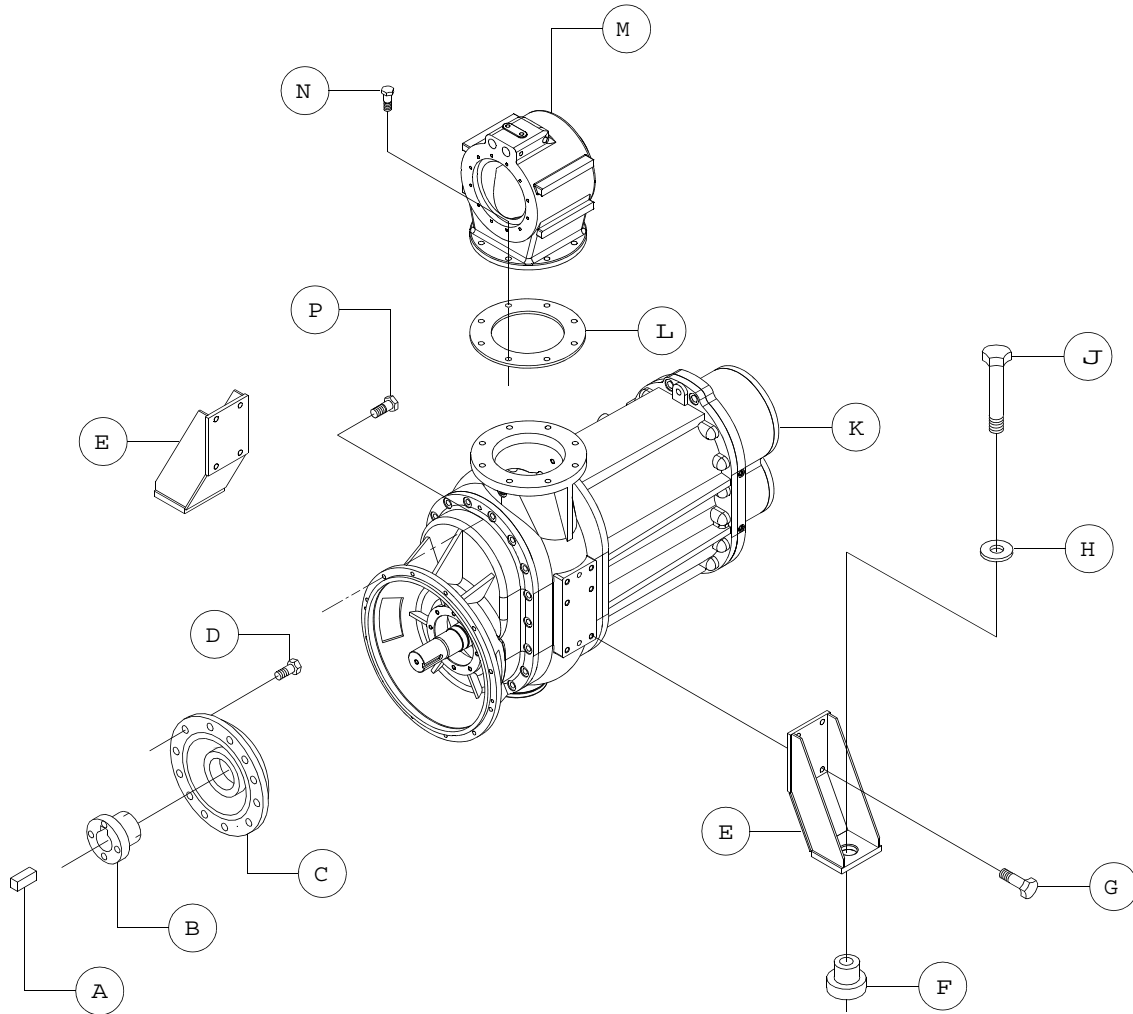
| ITEM | COMM. NO. | DESCRIPTION                                   | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------------------------|-----|------------------|
| Q    | 22524508  | Bracket, Overflow                             | 1   | .....Continued   |
| R    | 36845600  | Bottle, Overflow                              |     |                  |
| S    | 35360775  | Hose                                          |     |                  |
| T    | 95220844  | Clamp                                         |     |                  |
|      | 36870608  | Sender, Pressure (RH Side of Engine)          | 1   |                  |
|      | 36841138  | Sender, Temp. (Side of Water Pump in Bushing) | 1   |                  |
|      | 54662036  | Engine Fuel Filter                            | 1   |                  |
|      | 54662028  | Engine Oil Filter                             | 1   |                  |
|      | 54662051  | Engine Water Separator Filter                 | 1   |                  |
|      | 22065916  | Alternator Belt                               | 1   |                  |
|      | 22765374  | Engine Belt                                   | 1   |                  |

## Exhaust Assembly



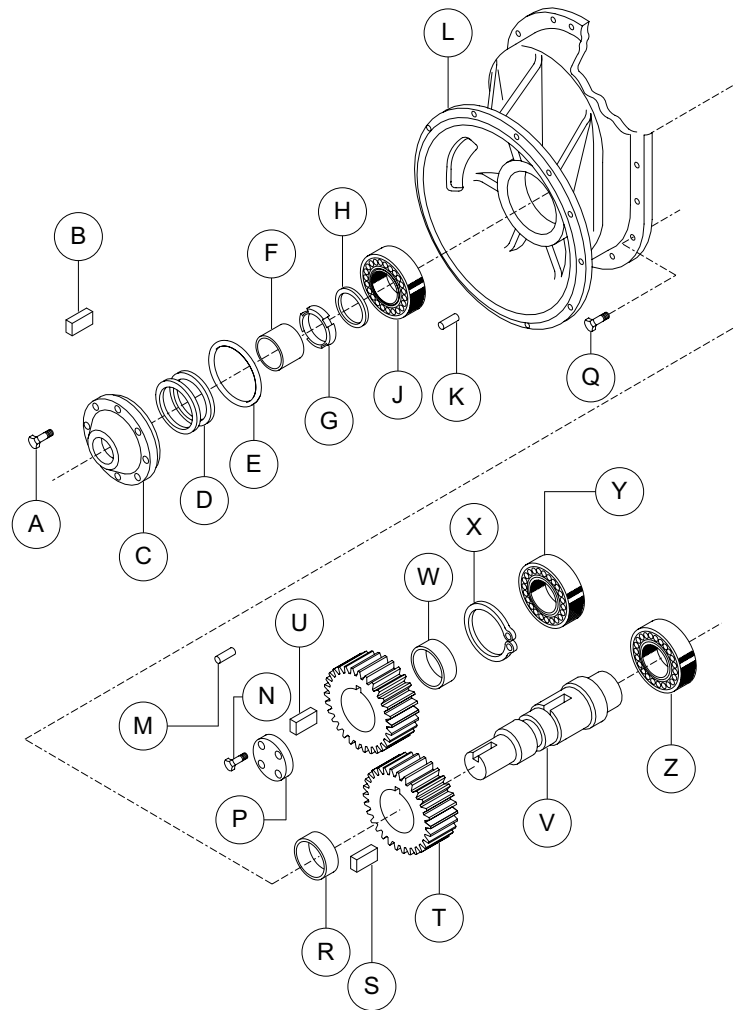
| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 54603774  | Pipe, Engine Turbo       | 1   |                  |
| B    | 54616552  | Pipe, Exhaust (Standard) | 1   |                  |
|      | 54738752  | Pipe, Exhaust (IQ)       | 1   |                  |
| C    | 35127653  | Clamp                    | 1   |                  |
| D    | 35611235  | Support, Pipe            | 1   |                  |
| E    | 36880995  | Screw                    | 12  |                  |
| F    | 36879195  | Nut                      | 12  |                  |
| G    | 54616560  | Pipe, Exhaust            | 1   |                  |
| H    | 35307131  | Clamp, Seal              | 3   |                  |
| J    | 54629589  | Step                     | 1   |                  |
| K    | 35851351  | Cap, Rain                | 1   |                  |
| L    | 54629126  | Pipe, Exhaust            | 1   |                  |
| M    | 36799807  | Clamp, Seal              | 1   |                  |
| N    | 54603204  | Muffler                  | 1   |                  |
|      | 54662010  | Wrap, Exhaust            | 1   |                  |
|      | 54721105  | Kit, Wrap Wire Kit       | 1   |                  |

## 285 Air End Complete



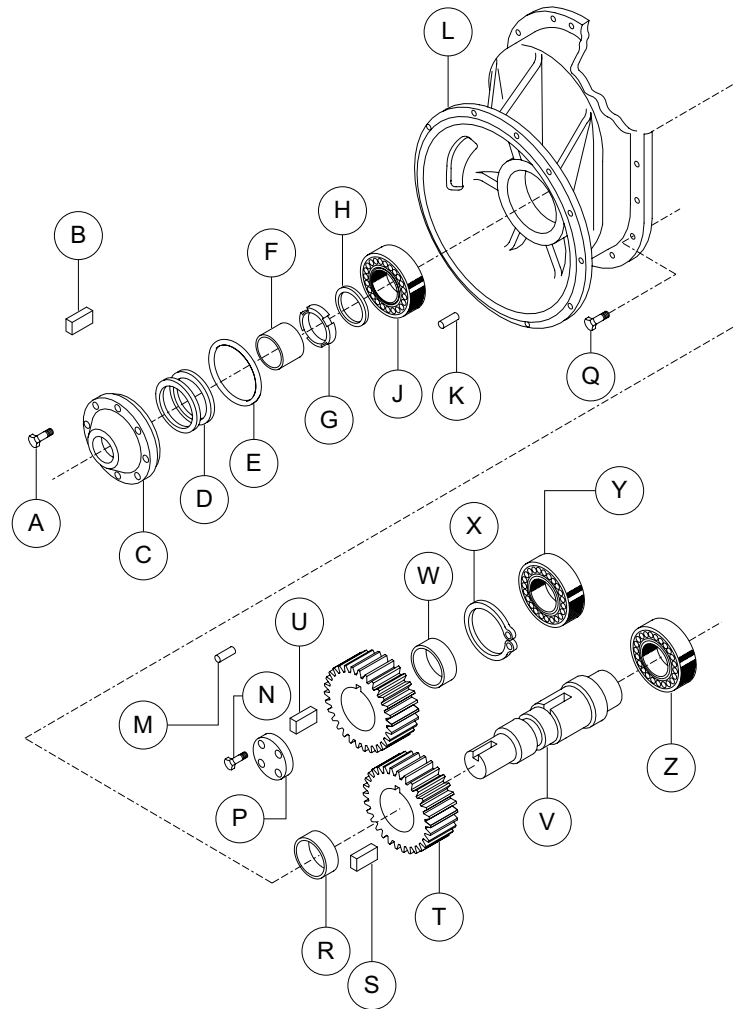
| ITEM | COMM. NO. | DESCRIPTION       | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------|-----|------------------|
| A    | 35367069  | Key, Bushing      | 1   |                  |
| B    | 35307784  | Bushing           | 1   |                  |
| C    | 54540141  | Coupling          | 1   |                  |
| D    | 95941092  | Screw             | 12  |                  |
| E    | 54542535  | Bracket, Air End  | 2   |                  |
| F    | 35584556  | Mount, Rubber     | 2   |                  |
| G    | 35375385  | Screw             | 8   |                  |
| H    | 35273937  | Washer            | 2   |                  |
| J    | 96700919  | Screw             | 2   |                  |
| K    | 42469809  | Air End Assembly  | 1   |                  |
| L    | 36754059  | Gasket            | 1   |                  |
| M    | 36729531  | Unloader Assembly | 1   |                  |
| N    | 35375377  | Screw             | 8   |                  |
| P    | 95934626  | Screw             | 12  |                  |

## 285 Air End Complete



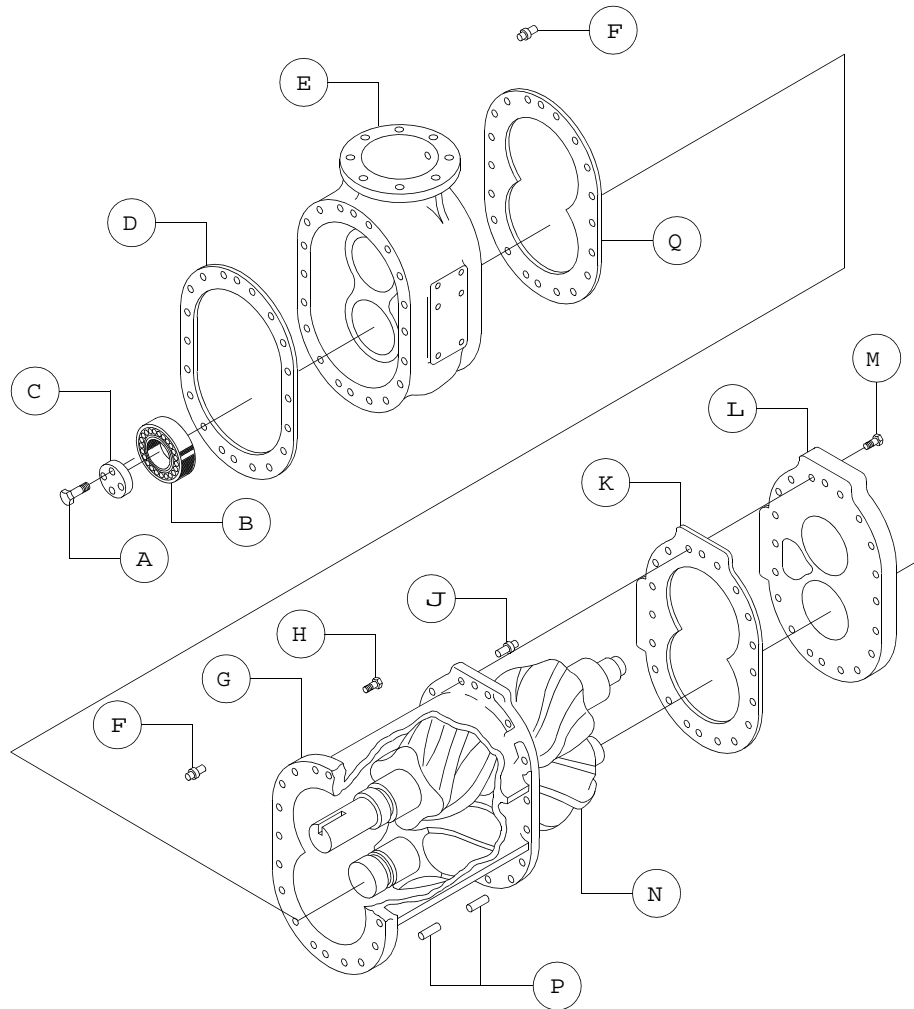
| ITEM | COMM. NO. | DESCRIPTION      | QTY | DIMENSIONS/NOTES      |
|------|-----------|------------------|-----|-----------------------|
| A    | 96706080  | Screw            | 8   |                       |
| B    | 35367069  | Key              | 1   |                       |
| C    | 35849348  | Cover            | 1   |                       |
| D    | 39927512  | Shim ( 1.016mm ) | 1   |                       |
|      | 39927520  | Shim ( 1.016mm ) | 1   |                       |
|      | 39927538  | Shim ( 1.016mm ) | 1   |                       |
|      | 39927546  | Shim ( 1.016mm ) | 6   |                       |
| E    | 95358214  | O-Ring           | 1   |                       |
| F    | 35596626  | Seal             | 1   |                       |
| G    | 35299775  | Locknut          | 1   |                       |
| H    | 35300227  | Spacer           | 1   |                       |
| J    | 35605203  | Bearing          | 1   |                       |
| K    | 35365261  | Pin              | 1   |                       |
| L    | 36711083  | Gear Case        | 1   |                       |
| M    | 35295336  | Dowel            | 1   |                       |
| N    | 35299569  | Screw            | 4   |                       |
| P    | 35300177  | Plate, Clamp     | 1   | <i>Continued.....</i> |

## 285 Air End Complete



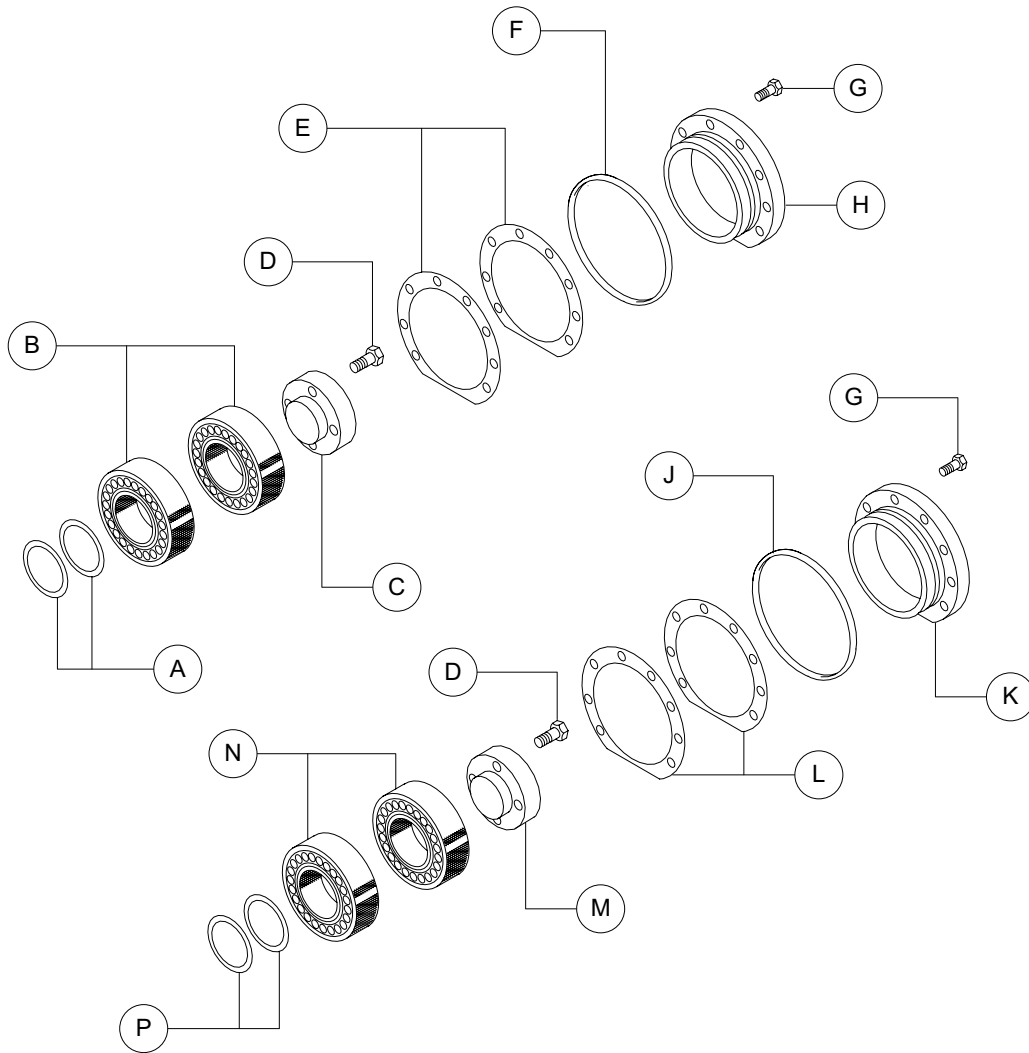
| ITEM | COMM. NO. | DESCRIPTION       | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------|-----|------------------|
| Q    | 96706262  | Screw             | 18  | .....Continued   |
| R    | 35300227  | Spacer            | 1   |                  |
| S    | 35300136  | Key               | 1   |                  |
| T    | 35298470  | Gear Set, HP-1300 | 1   |                  |
|      | 36758142  | Gear Set, HP-1600 | 1   |                  |
| U    | 35300144  | Key               | 1   |                  |
| V    | 35851195  | Shaft             | 1   |                  |
| W    | 35610286  | Spacer            | 1   |                  |
| X    | 95285599  | Retaining Ring    | 1   |                  |
| Y    | 35610591  | Bearing           | 1   |                  |
| Z    | 35605203  | Bearing           | 1   |                  |

## 285 Air End Complete



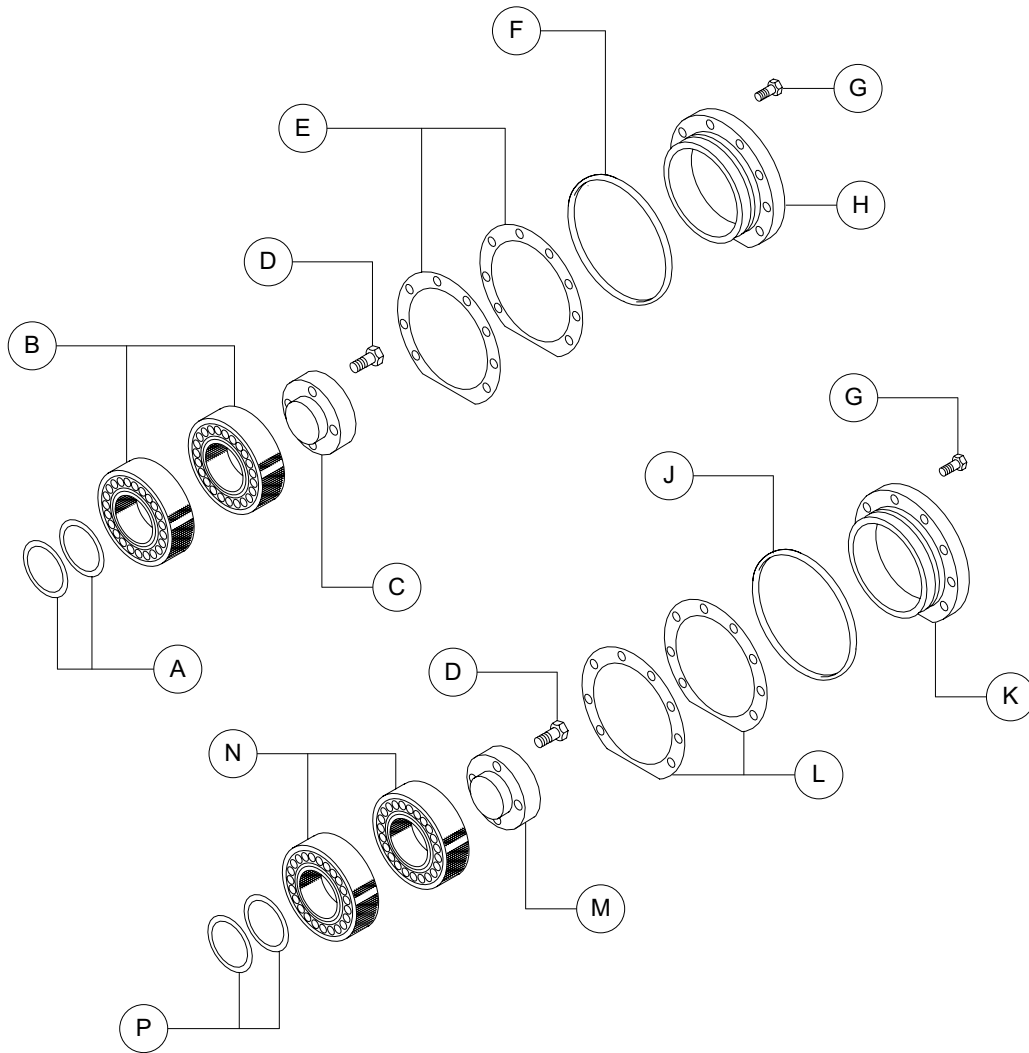
| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------|-----|------------------|
| A    | 35293869  | Screw                  | 4   |                  |
| B    | 39926787  | Bearing                | 1   |                  |
| C    | 35373877  | Plate, Clamp           | 1   |                  |
| D    | 35820646  | Gasket                 | 1   |                  |
| E    | 36754141  | Housing, Front Bearing | 1   |                  |
| F    | 35365279  | Pin                    | 2   |                  |
| G    | 54363536  | Housing, Rotor         | 1   |                  |
| H    | 96706262  | Screw                  | 20  |                  |
| J    | 35365279  | Dowel                  | 1   |                  |
| K    | 35820661  | Gasket                 | 1   |                  |
| L    | 36856060  | Housing, Rear Bearing  | 1   |                  |
| M    | 39101472  | Screw                  | 4   |                  |
|      | 35299767  | Screw                  | 12  |                  |
| N    | 42469676  | Rotor Set              | 1   |                  |
| P    | 35295336  | Dowel                  | 2   |                  |
| Q    | 35820653  | Gasket                 | 1   |                  |

## 285 Air End Complete



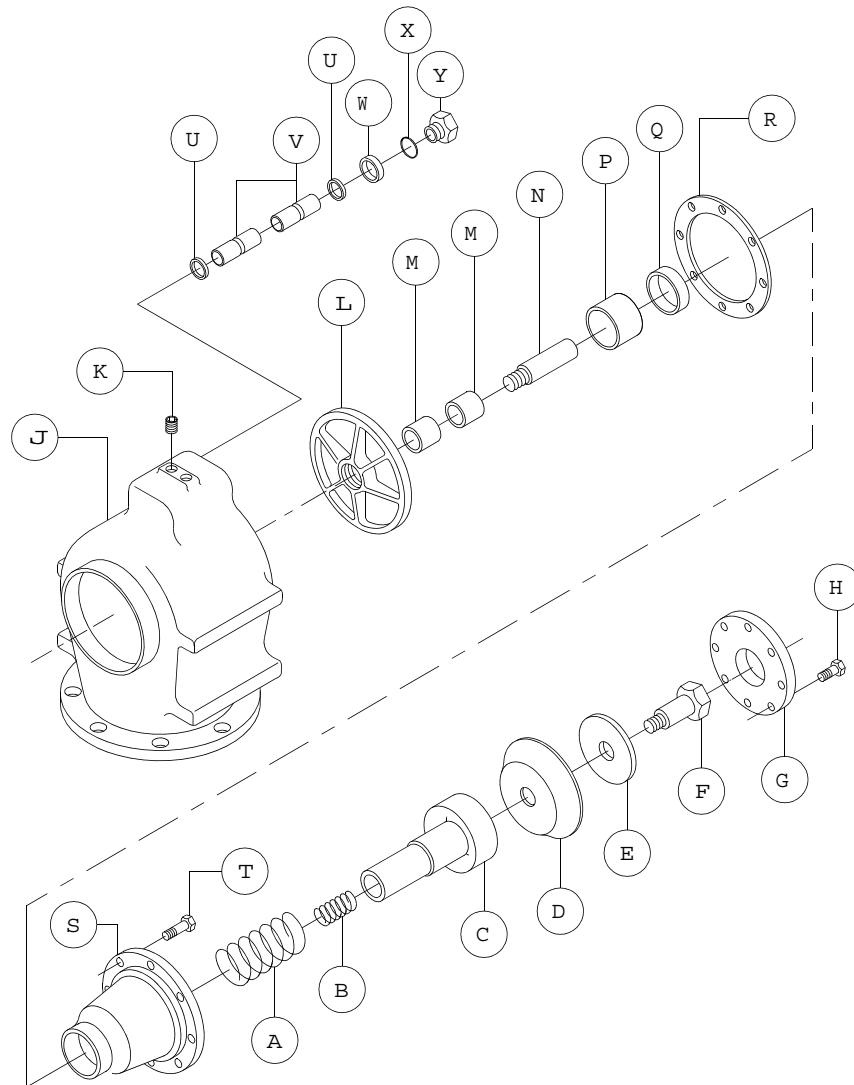
| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES      |
|------|-----------|-----------------|-----|-----------------------|
| A    | 39927496  | Shim            | 6   |                       |
| B    | 35299403  | Bearing         | 2   |                       |
| C    | 35610278  | Plate, Clamp    | 1   |                       |
| D    | 35299569  | Screw           | 4   |                       |
| E    | 39927058  | Shim ( .051mm ) | 3   |                       |
|      | 95358446  | Shim ( .076mm ) | 3   |                       |
|      | 35321520  | Shim ( .254mm ) | 3   |                       |
| F    | 95352944  | O-Ring          | 1   |                       |
| G    | 96716162  | Screw           | 8   |                       |
| H    | 36504330  | Cap             | 1   |                       |
| J    | 95603130  | O-Ring          | 1   |                       |
| K    | 36504355  | Cap             | 1   |                       |
| L    | 39926902  | Shim ( .051mm ) | 3   |                       |
|      | 39926910  | Shim ( .076mm ) | 3   |                       |
|      | 39926928  | Shim ( .254mm ) | 3   |                       |
|      |           |                 |     | <b>Continued.....</b> |

## 285 Air End Complete



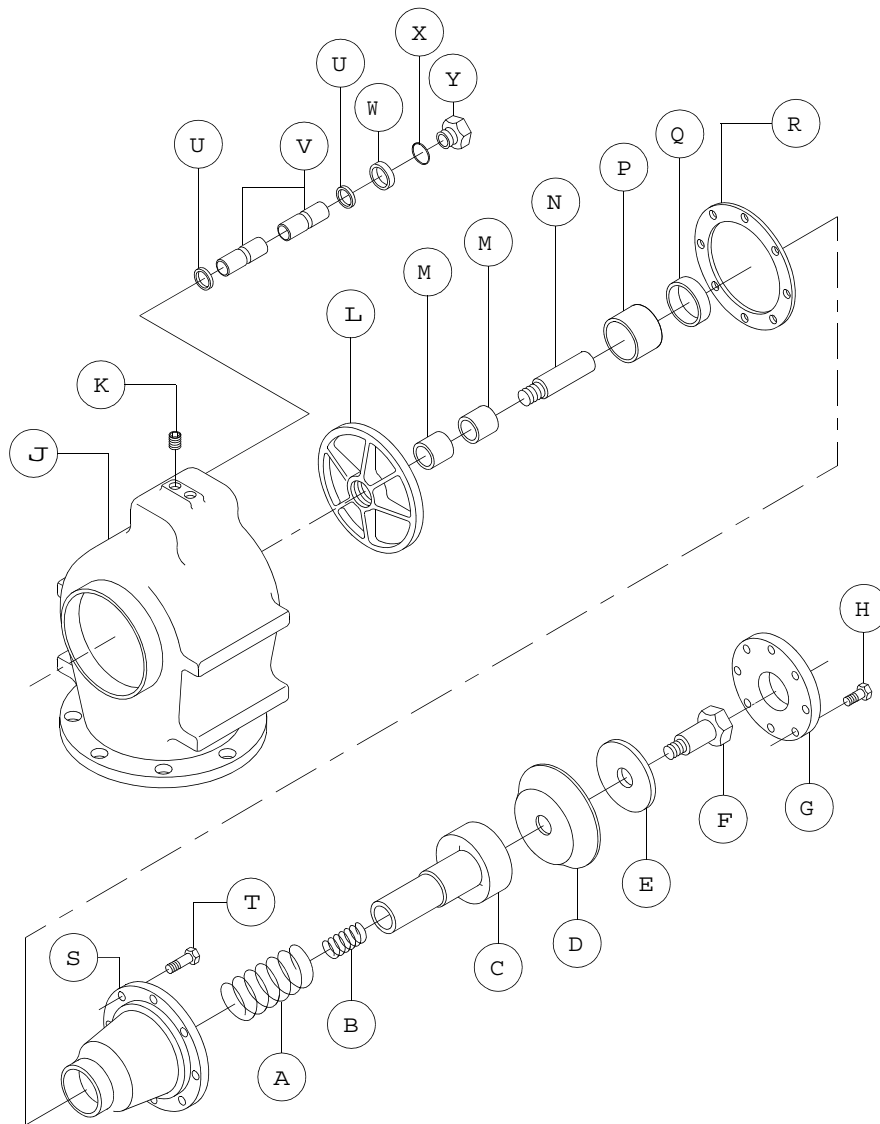
| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------|-----|------------------|
| M    | 35606920  | Plate, Clamp    | 1   | .....Continued   |
| N    | 35299429  | Bearing         | 2   |                  |
| P    | 39927504  | Shim ( .051mm ) | 5   |                  |

## Unloader Assembly



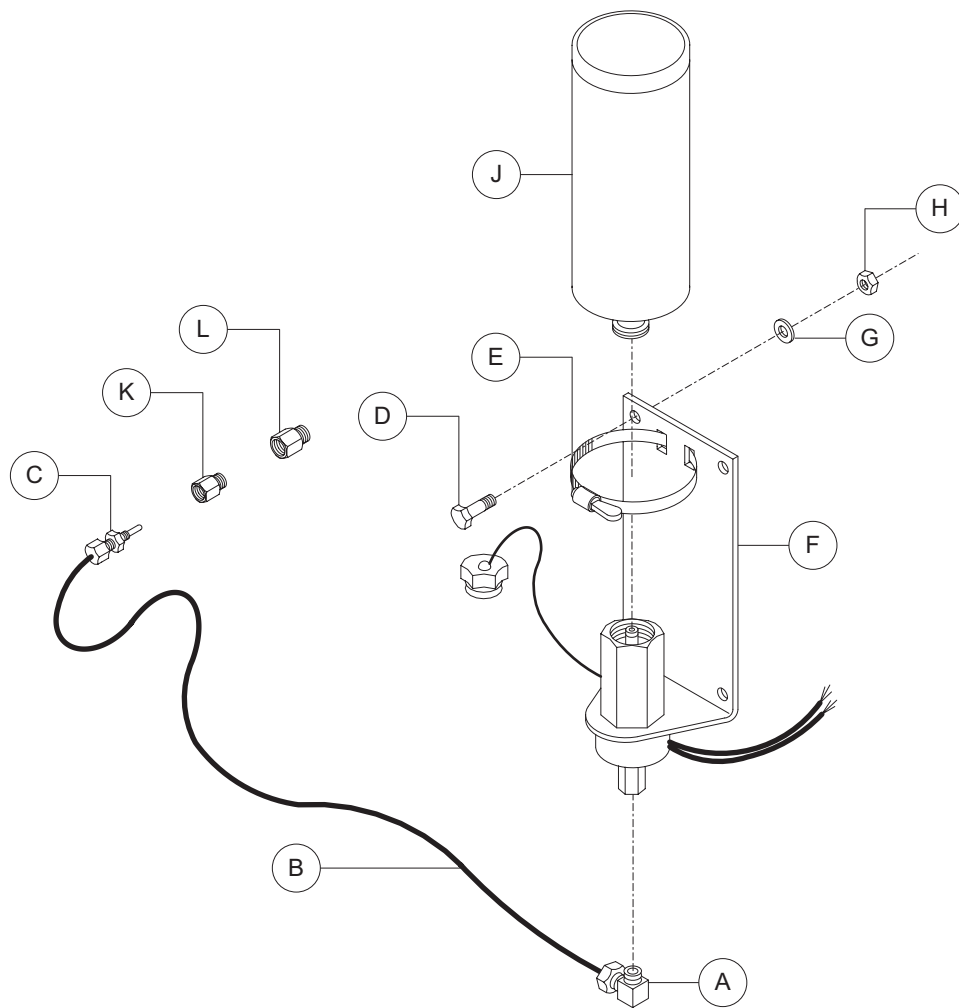
| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES      |
|------|-----------|-----------------|-----|-----------------------|
| A    | 35594878  | Spring, Piston  | 1   | <i>Continued.....</i> |
| B    | 35594910  | Spring, Valve   | 1   |                       |
| C    | 35594829  | Piston          | 1   |                       |
| D    | 35594837  | Diaphragm       | 1   |                       |
| E    | 35332618  | Washer, Piston  | 1   |                       |
| F    | 95104147  | Screw           | 1   |                       |
| G    | 35594811  | Cover, Piston   | 1   |                       |
| H    | 96702659  | Screw           | 8   |                       |
| J    | 36729416  | Body, Unloader  | 1   |                       |
| K    | 95928222  | Plug            | 1   |                       |
| L    | 35594860  | Valve, Unloader | 1   |                       |
| M    | 35332659  | Bushing         | 2   |                       |
| N    | 35332675  | Stem, Valve     | 1   |                       |

## Unloader Assembly



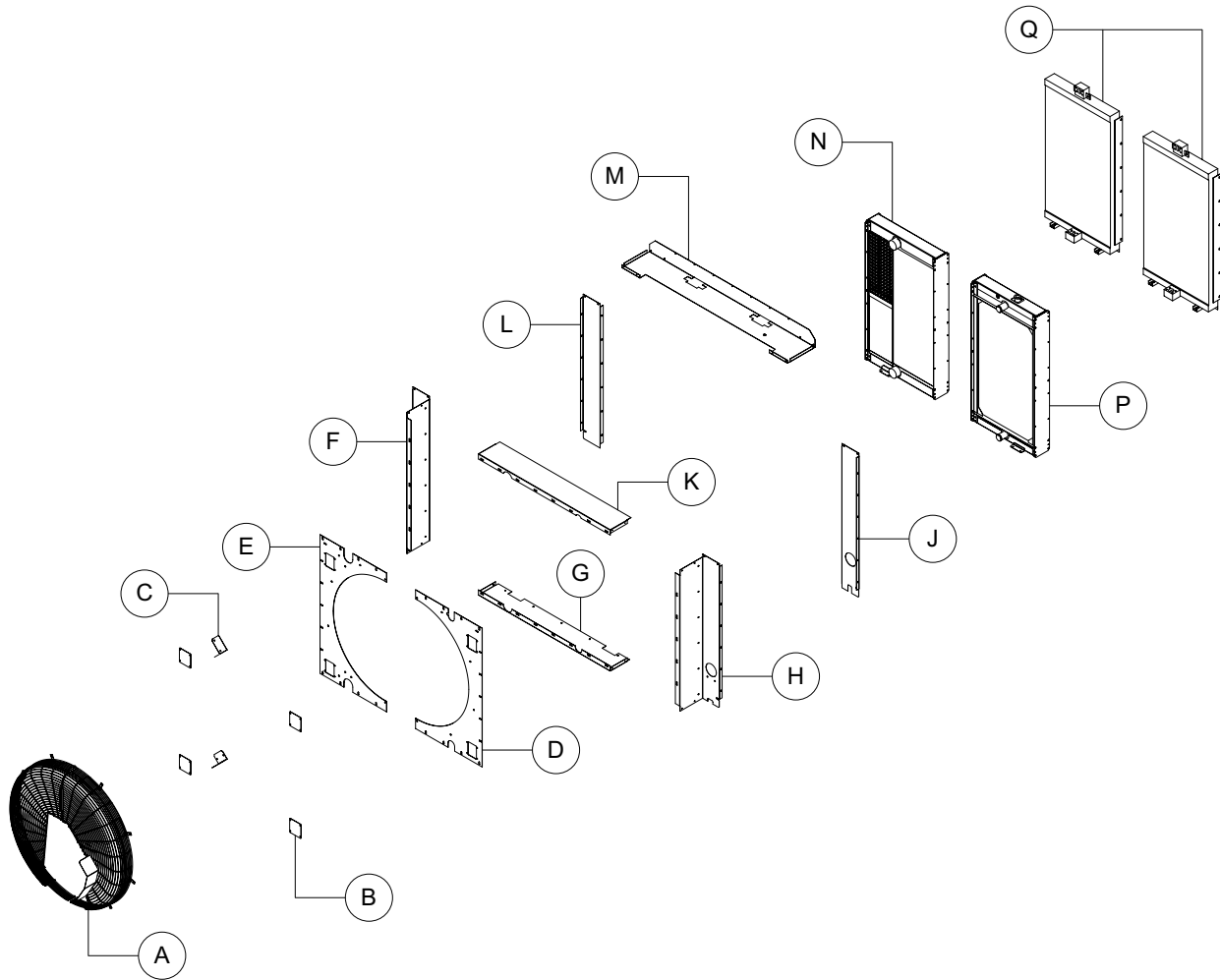
| ITEM | COMM. NO. | DESCRIPTION      | QTY | DIMENSIONS/NOTES      |
|------|-----------|------------------|-----|-----------------------|
| P    | 35332634  | Bushing, Housing | 1   | <b>.....Continued</b> |
| Q    | 35332642  | Seal             | 1   |                       |
| R    | 35594845  | Gasket           | 1   |                       |
| S    | 36729465  | Housing, Piston  | 1   |                       |
| T    | 96702287  | Screw            | 12  |                       |
| U    | 35331586  | Grommet          | 2   |                       |
| V    | 36897148  | Valve            | 1   |                       |
| W    | 35332626  | Spacer           | 1   |                       |
| X    | 39102355  | O-Ring           | 1   |                       |
| Y    | 95928222  | Plug             | 1   |                       |

## Starting Aid Assembly



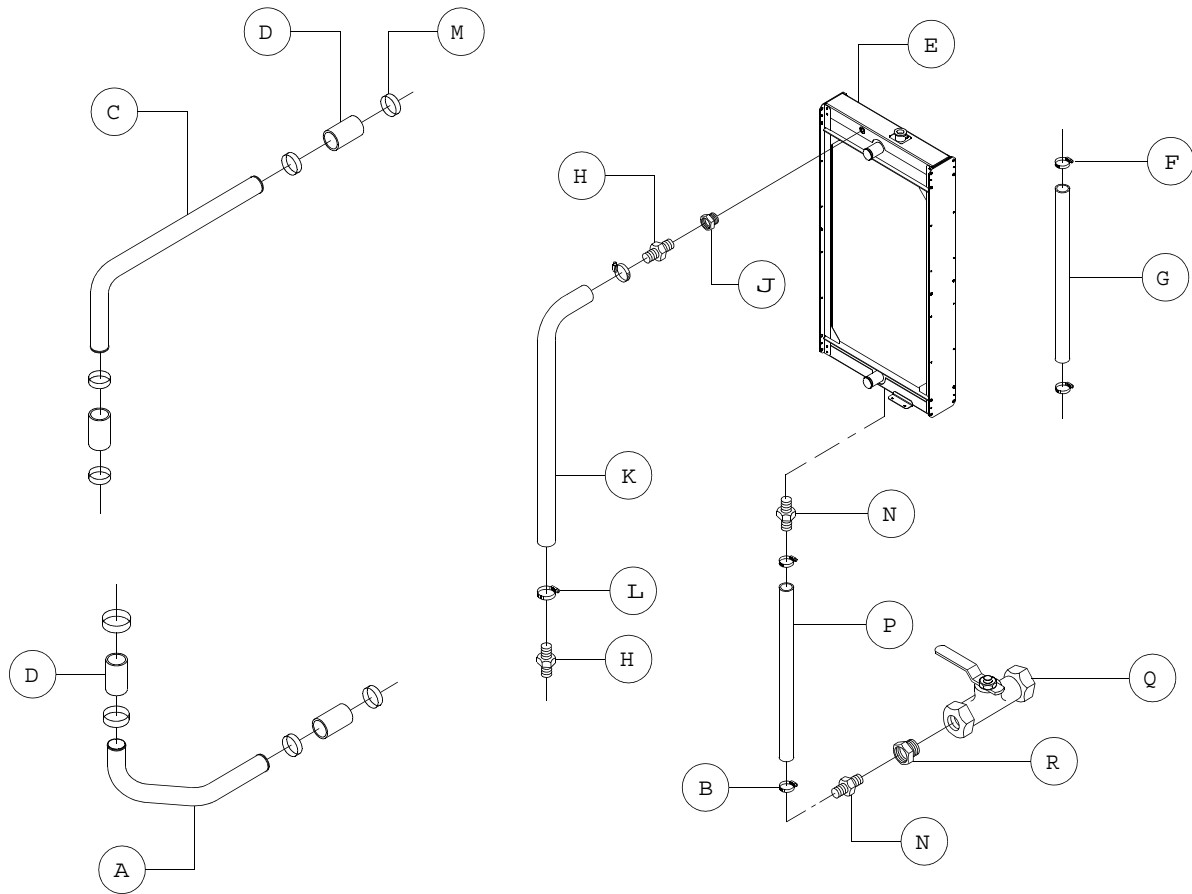
| ITEM | COMM. NO. | DESCRIPTION                           | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------------|-----|------------------|
| A    | 35103498  | Elbow                                 | 1   | 84"              |
| B    | 35132166  | Tubing                                | 1   |                  |
| C    | 35602812  | Atomizer                              | 1   |                  |
| D    | 35322908  | Screw                                 | 4   |                  |
| E    | 35103506  | Clamp                                 | 1   |                  |
| F    | 35357052  | Valve and Bracket Assembly            | 1   |                  |
| G    | 95043196  | Washer                                | 4   |                  |
| H    | 92304500  | Nut                                   | 4   |                  |
| J    | 35112911  | Cylinder, Ether                       | 1   |                  |
| K    | 95930301  | Bushing                               | 1   |                  |
| L    | 54720719  | Adapter (To Engine Charge Air Return) | 1   |                  |

## Radiator and Oil Cooler



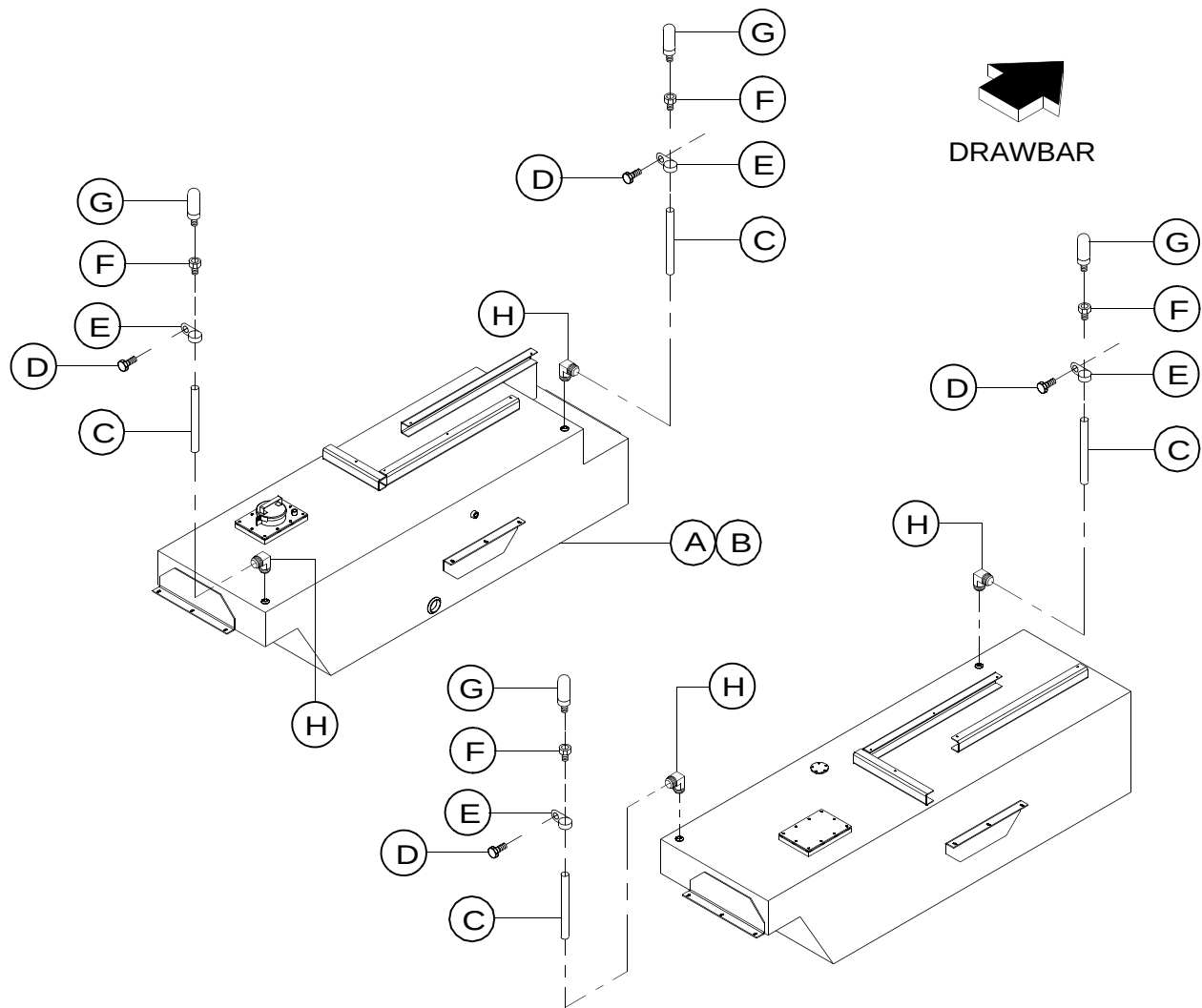
| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 54774526  | Fan Guard Assembly       | 1   |                  |
| B    | 54661426  | Plate, Cover             | 4   |                  |
| C    | 54661459  | Bracket                  | 2   |                  |
| D    | 54507488  | Orifice RH Fan           | 1   |                  |
| E    | 54507470  | Orifice LH Fan           | 1   |                  |
| F    | 54507454  | Support, RH Shroud       | 1   |                  |
| G    | 54507447  | Support, Bottom Shroud   | 1   |                  |
| H    | 54507462  | Support, LH Shroud       | 1   |                  |
| J    | 22496269  | Support, LH Rear Shroud  | 1   |                  |
| K    | 54507439  | Support, Top Shroud      | 1   |                  |
| L    | 22496277  | Support RH Rear Shroud   | 1   |                  |
| M    | 22495311  | Support, Top Rear Shroud | 1   |                  |
| N    | 54501846  | Cooler, A/C Fuel         | 1   |                  |
| P    | 22767453  | Radiator                 | 1   |                  |
| Q    | 54501853  | Cooler Oil               | 2   |                  |

## Radiator Piping



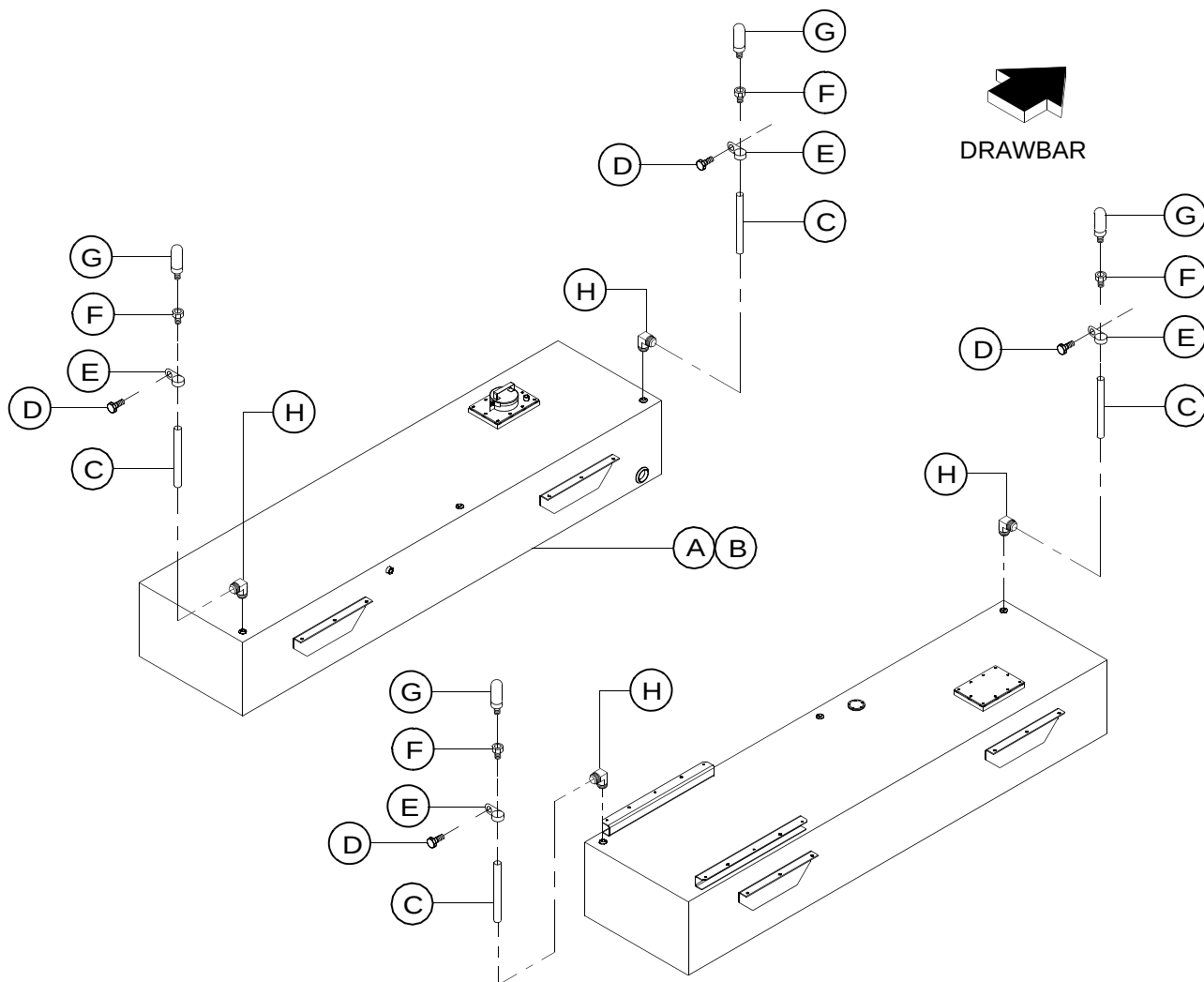
| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 54637996  | Tube, Lower Radiator | 1   |                  |
| B    | 95220844  | Clamp                | 2   |                  |
| C    | 54638101  | Tube, Upper Radiator | 1   |                  |
| D    | 35330570  | Hose, Connector      | 3   |                  |
| E    | 22767453  | Radiator             | 1   |                  |
| F    | 95235131  | Clamp                | 2   |                  |
| G    | 35135458  | Hose, By-Pass        | 1   | 55"              |
| H    | 35310598  | Fitting, Barbed      | 1   |                  |
| J    | 43212216  | Adapter              | 1   |                  |
| K    | 35285600  | Hose, Vent           | 1   | 52"              |
| L    | 95264776  | Clamp                | 2   |                  |
| M    | 35222017  | Clamp                | 8   |                  |
| N    | 35326560  | Adapter              | 1   |                  |
| P    | 35326578  | Hose, Drain          | 1   | 115"             |
| Q    | 35576115  | Valve, Ball          | 1   |                  |
| R    | 95953949  | Adapter              | 1   |                  |
|      | 54474572  | Switch, Level        | 1   |                  |

## High Speed Running Gear Fuel Tank Vent Piping



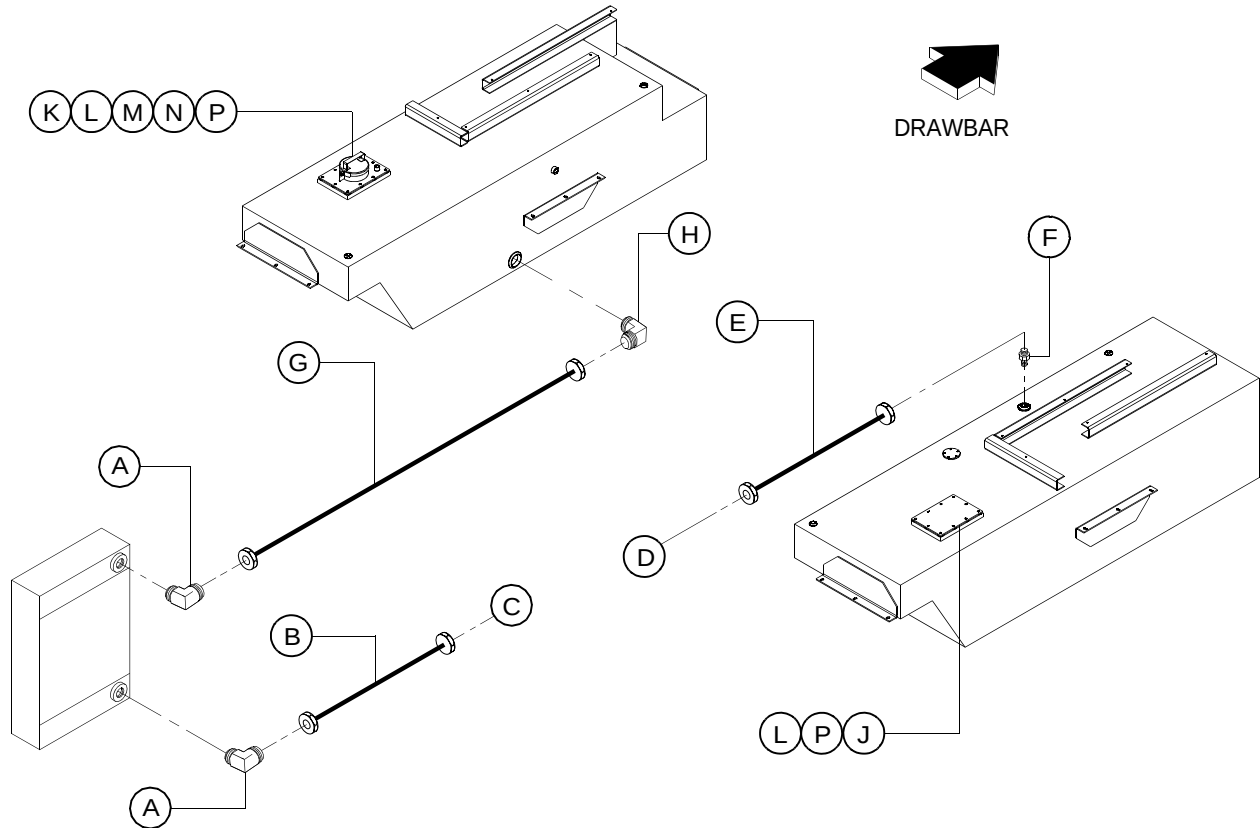
| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| A    | 22699201  | Tank, R.H. Fuel    | 1   |                  |
| B    | 54594080  | Tank, L.H. Fuel    | 1   |                  |
| C    | 35356484  | Tubing (18 Inches) | 1   |                  |
| D    | 92368687  | Screw              | 1   |                  |
| E    | 35253038  | Clamp              | 1   |                  |
| F    | 35369339  | Reducer            | 1   |                  |
| G    | 35322395  | Breather           | 1   |                  |
| H    | 35369354  | Elbow              | 1   |                  |

## Wagon Wheel Running Gear Fuel Tank Vent Piping



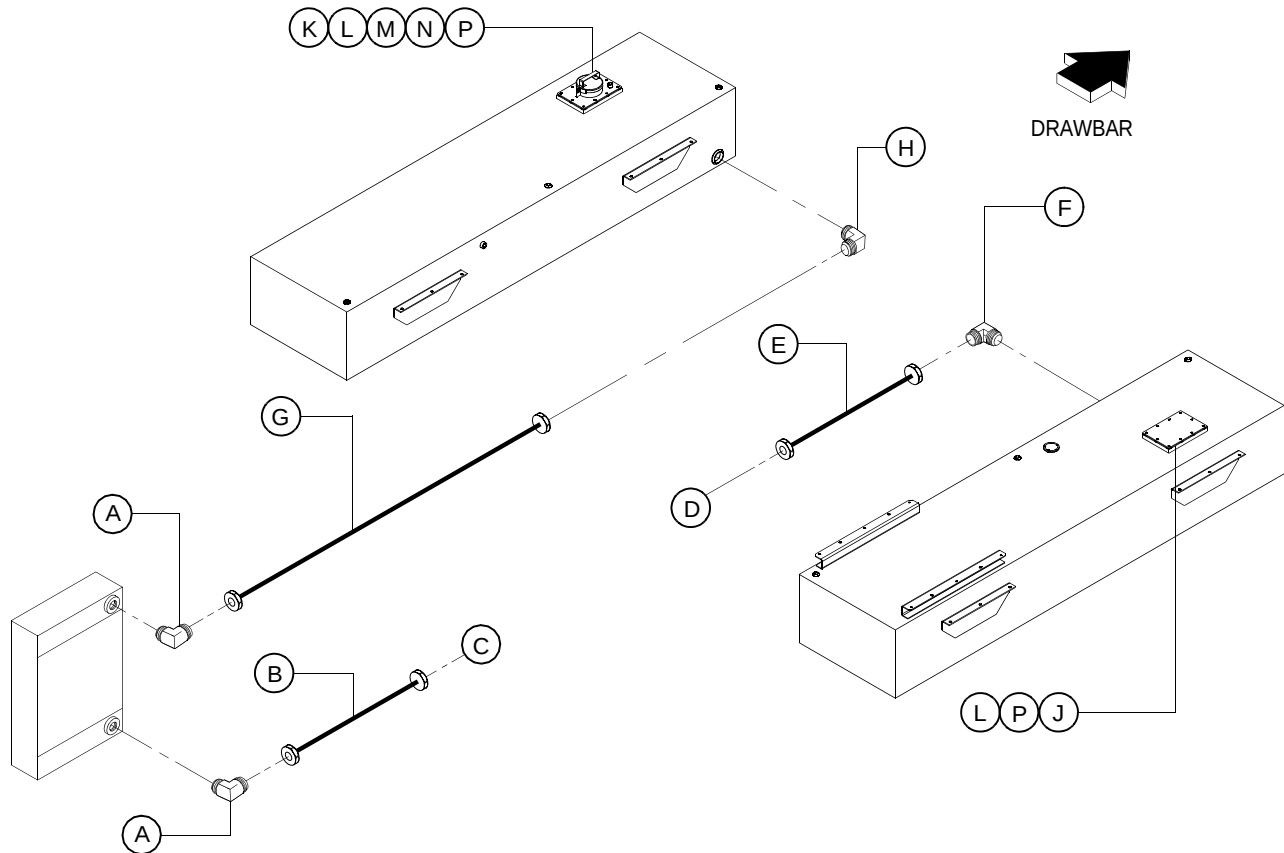
| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| A    | 22699219  | Tank, R.H. Fuel    | 1   |                  |
| B    | 54594106  | Tank, L.H. Fuel    | 1   |                  |
| C    | 35356484  | Tubing (18 Inches) | 1   |                  |
| D    | 92368687  | Screw              | 1   |                  |
| E    | 35253038  | Clamp              | 1   |                  |
| F    | 35369339  | Reducer            | 1   |                  |
| G    | 35322395  | Breather           | 1   |                  |
| H    | 35369354  | Elbow              | 1   |                  |

## High Speed Running Gear Fuel Piping



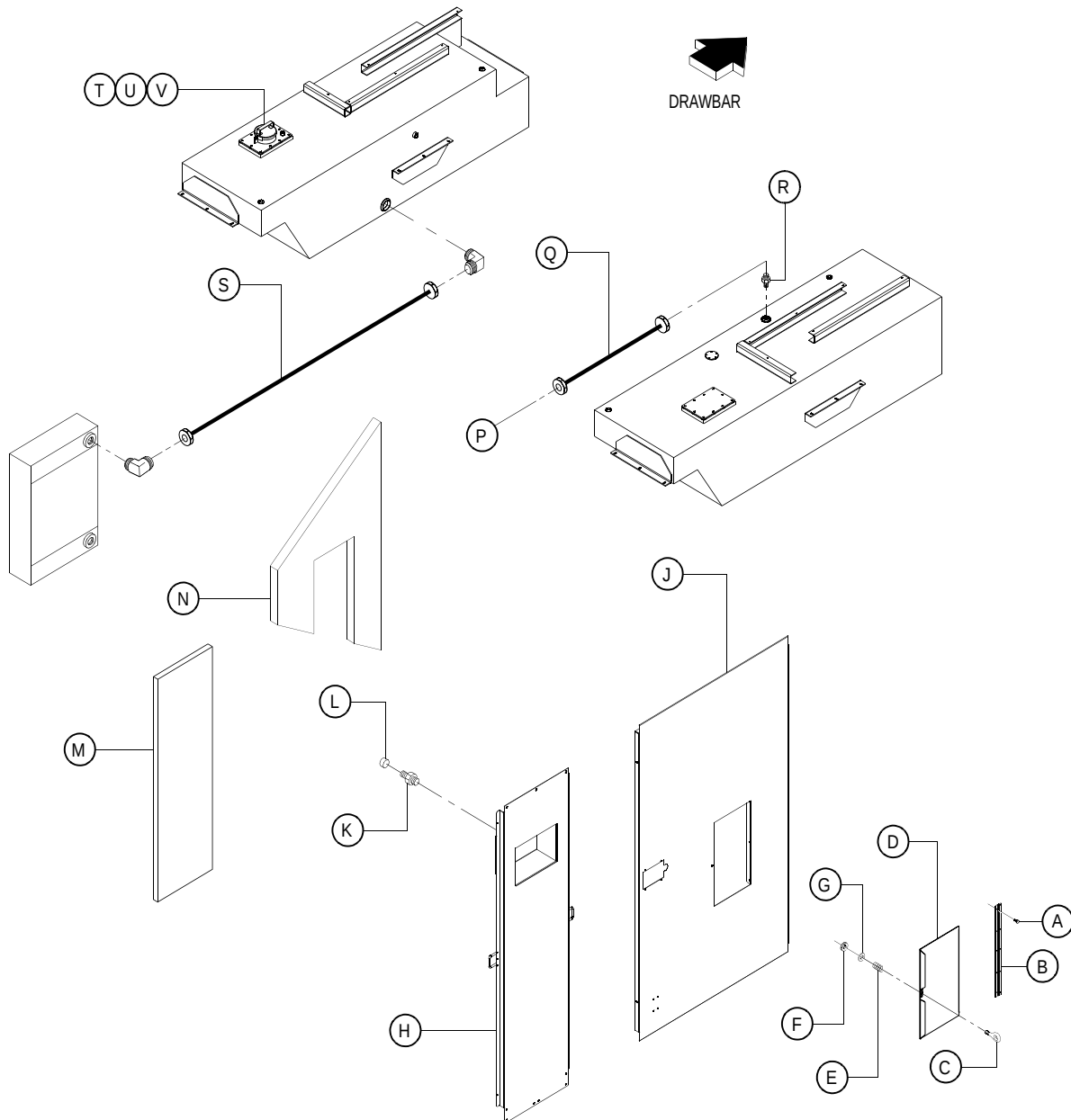
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 35279801  | Elbow                      | 1   |                  |
| B    | 35305499  | Hose Assembly              | 1   |                  |
| C    |           | Fuel Return on Engine      | -   |                  |
| D    |           | Into Fuel filter on Engine | -   |                  |
| E    | 22500607  | Hose Assembly              | 1   |                  |
| F    | 95279378  | Connector                  | 1   |                  |
| G    | 22060156  | Hose Assembly              | 1   |                  |
| H    | 35309210  | Elbow                      | 1   |                  |
| J    | 22062566  | Cover, Fuel Tank Clean-out | 1   |                  |
| K    | 36845014  | Cap, Fuel Tank             | 1   |                  |
| L    | 35389964  | Gasket, Cover              | 1   |                  |
| M    | 35389972  | Filler, Neck And Cover     | 1   |                  |
| N    | 36845022  | Strainer, Fuel Tank        | 1   |                  |
| P    | 35144328  | Screw                      | 10  |                  |
|      | 54672811  | Sender, Fuel Level         | 1   |                  |

## Wagon Wheel Running Gear Fuel Piping



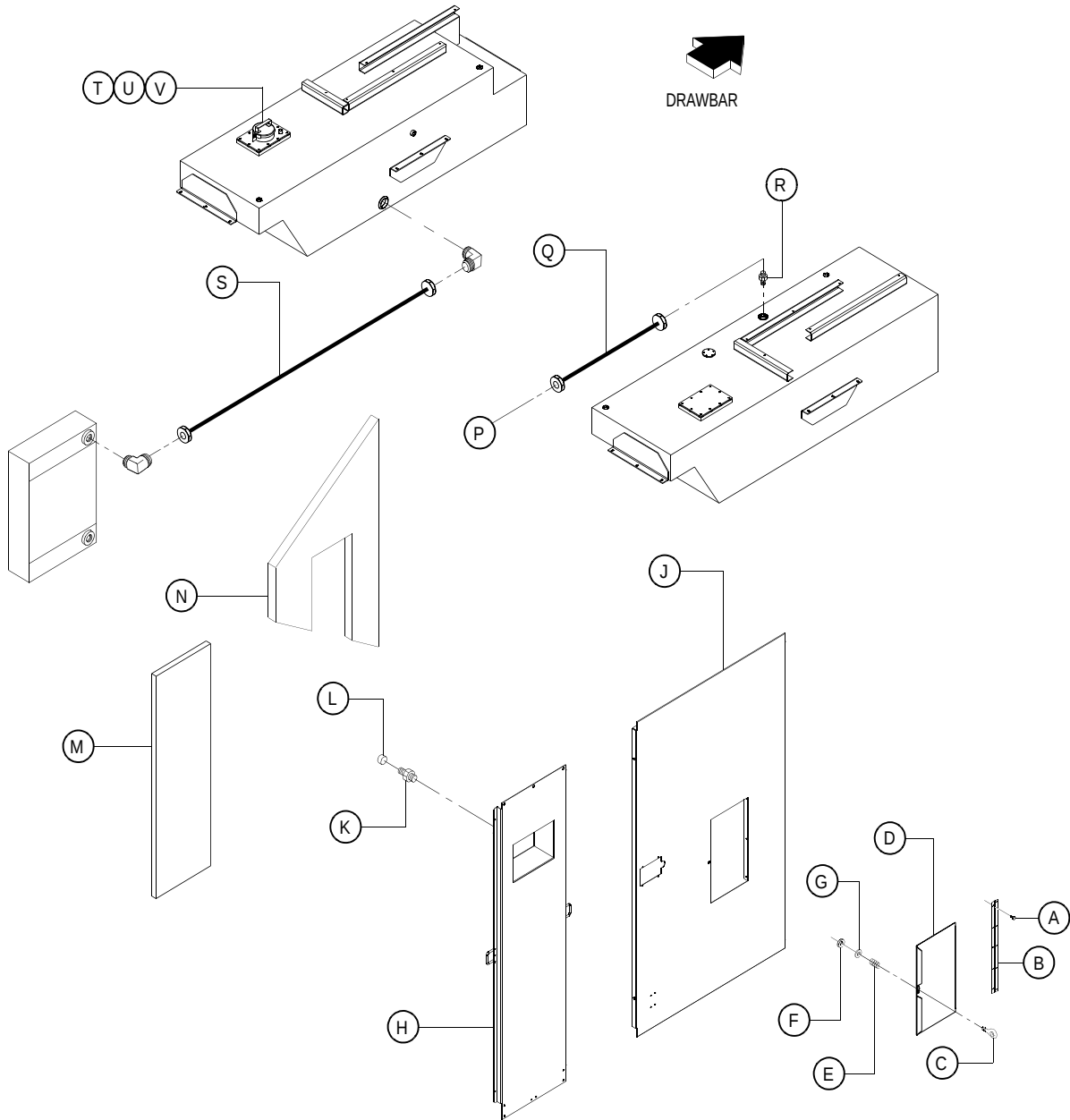
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 35279801  | Elbow                      | 1   |                  |
| B    | 35305499  | Hose Assembly              | 1   |                  |
| C    |           | Fuel Return on Engine      | -   |                  |
| D    |           | Into Fuel filter on Engine | -   |                  |
| E    | 35136548  | Hose Assembly              | 1   |                  |
| F    | 35286756  | Elbow                      | 1   |                  |
| G    | 22060156  | Hose Assembly              | 1   |                  |
| H    | 35309210  | Elbow                      | 1   |                  |
| J    | 22062566  | Cover, Fuel Tank Clean-out | 1   |                  |
| K    | 36845014  | Cap, Fuel Tank             | 1   |                  |
| L    | 35389964  | Gasket, Cover              | 1   |                  |
| M    | 35389972  | Filler, Neck And Cover     | 1   |                  |
| N    | 36845022  | Strainer, Fuel Tank        | 1   |                  |
| P    | 35144328  | Screw                      | 10  |                  |
|      | 54672803  | Sender, Fuel Level         | 1   |                  |

## High Speed Running Gear Remote Fill Fuel Piping



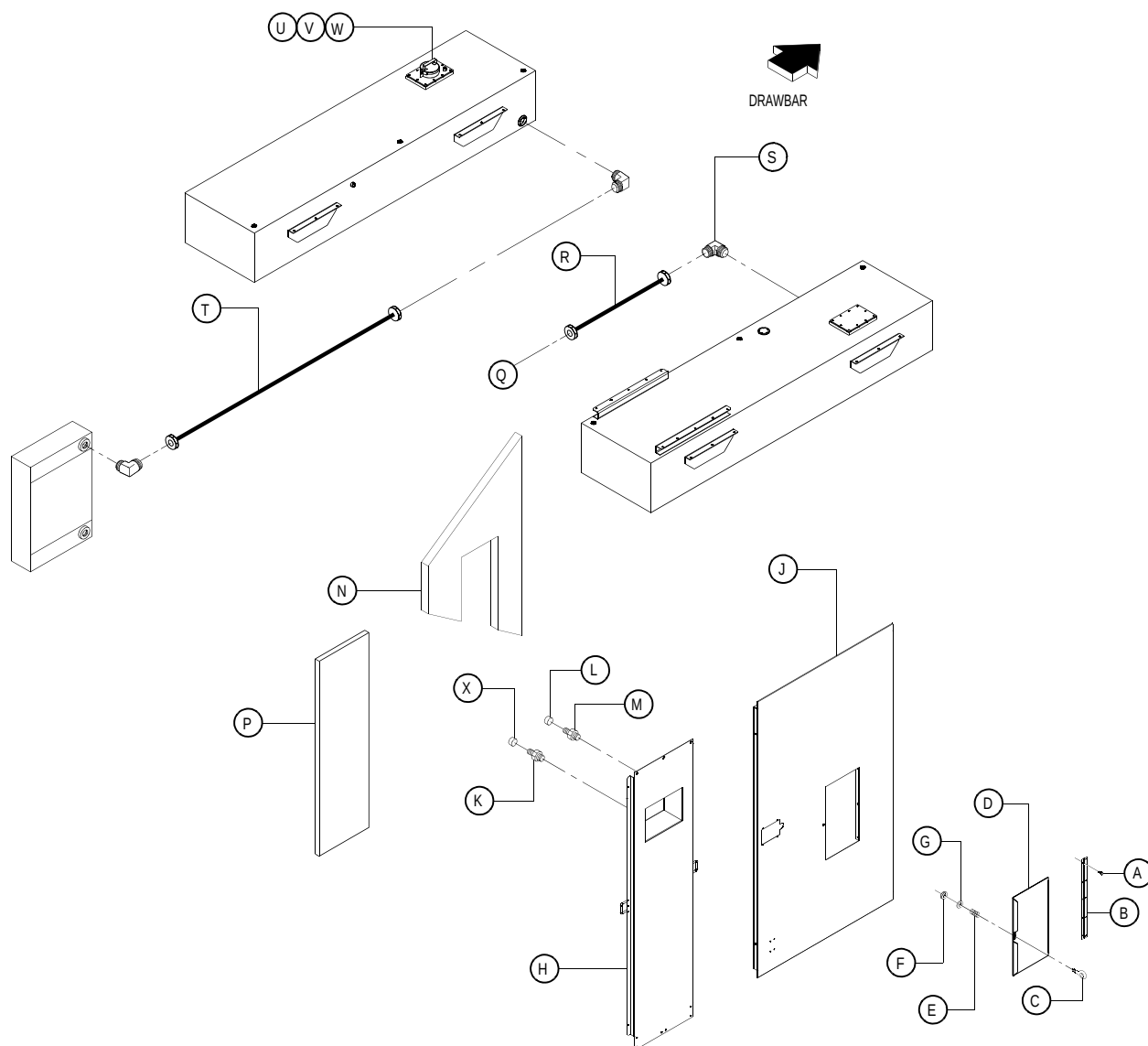
| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES      |
|------|-----------|------------------------|-----|-----------------------|
| A    | 92368687  | Screw                  | 6   |                       |
| B    | 36845733  | Hinge                  | 1   |                       |
| C    | 35327303  | Eyebolt                | 1   |                       |
| D    | 36894467  | Door, Fuel Fill        | 1   |                       |
| E    | 35327311  | Spring, Door Latch     | 1   |                       |
| F    | 95923314  | Nut                    | 1   |                       |
| G    | 95934998  | Washer                 | 2   |                       |
| H    | 22501324  | Panel, Center Side     | 1   |                       |
| J    | 22331557  | Door, Fuel Access Side | 1   |                       |
| K    | 35285451  | Union                  | 1   | <b>Continued.....</b> |

## High Speed Running Gear Remote Fill Fuel Piping



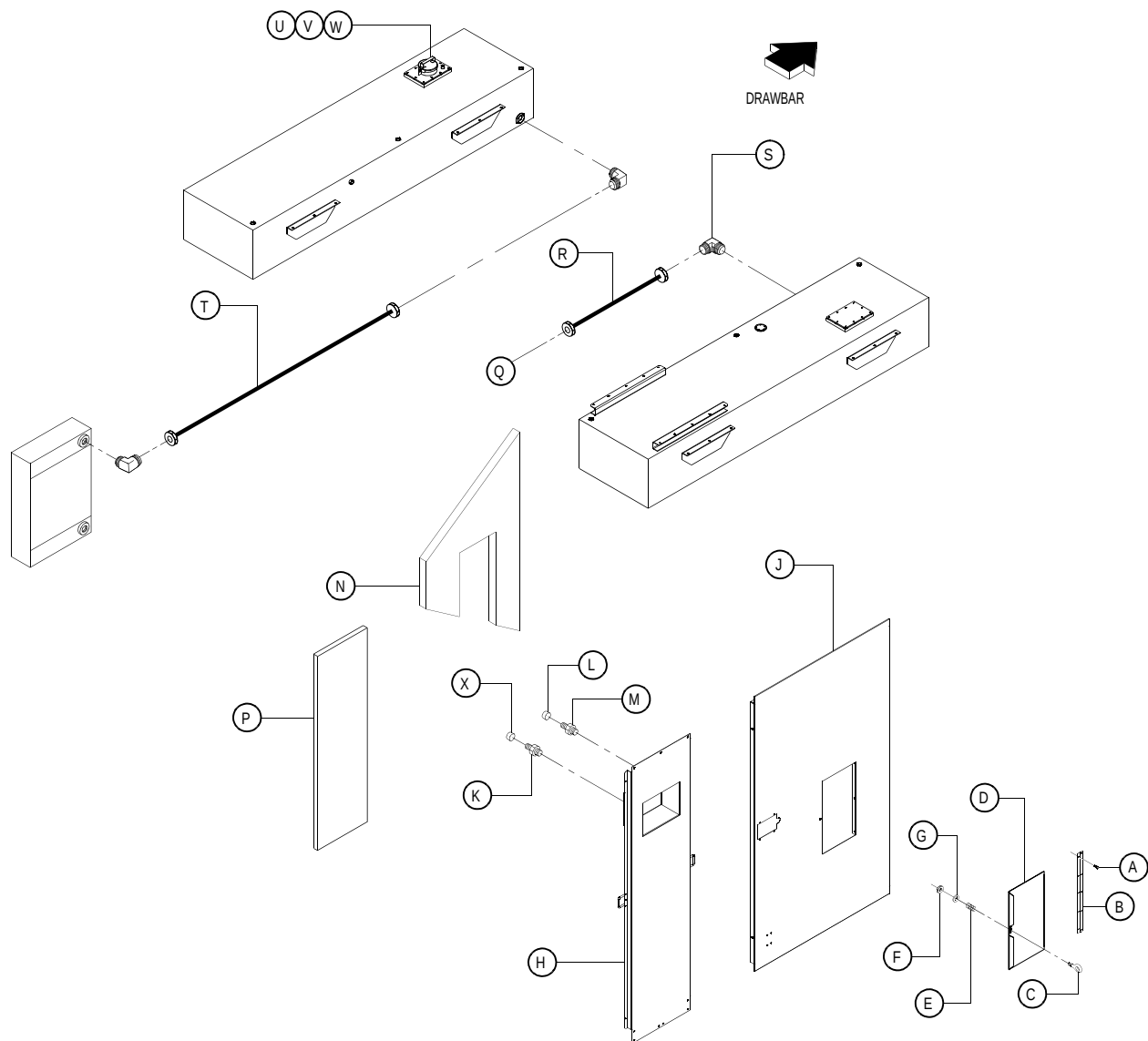
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES      |
|------|-----------|----------------------------|-----|-----------------------|
| L    | 95730172  | Cap                        | 2   | <b>.....Continued</b> |
| M    | 22332589  | Foam, Center Panel         | 1   |                       |
| N    | 22331839  | Foam, Side Door            | 1   |                       |
| P    | -----     | Into Fuel Filter on Engine |     |                       |
| Q    | 22500607  | Hose Assembly              | 1   |                       |
| R    | 95279378  | Connector                  | 1   |                       |
| S    | 22060156  | Hose Assembly              | 1   |                       |
| T    | 35389972  | Cover, Fuel Fill           | 1   |                       |
| U    | 36845022  | Strainer                   | 1   |                       |
| V    | 36845014  | Cap, Fuel Fill             | 1   |                       |

## Wagonwheel Running Gear Remote Fill Fuel Piping



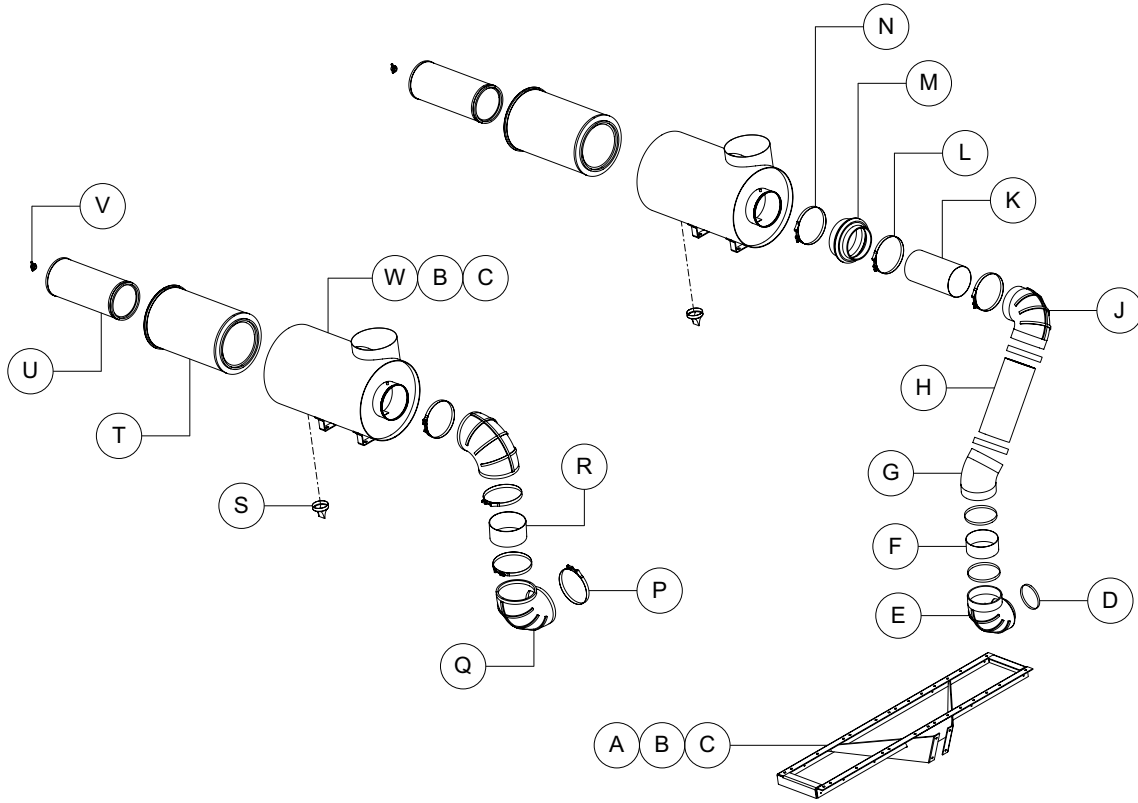
| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES      |
|------|-----------|------------------------|-----|-----------------------|
| A    | 92368687  | Screw                  | 6   | <b>Continued.....</b> |
| B    | 36845733  | Hinge                  | 1   |                       |
| C    | 35327303  | Eyebolt                | 1   |                       |
| D    | 36894467  | Door, Fuel Fill        | 1   |                       |
| E    | 35327311  | Spring, Door Latch     | 1   |                       |
| F    | 95923314  | Nut                    | 1   |                       |
| G    | 95934998  | Washer                 | 2   |                       |
| H    | 22329544  | Panel, Center Side     | 1   |                       |
| J    | 22331557  | Door, Fuel Access Side | 1   |                       |
| K    | 35285451  | Union                  | 1   |                       |
| L    | 95730172  | Cap                    | 2   |                       |

## Wagonwheel Running Gear Remote Fill Fuel Piping



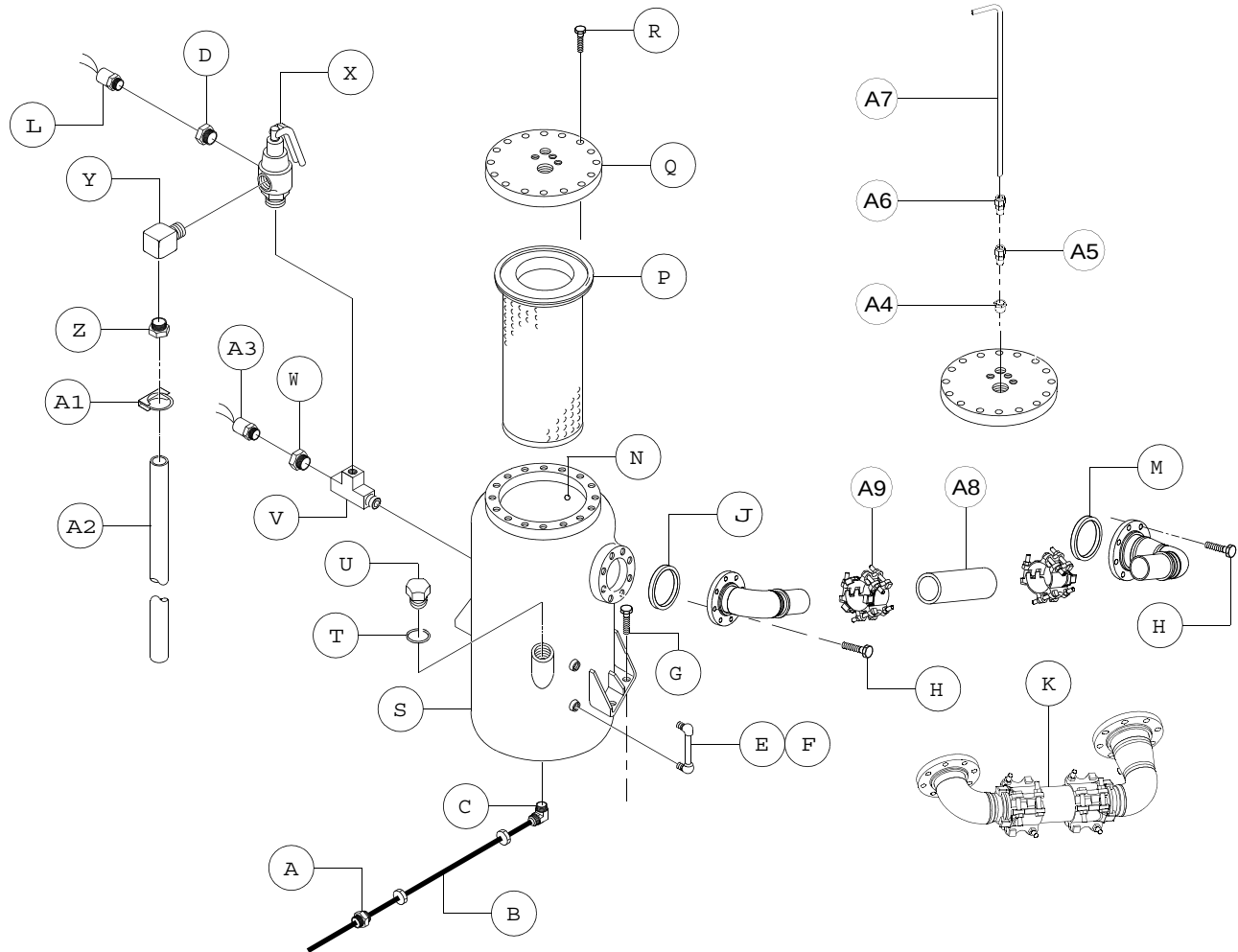
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES      |
|------|-----------|----------------------------|-----|-----------------------|
| M    | 95332599  | Connector, Bulkhead        | 1   | <b>.....Continued</b> |
| N    | 22331839  | Foam, Side Door            | 1   |                       |
| P    | 22332589  | Foam, Center Panel         | 1   |                       |
| Q    | -----     | Into Fuel Filter on Engine | 1   |                       |
| R    | 35325083  | Hose Assembly              | 1   |                       |
| S    | 35286756  | Elbow, 90                  | 1   |                       |
| T    | 22060149  | Hose Assembly              | 1   |                       |
| U    | 35389972  | Cover, Fuel                | 1   |                       |
| V    | 36845022  | Strainer, Fuel             | 1   |                       |
| W    | 36845014  | Cap, Fuel Fill             | 1   |                       |
| X    | 35313428  | Cap                        | 2   |                       |

## Air Intake & Filters



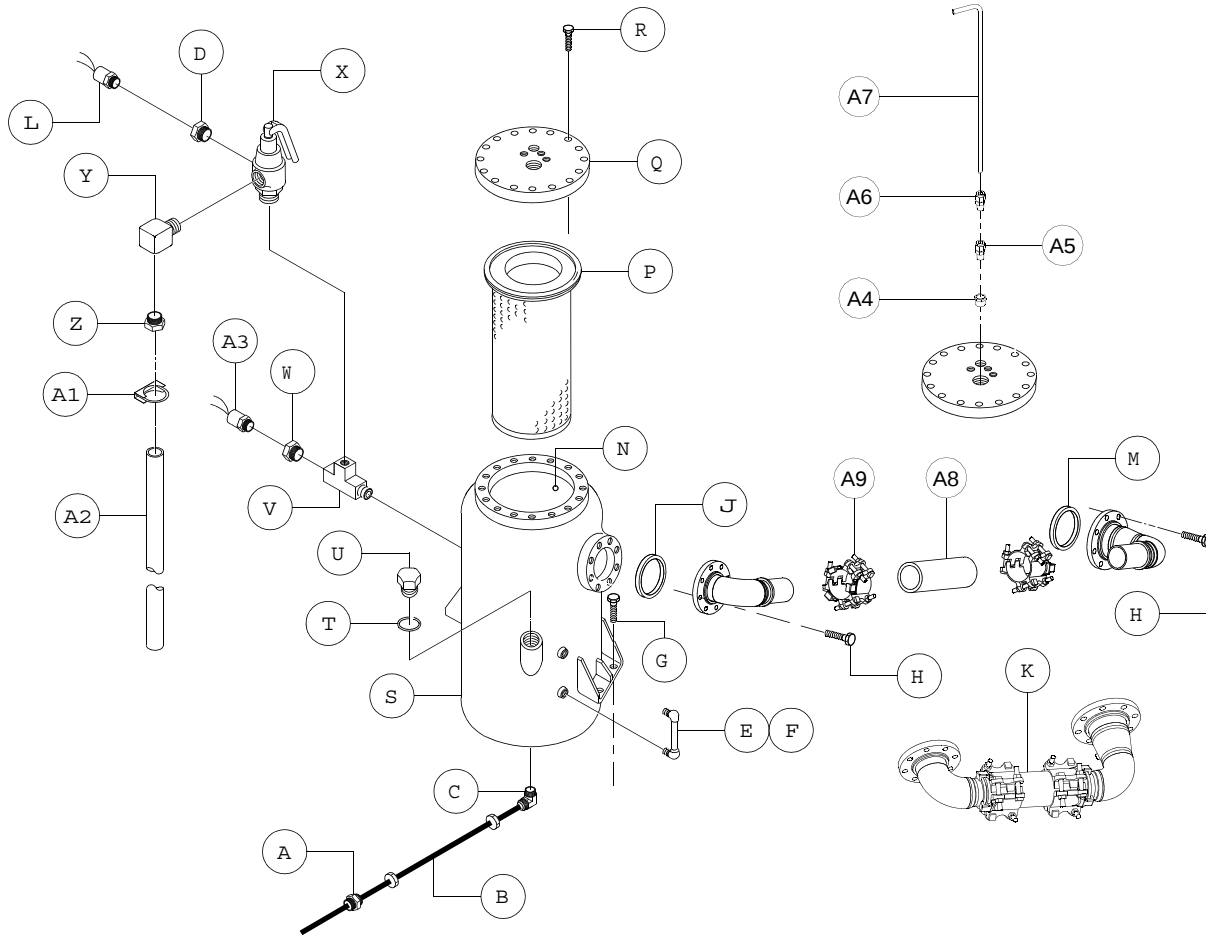
| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 36755163  | Bracket, Air Cleaner | 1   |                  |
| B    | 36880995  | Screw                | 12  |                  |
| C    | 36879195  | Nut                  | 12  |                  |
| D    | 35161025  | Clamp                | 1   |                  |
| E    | 54599956  | Elbow, Rubber        | 1   |                  |
| F    | 35112648  | Tube                 | 1   |                  |
| G    | 36758902  | Elbow Rubber         | 1   |                  |
| H    | 35123272  | Tube                 | 1   |                  |
| J    | 35112630  | Elbow, Rubber        | 1   |                  |
| K    | 35505866  | Tube                 | 1   |                  |
| L    | 35119858  | Clamp                | 8   |                  |
| M    | 35141290  | Hose, Hump           | 1   |                  |
| N    | 35129071  | Clamp                | 1   |                  |
| P    | 35129071  | Clamp                | 4   |                  |
| Q    | 36862886  | Elbow, Rubber        | 2   |                  |
| R    | 35300110  | Tube                 | 1   |                  |
| S    | 36867778  | Evacuator            | 2   |                  |
| T    | 36864361  | Element, Primary     | 2   |                  |
| U    | 36864379  | Element, Safety      | 2   |                  |
| V    | 35388982  | Nut, Wing            | 2   |                  |
| W    | 36864346  | Air Cleaner Assembly | 2   |                  |
|      | 36847838  | Switch, Air Filter   | 2   |                  |

## Separator Tank Assembly



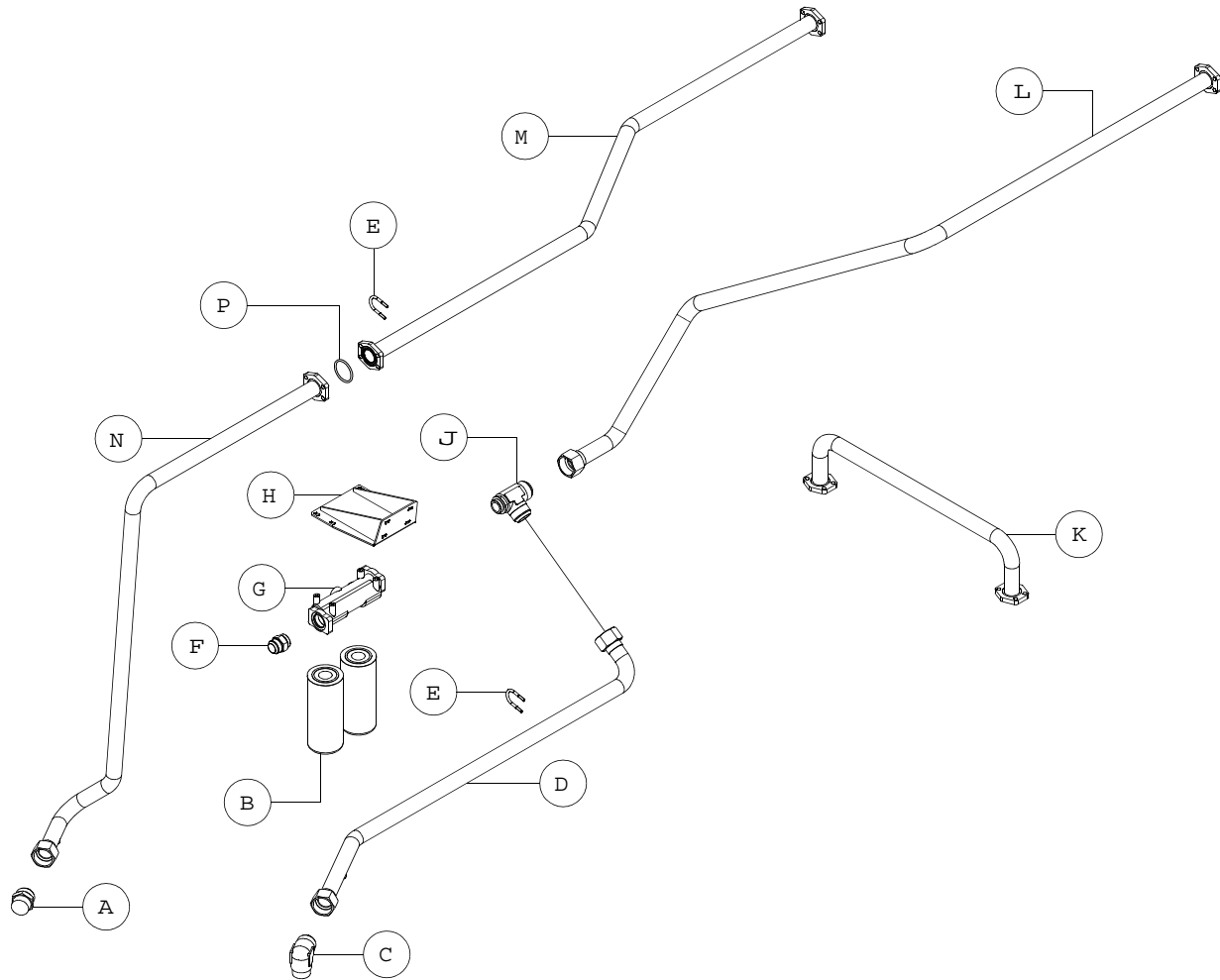
| ITEM | COMM. NO. | DESCRIPTION               | QTY | DIMENSIONS/NOTES      |
|------|-----------|---------------------------|-----|-----------------------|
| A    | 95219747  | Connector                 | 1   |                       |
| B    | 36878254  | Hose Assembly             | 1   |                       |
| C    | 35294750  | Elbow                     | 1   |                       |
| D    | 36757581  | Switch, Pressure          | 1   |                       |
| E    | 22189831  | Glass, Sight              | 1   |                       |
| F    | 54627799  | Elbow                     | 2   |                       |
| G    | 36879492  | Screw                     | 4   |                       |
| H    | 36765121  | Screw                     | 16  |                       |
| J    | 36856656  | Gasket                    | 1   |                       |
| K    | 54612437  | Discharge Hose Assembly   | 1   |                       |
| L    | 95930301  | Bushing                   | 1   |                       |
| M    | 36762961  | Gasket                    | 1   |                       |
| N    | 36754414  | Liner, Shell              | 1   |                       |
| P    | 22402317  | Element, Separator        | 1   |                       |
|      | 35610617  | Gasket ( Top Of Element ) | 1   |                       |
| Q    | 54612429  | Cover, Tank               | 1   |                       |
| R    | 95934170  | Screw                     | 16  | <b>Continued.....</b> |

## Separator Tank Assembly



| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| S    | 54612403  | Tank, Separator              | 1   | .....Continued   |
|      | 22139026  | Tank, Separator ( Japanese ) | 1   |                  |
|      | 22068811  | Tank, Separator ( EEC )      | 1   |                  |
| T    | 35277797  | O-Ring                       | 1   |                  |
| U    | 35802933  | Plug, Oil Fill               | 1   |                  |
| V    | 95954285  | Tee                          | 1   |                  |
| W    | 95942108  | Adapter                      | 1   |                  |
| X    | 36764371  | Valve, Safety                | 1   |                  |
| Y    | 95953311  | Elbow                        | 1   |                  |
| Z    | 36764389  | Adapter                      | 1   |                  |
| A1   | 35192178  | Clamp                        | 1   |                  |
| A2   | 54744149  | Pipe, Safety Valve           | 1   |                  |
| A3   | 36898922  | Sensor, Temperature          | 1   |                  |
| A4   | 95940912  | Bushing                      | 1   |                  |
| A5   | 95940748  | Bushing, Reducing            | 1   |                  |
| A6   | 35610674  | Fitting, Scavenge            | 1   |                  |
| A7   | 36794303  | Tube, Scavenge               | 1   |                  |
| A8   | 22209779  | Hose                         | 1   |                  |
| A9   | 22209787  | Clamp                        | 2   |                  |

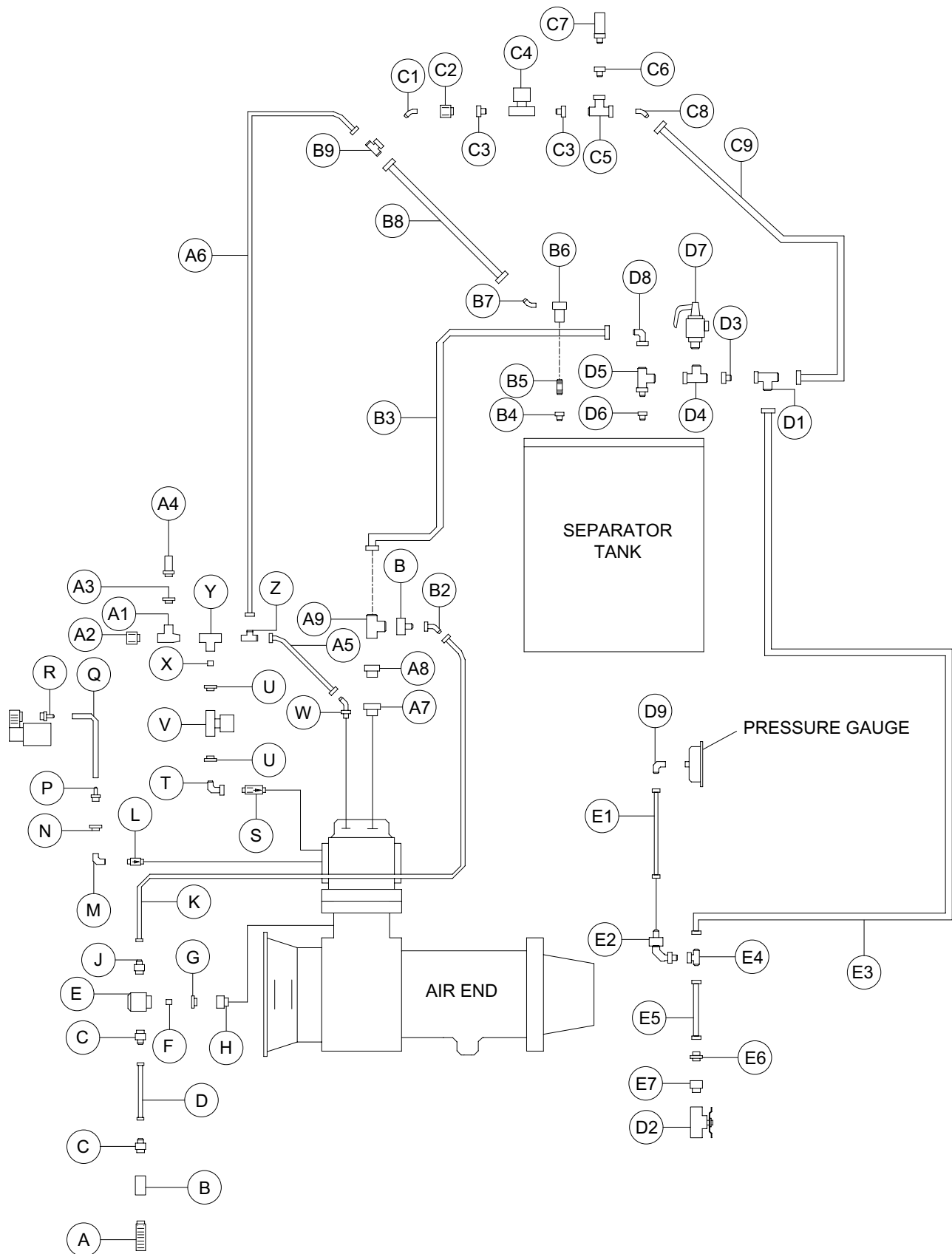
## 285 Oil Piping



| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------|-----|------------------|
| A    | 35335124  | Connector       | 1   |                  |
| B    | 36897346  | Element, Filter | 1   |                  |
| C    | 95286910  | Elbow           | 1   |                  |
| D    | 54625348  | Tube Assembly   | 1   |                  |
| E    | 36506756  | Clamp           | 1   |                  |
| F    | 35296409  | Connector       | 1   |                  |
| G    | 39871306  | Head, Filter    | 1   |                  |
| H    | 54625173  | Bracket, Filter | 1   |                  |
| J    | 36756906  | Tee             | 1   |                  |
| K    | 54628185  | Tube Assembly   | 1   |                  |
| L    | 54625363  | Tube Assembly   | 1   |                  |
| M    | 54628177  | Tube Assembly   | 1   |                  |
| N    | 54625355  | Tube Assembly   | 1   |                  |
| P    | 95357976  | O-Ring          | 4   |                  |



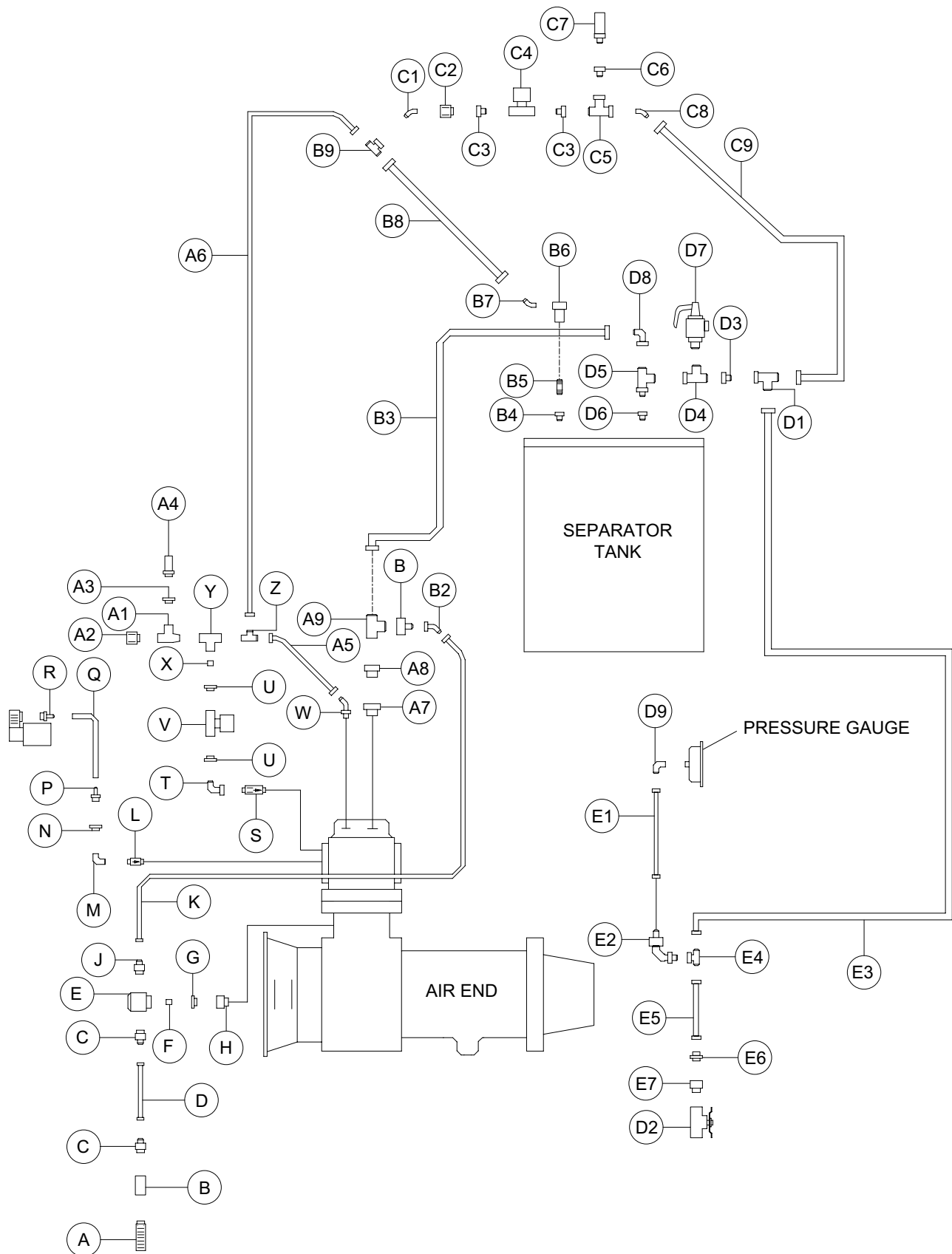
# Air Piping



# Air Piping

| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES      |
|------|-----------|-----------------|-----|-----------------------|
| A    | 36762623  | Silencer        |     |                       |
| B    | 95989554  | Coupling        |     |                       |
| C    | 35290147  | Connector       |     |                       |
| D    | 35282987  | Hose Assembly   |     |                       |
| E    | 35335017  | Valve, Blowdown |     |                       |
| F    | 95944575  | Nipple          |     |                       |
| G    | 95944633  | Bushing         |     |                       |
| H    | 35279116  | Adapter         |     |                       |
| J    | 35283126  | Connector       |     |                       |
| K    | 35298512  | Hose Assembly   |     |                       |
| L    | 35248145  | Valve, Check    |     |                       |
| M    | 95954095  | Elbow           |     |                       |
| N    | 95930301  | Bushing         |     |                       |
| P    | 95287629  | Adapter         |     |                       |
| Q    | 35358662  | Hose Assembly   |     |                       |
| R    | 95287629  | Adapter         |     |                       |
| S    | 36840460  | Valve, Check    |     |                       |
| T    | 35294453  | Elbow           |     |                       |
| U    | 95940748  | Bushing         |     |                       |
| V    | 36840841  | Valve, Solenoid |     |                       |
| W    | 35279835  | Elbow           |     |                       |
| X    | 95944575  | Nipple          |     |                       |
| Y    | 95954194  | Tee             |     |                       |
| Z    | 35283050  | Tee             |     |                       |
| A1   | 95944690  | Tee             |     |                       |
| A2   | 35322346  | Orifice, .156   |     |                       |
| A3   | 95930301  | Bushing         |     |                       |
| A4   | 36920825  | Reducer         |     |                       |
| A5   | 36841815  | Tube Assembly   |     |                       |
| A6   | 35284538  | Hose Assembly   |     |                       |
| A7   | 35280510  | Adapter         |     |                       |
| A8   | 95944617  | Bushing         |     |                       |
| A9   | 35330117  | Tee             |     |                       |
| B1   | 35365774  | Reducer         |     |                       |
| B2   | 35287911  | Elbow           |     |                       |
| B3   | 35298512  | Hose Assembly   |     |                       |
| B4   | 95944625  | Bushing         |     |                       |
| B5   | 95944575  | Nipple          |     |                       |
| B6   | 36854495  | Regulator       |     |                       |
| B7   | 35279934  | Elbow           |     |                       |
| B8   | 35282953  | Hose Assembly   |     |                       |
| B9   | 35283092  | Tee             |     |                       |
|      |           |                 |     | <i>Continued.....</i> |

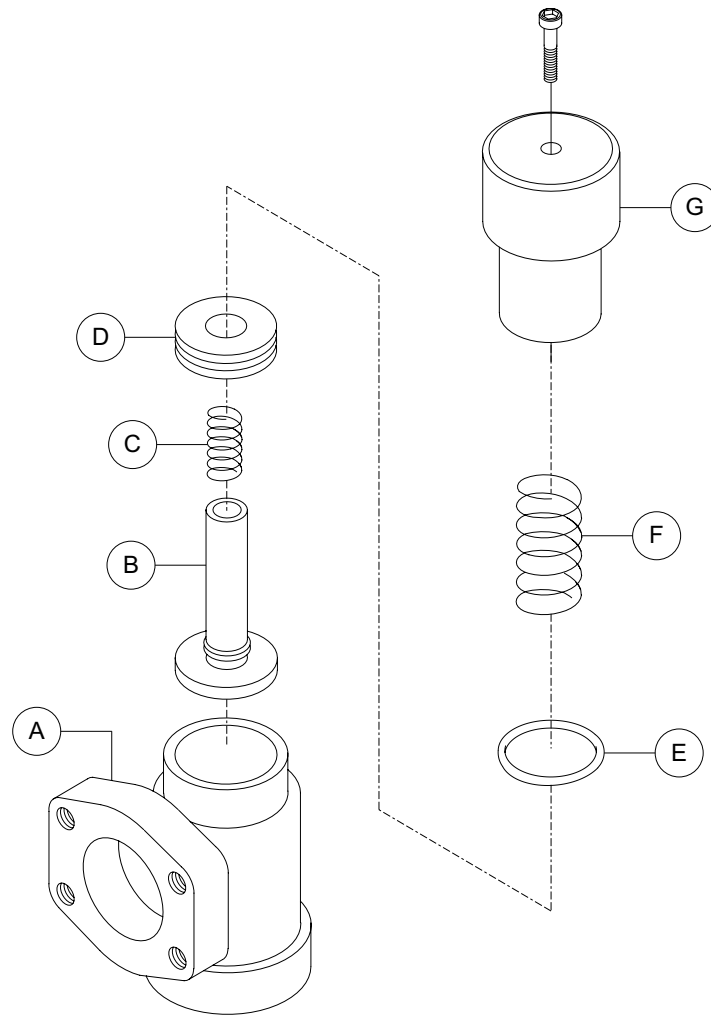
# Air Piping



# Air Piping

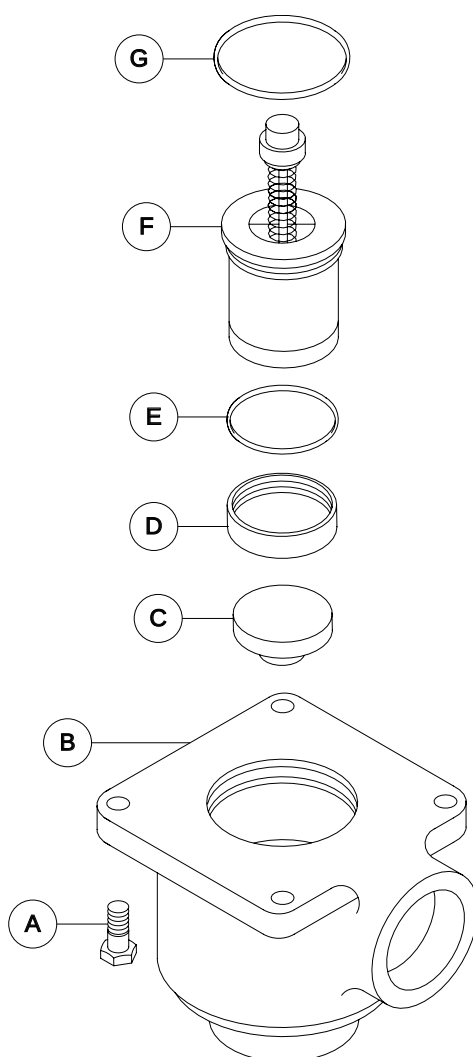
| ITEM | COMM. NO. | DESCRIPTION       | QTY | DIMENSIONS/NOTES      |
|------|-----------|-------------------|-----|-----------------------|
| C1   | 35290253  | Elbow             |     | <i>.....Continued</i> |
| C2   | 35123124  | Orifice           |     |                       |
| C3   | 95940748  | Bushing           |     |                       |
| C4   | 36840841  | Valve, Solenoid   |     |                       |
|      | 36842086  | Bracket, Top      |     |                       |
|      | 36842094  | Bracket, Bottom   |     |                       |
| C5   | 95944690  | Tee               |     |                       |
| C6   | 95930301  | Bushing           |     |                       |
| C7   | 54496773  | Reducer           |     |                       |
| C8   | 35279934  | Elbow             |     |                       |
| C9   | 35282961  | Hose Assembly     |     |                       |
| D1   | 95954210  | Tee               |     |                       |
| D2   | 35324839  | Valve, Ball       |     |                       |
| D3   | 95944633  | Reducer           |     |                       |
| D4   | 95954285  | Tee               |     |                       |
| D5   | 35330117  | Tee               |     |                       |
| D6   | 36863702  | Adapter           |     |                       |
| D7   | 22061394  | Valve, Safety     |     |                       |
| D8   | 35301506  | Elbow             |     |                       |
| D9   | 35280098  | Elbow             |     |                       |
| E1   | 35282979  | Hose Assembly     |     |                       |
| E2   | 36852499  | Elbow             |     |                       |
| E3   | 35310994  | Hose Assembly     |     |                       |
| E4   | 35283092  | Tee               |     |                       |
| E5   | 35282961  | Hose Assembly     |     |                       |
| E6   | 35336189  | Fitting, Bulkhead |     |                       |
| E7   | 35367846  | Connector         |     |                       |

## Minimum Pressure Check Valve Assembly



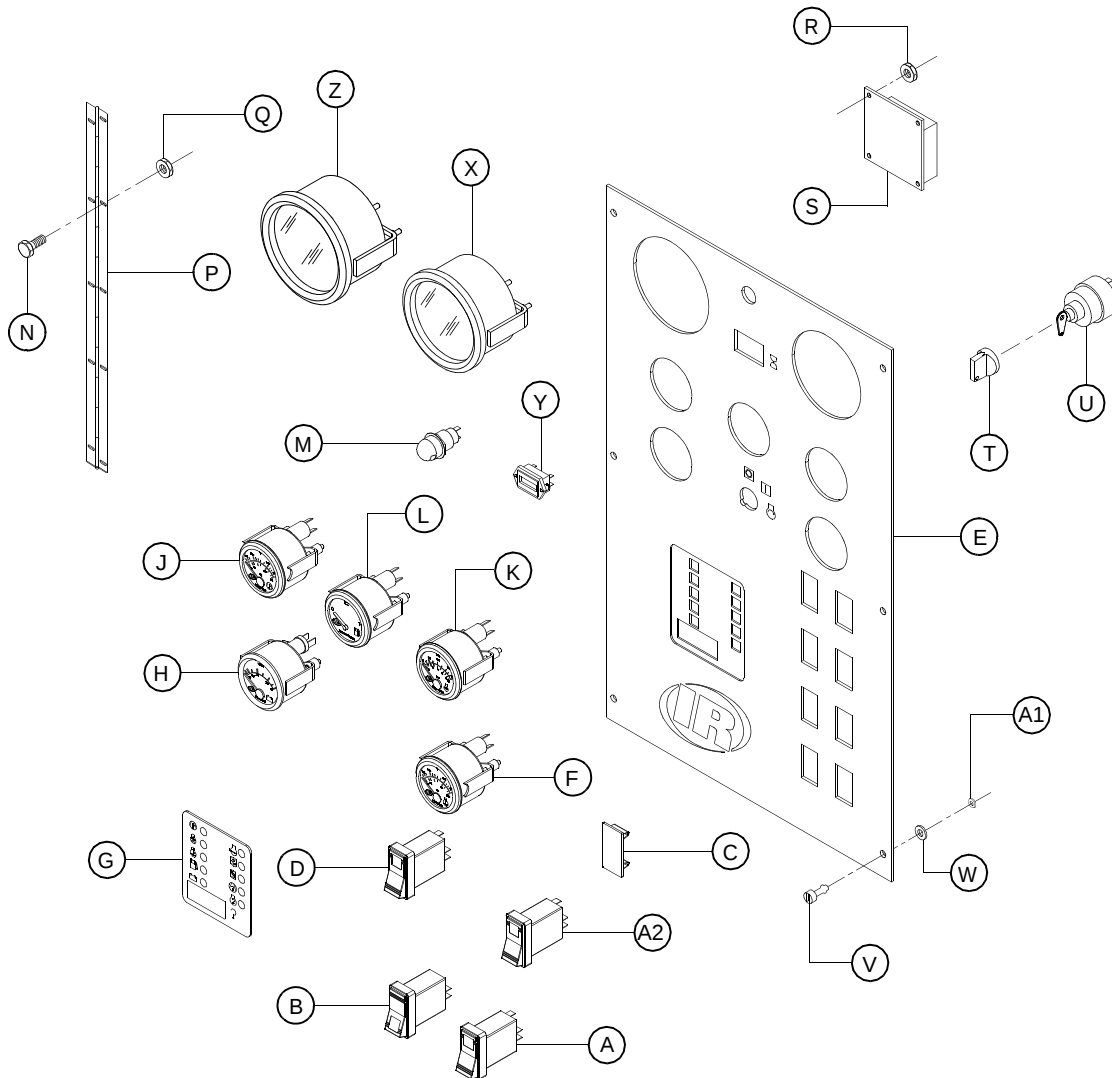
| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 54699731  | Body, Check Valve    | 1   |                  |
| B    | 36792380  | Check Valve Assembly | 1   |                  |
| C    | 54699749  | Spring, Check Valve  | 1   |                  |
| D    | 36792927  | Piston               | 1   |                  |
| E    | 54699756  | O-Ring               | 1   |                  |
| F    | 36794790  | Spring, Main         | 1   |                  |
| G    | 36794808  | Cap                  | 1   |                  |

## Oil Temperature By-Pass Valve Assembly



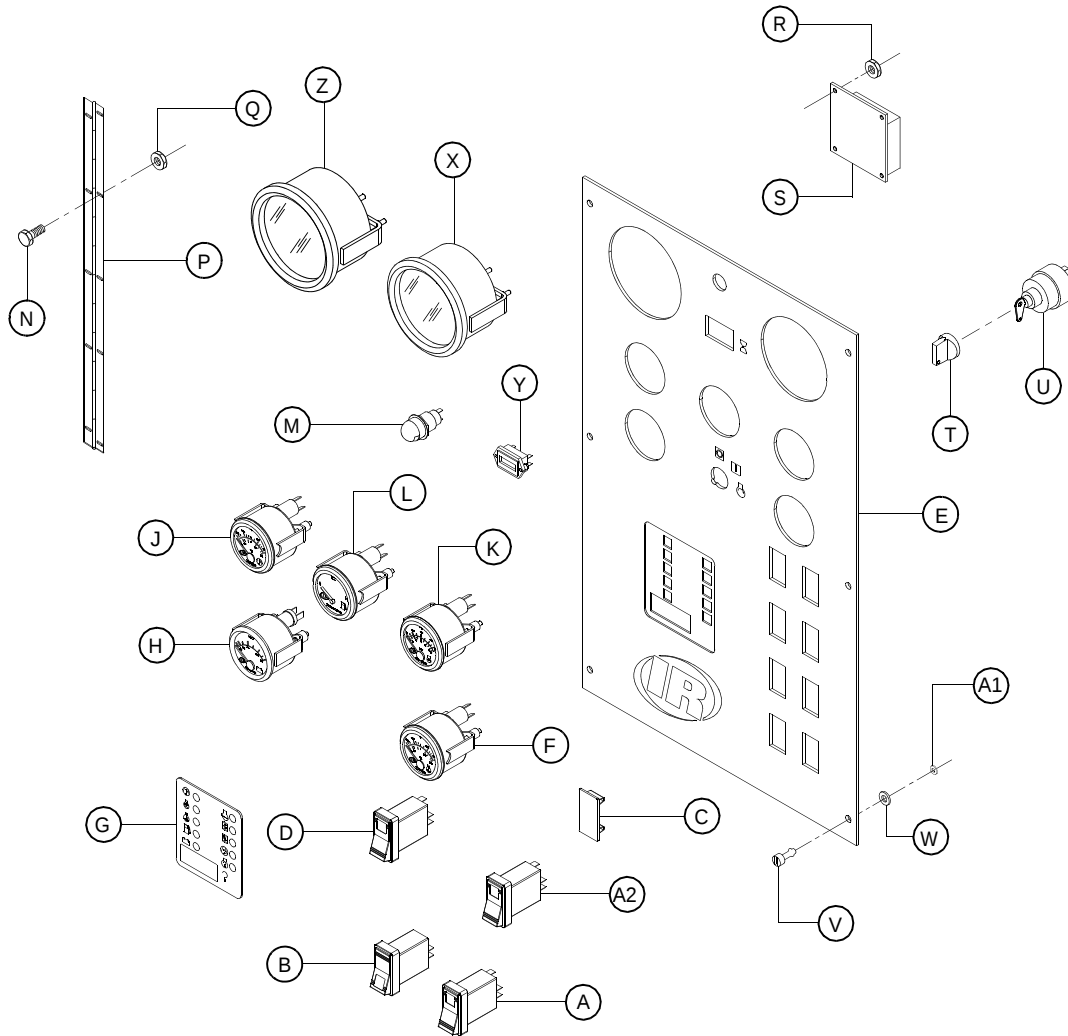
| ITEM | COMM. NO. | DESCRIPTION                               | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------------------------|-----|------------------|
| A    | 96701917  | Screw                                     | 4   |                  |
| B    | 35307537  | Body, Valve                               | 1   |                  |
| C    | 35307545  | Seat, Valve                               | 1   |                  |
| D    | 35307552  | Sleeve, Valve                             | 1   |                  |
| E    | 35307560  | Seal, Valve                               | 1   |                  |
| F    | 22694640  | Element, Valve                            | 1   |                  |
| G    | 35307586  | Gasket, Valve                             | 1   |                  |
|      | 22711774  | Oil Temp. By-pass Valve Assembly          | 1   |                  |
|      | 22711766  | Service Kit ( Includes Items: E, F, & G ) | 1   |                  |

## Instrument Panel Assembly



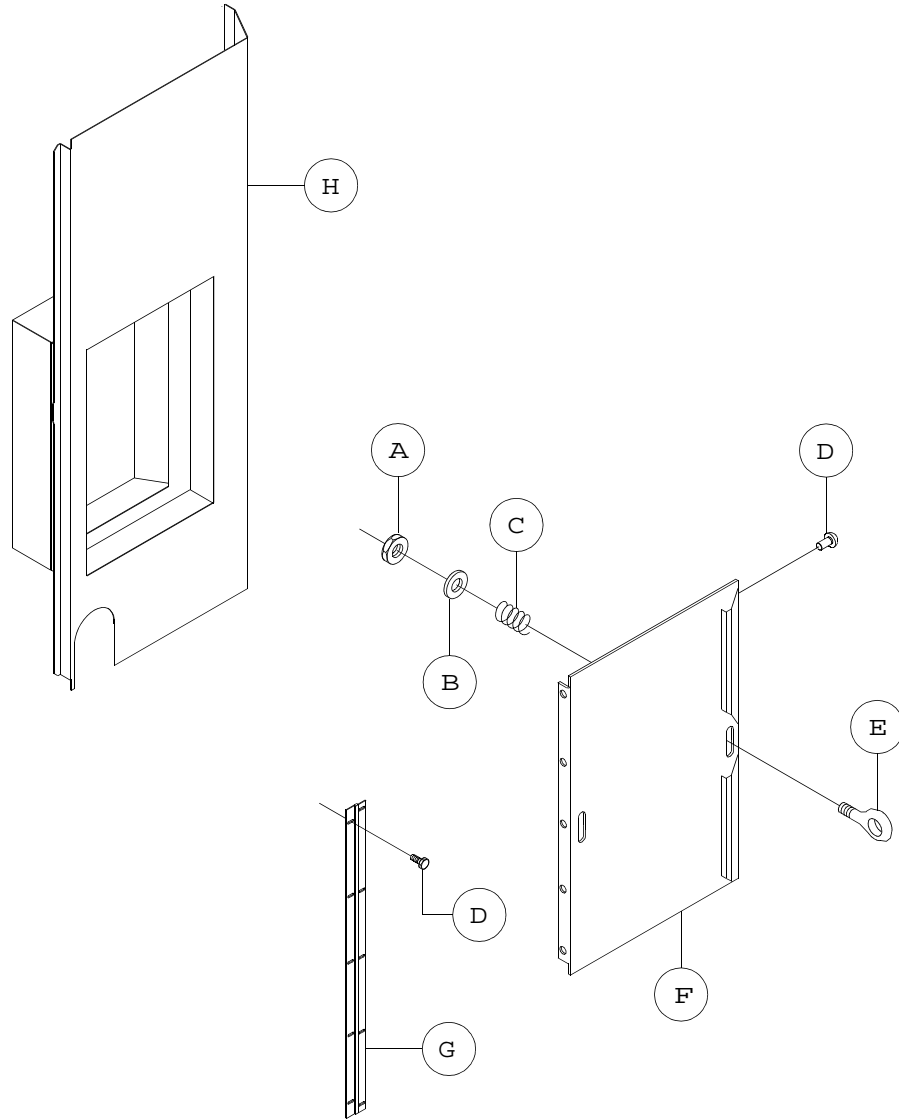
| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES      |
|------|-----------|---------------------------------|-----|-----------------------|
| A    | 22053896  | Switch, Lamps                   | 1   | <b>Continued.....</b> |
| B    | 22054050  | Switch, Heater                  | 1   |                       |
| C    | 22054142  | Plug, Switch                    | 5   |                       |
| D    | 22054076  | Switch, After Warm-Up           | 1   |                       |
| E    | 22105571  | Panel, Instrument               | 1   |                       |
| F    | 22277057  | Gage, Engine Oil Pressure       | 1   |                       |
| G    | 22055800  | Overlay, Module                 | 1   |                       |
| H    | 22399349  | Gage, Voltage                   | 1   |                       |
| J    | 22327266  | Gage, Air Discharge Temperature | 1   |                       |
| K    | 22327266  | Gage, Water Temperature         | 1   |                       |

## Instrument Panel Assembly



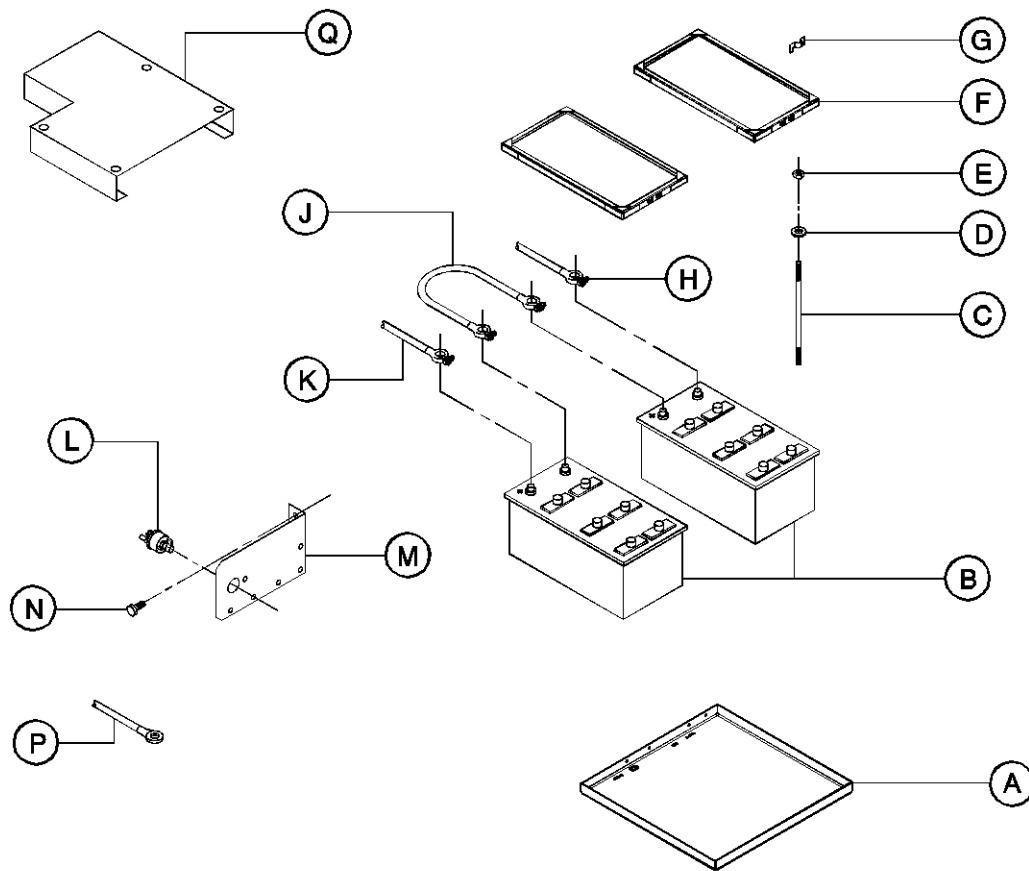
| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES      |
|------|-----------|--------------------------|-----|-----------------------|
| L    | 22050991  | Gage, Fuel Level         | 1   | <b>.....Continued</b> |
| M    | 36852622  | Light, Instrument Panel  | 1   |                       |
| N    | 36898096  | Screw                    | 3   |                       |
| P    | 36840908  | Hinge                    | 1   |                       |
| Q    | 36898104  | Nut                      | 3   |                       |
| R    | 95928800  | Nut                      | 4   |                       |
| S    | 22173579  | Module, Wedge            | 1   |                       |
| T    | 22134118  | Knob, Switch             | 1   |                       |
| U    | 22127385  | Switch, Starter          | 1   |                       |
| V    | 36844124  | Screw, Quarter Turn      | 6   |                       |
| W    | 35314582  | Receptacle               | 3   |                       |
| X    | 22055883  | Tachometer               | 1   |                       |
| Y    | 54766704  | Hourmeter                | 1   |                       |
| Z    | 36840767  | Gage, Discharge Pressure | 1   |                       |
| A1   | 35369180  | Retainer                 | 3   |                       |
| A2   | 22054068  | Switch, Ether            | 1   |                       |

## Instrument Panel Assembly



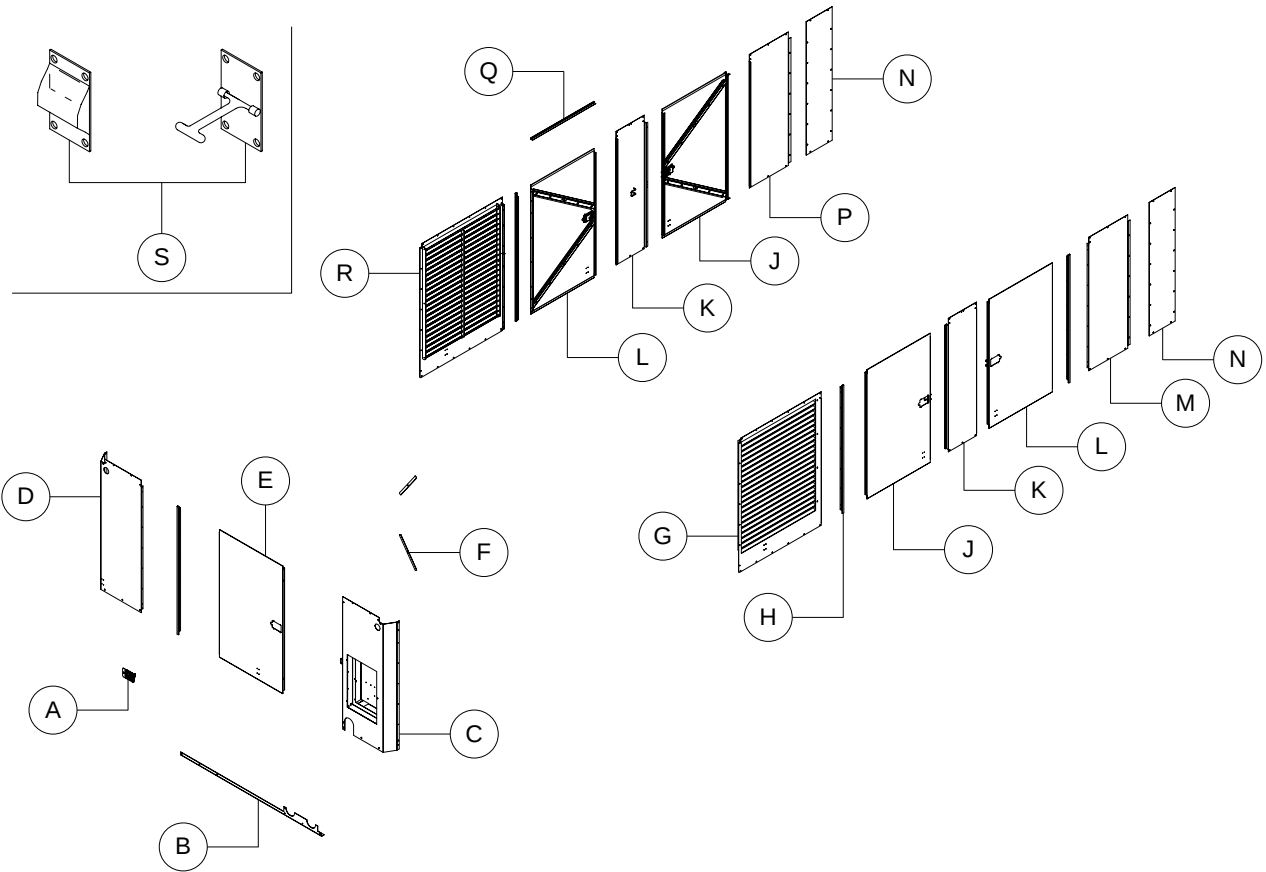
| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------|-----|------------------|
| A    | 95923314  | Nut                    | 2   |                  |
| B    | 95934998  | Washer                 | 2   |                  |
| C    | 35327311  | Spring                 | 2   |                  |
| D    | 92368687  | Screw                  | 7   |                  |
| E    | 35327303  | Eyebolt                | 2   |                  |
| F    | 22471882  | Door, Instrument Panel | 1   |                  |
| G    | 36740405  | Hinge                  | 1   |                  |
| H    | 22471890  | Panel, Vertical        | 1   |                  |

## Battery & Mounting



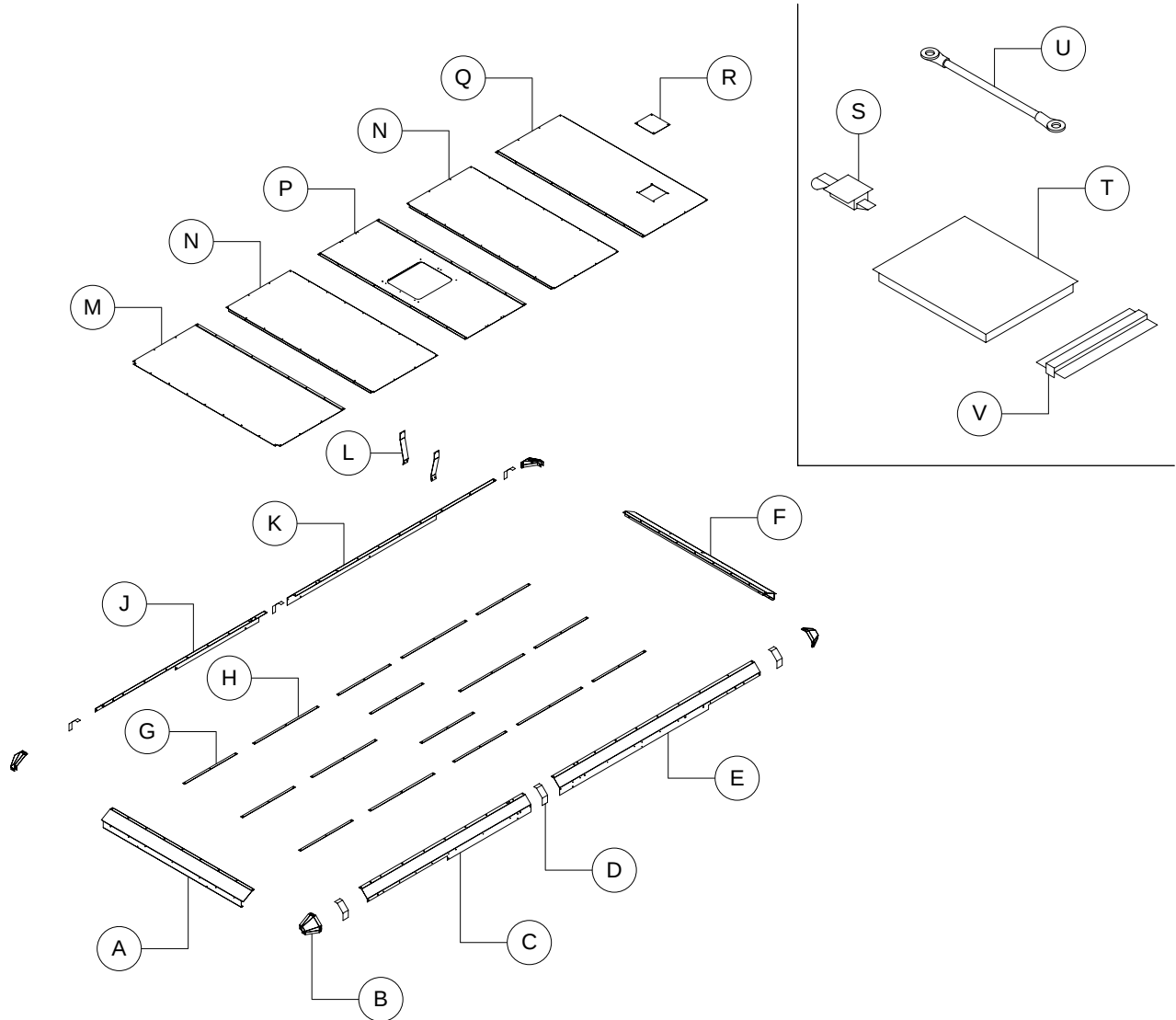
| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 36870350  | Tray, Battery                | 1   |                  |
| B    | 35225788  | Battery                      | 2   |                  |
| C    | 54715479  | Stud                         | 4   |                  |
| D    | 95935037  | Washer                       | 8   |                  |
| E    | 95923322  | Nut                          | 8   |                  |
| F    | 35562156  | Frame                        | 2   |                  |
| G    | 35108216  | Clip                         | 4   |                  |
| H    | 36780609  | Cable, Negative              | 1   |                  |
| J    | 35128982  | Cable, Jumper                | 1   |                  |
| K    | 54765375  | Cable, Positive              | 1   |                  |
| L    | 36896975  | Switch, Master Cut-Off       | 1   |                  |
| M    | 54737400  | Bracket, Switch              | 1   |                  |
| N    | 35279025  | Screw                        | 2   |                  |
| P    | 54765383  | Cable, Master Switch         | 1   |                  |
| Q    | 54706825  | Cover, Battery               | 1   |                  |
|      | 35578194  | Ground Strap From Starter    | 1   |                  |
|      | 35293075  | Ground Strap To RH of Engine | 1   |                  |

## Common Enclosure Assembly



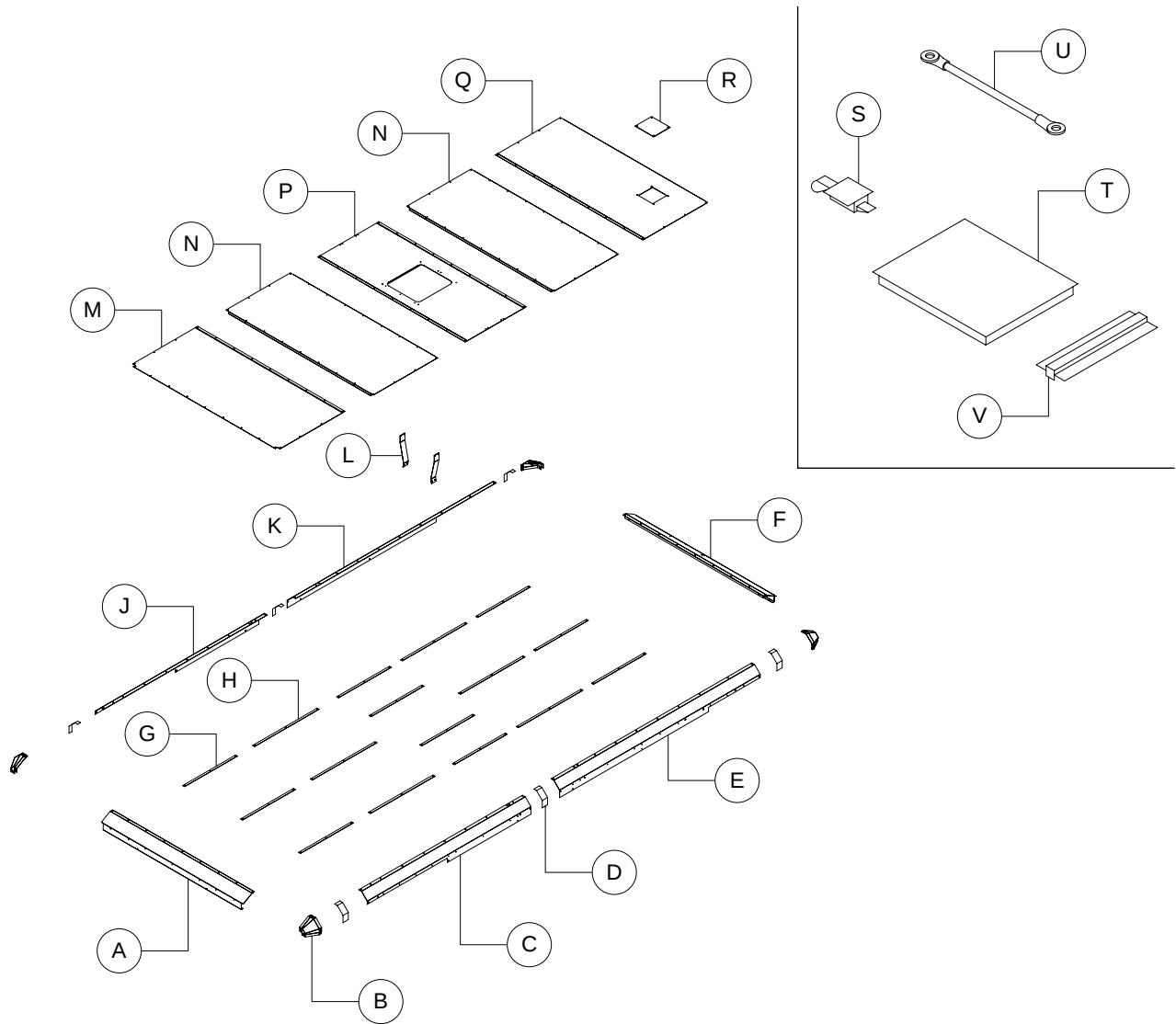
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 36793602  | Latch, Door Slam           | 5   |                  |
| B    | 54576871  | Brace, Front Panel         | 1   |                  |
| C    | 22471890  | Panel, LH Front            | 1   |                  |
|      | 22475560  | Panel, LH Front (IQ Units) | 1   |                  |
| D    | 54576947  | Panel, RH Front            | 1   |                  |
|      | 22055750  | Panel, RH Front (IQ Units) | 1   |                  |
| E    | 36863363  | Door, Front                | 1   |                  |
| F    | 54718184  | Brace, Front               | 2   |                  |
| G    | 54587944  | Grille, LH Front Side      | 1   |                  |
| H    | 36863413  | Hinge                      | 5   |                  |
| J    | 36863660  | Door, Side                 | 1   |                  |
| K    | 54587969  | Panel, Center              | 1   |                  |
| L    | 36863652  | Door, Side                 | 1   |                  |
| M    | 54587977  | Panel, LH Rear Side        | 1   |                  |
| N    | 54663240  | Panel, Rear Side           | 1   |                  |
| P    | 54587985  | Panel, RH Rear Side        | 1   |                  |
| Q    | 36863371  | Angle, Door Drip           | 5   |                  |
| R    | 54587951  | Grille, RH Front Side      | 1   |                  |
| S    | 36849925  | Latch, Door                | 5   |                  |

## Top Enclosure Assembly



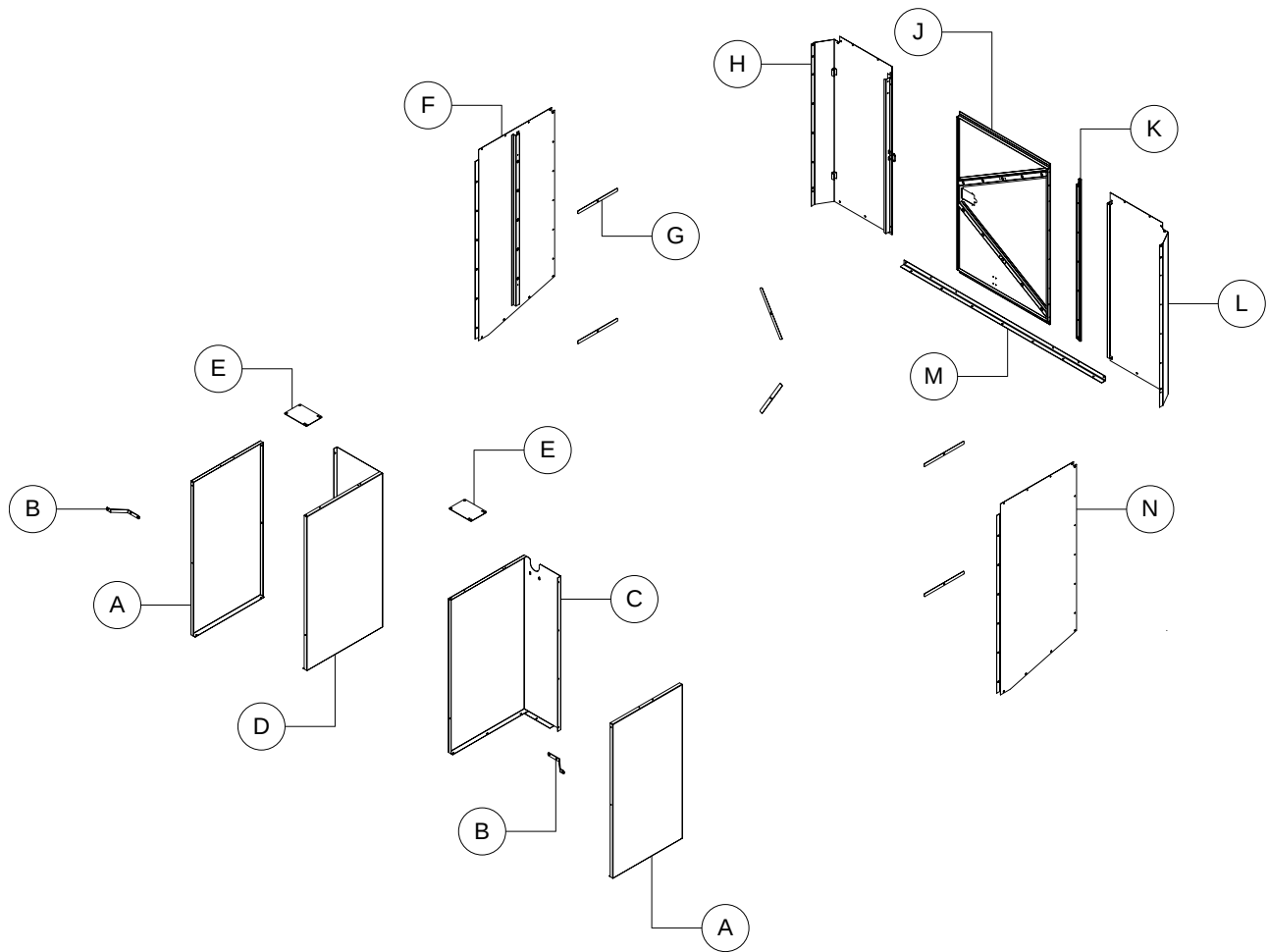
| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES      |
|------|-----------|--------------------|-----|-----------------------|
| A    | 54576970  | Cap, Front End     | 1   | <i>Continued.....</i> |
| B    | 36755981  | Cap, Corner        | 4   |                       |
| C    | 54690110  | Cap, LH Front Side | 1   |                       |
| D    | 36755742  | Bracket, Filler    | 6   |                       |
| E    | 54690128  | Cap, LH Rear Side  | 1   |                       |
| F    | 54584784  | Cap, Rear End      | 1   |                       |
| G    | 54747316  | Brace, Top Foam    | 8   |                       |
| H    | 54747324  | Brace, Top Foam    | 8   |                       |
| J    | 54663224  | Cap, RH Front Top  | 1   |                       |
| K    | 54663232  | Cap, RH Rear Top   | 1   |                       |
| L    | 54700091  | Brace, Center Roof | 2   |                       |

## Top Enclosure Assembly



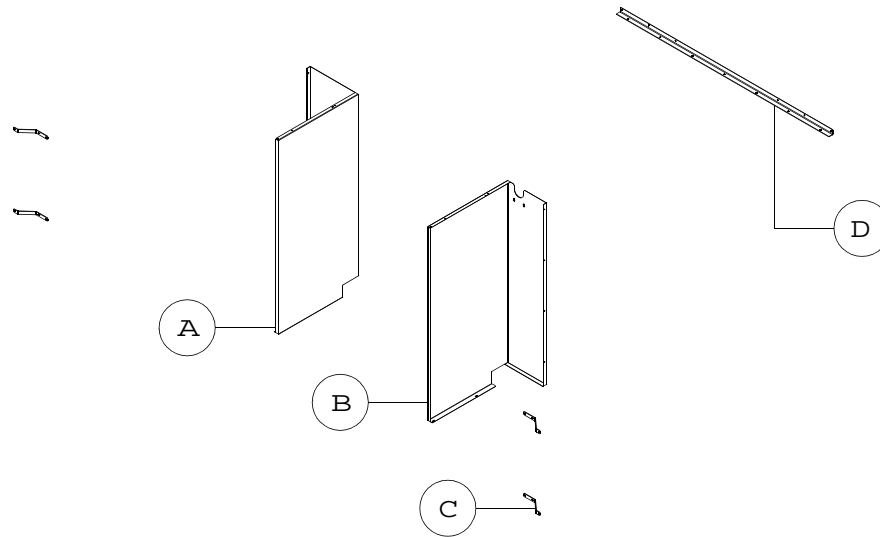
| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------|-----|------------------|
| M    | 54599915  | Panel, Front Top       | 1   | .....Continued   |
| N    | 54599923  | Panel, 2nd and 4th Top | 1   |                  |
| P    | 54599931  | Panel, Center Top      | 1   |                  |
| Q    | 54599949  | Panel, Rear Top        | 1   |                  |
| R    | 54690136  | Plate, Radiator Fill   | 1   |                  |
| S    | 35131051  | Latch, Door            | 1   |                  |
| T    | 36864403  | Door, Roof             | 1   |                  |
| U    | 36864304  | Cable                  | 1   |                  |
| V    | 36864288  | Hinge, Door            | 1   |                  |

## Fast Track Enclosure



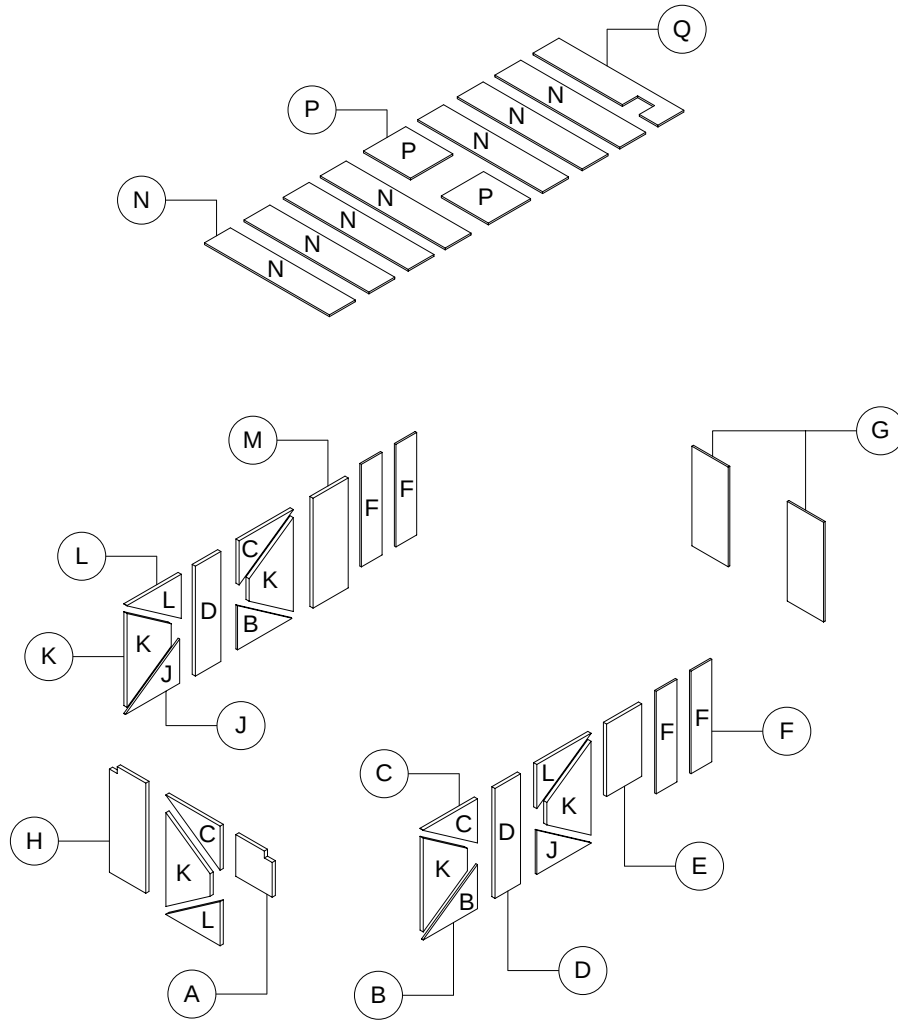
| ITEM | COMM. NO. | DESCRIPTION           | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------|-----|------------------|
| A    | 54640982  | Baffle, LH Outside    | 1   |                  |
| B    | 54641022  | Strip, Support        | 1   |                  |
| C    | 54640966  | Baffle, LH Inside     | 1   |                  |
| D    | 54640974  | Baffle, RH Inside     | 1   |                  |
| E    | 54641006  | Plate, Tie            | 1   |                  |
| F    | 54672761  | Panel, RH Rear        | 1   |                  |
| G    | 54718184  | Strip, Foam Retention | 6   |                  |
| H    | 54663299  | Panel, RH Rear Corner | 1   |                  |
| J    | 54672779  | Door, Rear            | 1   |                  |
|      | 36793602  | Latch, Door Slam      | 1   |                  |
| K    | 54692744  | Hinge                 | 1   |                  |
| L    | 54663281  | Panel, LH Rear Corner | 1   |                  |
| M    | 54576921  | Strip, Panel Support  | 1   |                  |
| N    | 54672753  | Panel, LH Rear Side   | 1   |                  |

## Wagon Wheel Enclosure



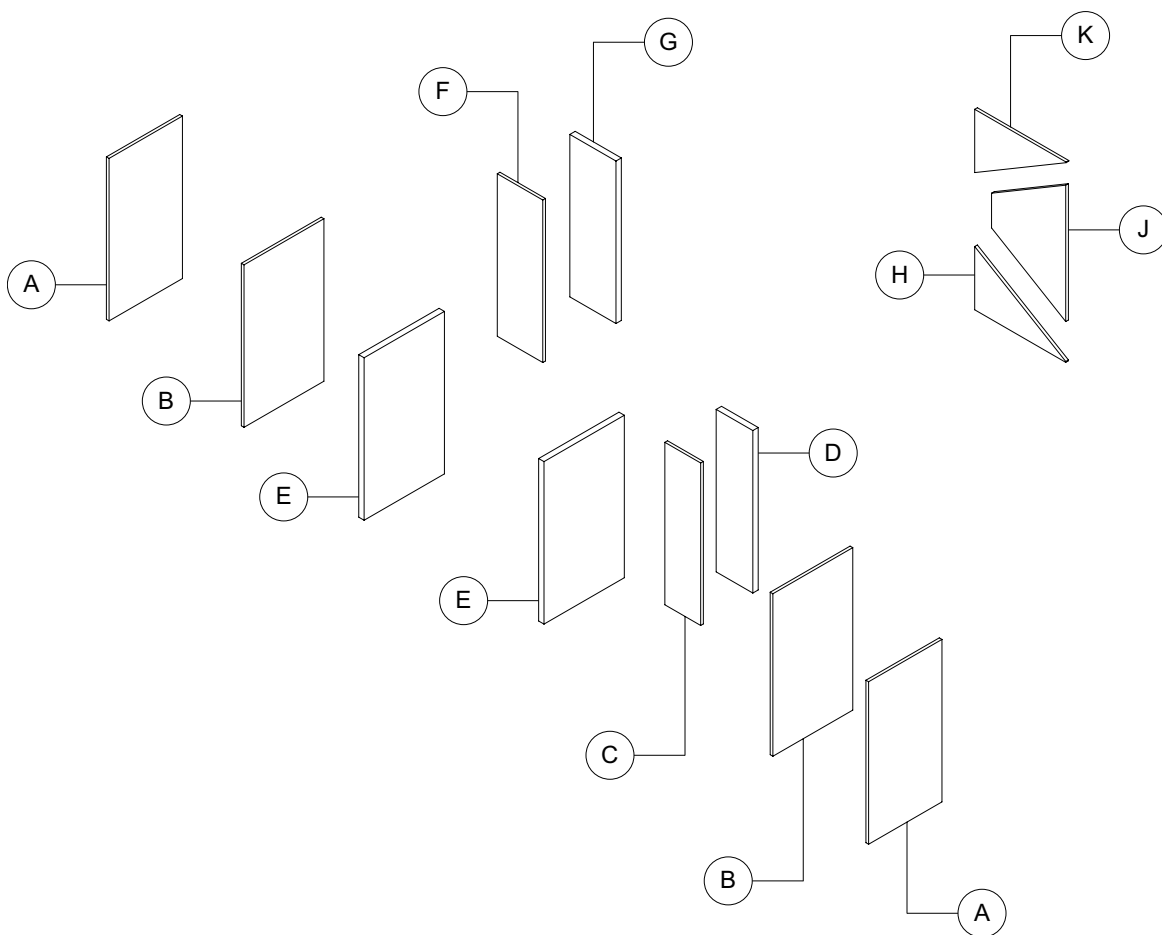
| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 54688239  | Baffle, RH           | 1   |                  |
| B    | 54688221  | Baffle, LH           | 1   |                  |
| C    | 54641022  | Support, Baffle      | 4   |                  |
| D    | 54576921  | Angle, Rear Mounting | 1   |                  |

## Common Foam



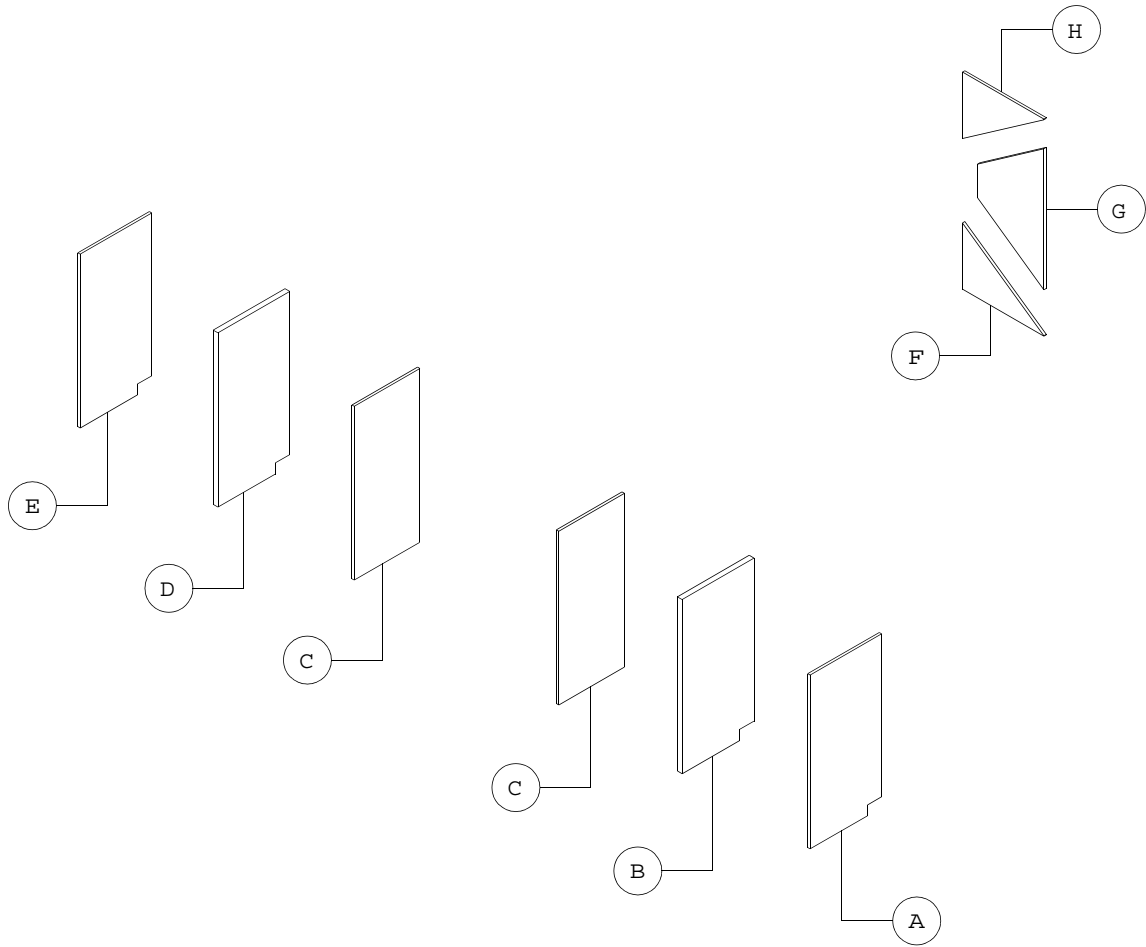
| ITEM | COMM. NO. | DESCRIPTION           | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------|-----|------------------|
| A    | 54721204  | Foam, LH Front Top    | 1   |                  |
| B    | 54719703  | Foam, Door            | 2   |                  |
| C    | 54719711  | Foam, Door            | 3   |                  |
| D    | 54719646  | Foam, Center Panel    | 2   |                  |
| E    | 54719695  | Foam, LH Side         | 1   |                  |
| F    | 54759519  | Foam, RH/LH Rear Side | 4   |                  |
| G    | 54759527  | Foam, Rear            | 2   |                  |
| H    | 54721675  | Foam, RH Front        | 1   |                  |
| J    | 54720065  | Foam, Door            | 2   |                  |
| K    | 54719661  | Foam, Center Door     | 5   |                  |
| L    | 54720057  | Foam, Door            | 3   |                  |
| M    | 54719653  | Foam, RH Rear Side    | 1   |                  |
| N    | 54699046  | Foam, Top             | 7   |                  |
| P    | 54699087  | Foam, Center Top      | 2   |                  |
| Q    | 54710041  | Foam, Rear Top        | 1   |                  |

## High Speed Running Gear Foam



| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 54675848  | Foam, Splitter Baffle      | 1   |                  |
| B    | 54675830  | Foam, Splitter Baffle      | 1   |                  |
| C    | 54675822  | Foam, LH Baffle            | 1   |                  |
| D    | 54675806  | Foam, LH Baffle            | 1   |                  |
| E    | 54675814  | Foam, LH                   | 1   |                  |
| F    | 54685334  | Foam, RH                   | 1   |                  |
| G    | 54685326  | Foam, RH                   | 1   |                  |
| H    | 54759550  | Foam, Bottom Door          | 1   |                  |
| J    | 54759543  | Foam, Center Door          | 1   |                  |
| K    | 54759535  | Foam, Top Door             | 1   |                  |
|      | 54737606  | Foam, LH Baffle (IQ Units) | 1   |                  |
|      | 54737598  | Foam, LH Baffle (IQ Units) | 1   |                  |

## Wagon Wheel Foam



| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 54691134  | Foam, LH Splitter Baffle   | 1   |                  |
| B    | 54691175  | Foam, LH Splitter Baffle   | 1   |                  |
| C    | 54691118  | Foam, Splitter Baffle      | 1   |                  |
| D    | 54691191  | Foam, RH Splitter Baffle   | 1   |                  |
| E    | 54691159  | Foam, RH Splitter Baffle   | 1   |                  |
| F    | 54670459  | Foam, Bottom Door          | 1   |                  |
| G    | 54760442  | Foam, Middle Door          | 1   |                  |
| H    | 54760434  | Foam, Top Door             | 1   |                  |
|      | 54737606  | Foam, LH Baffle (IQ units) | 1   |                  |
|      | 54737598  | Foam, LH Baffle (IQ units) | 1   |                  |

## Wiring Parts Lists

### ELECTRICAL COMPONENTS

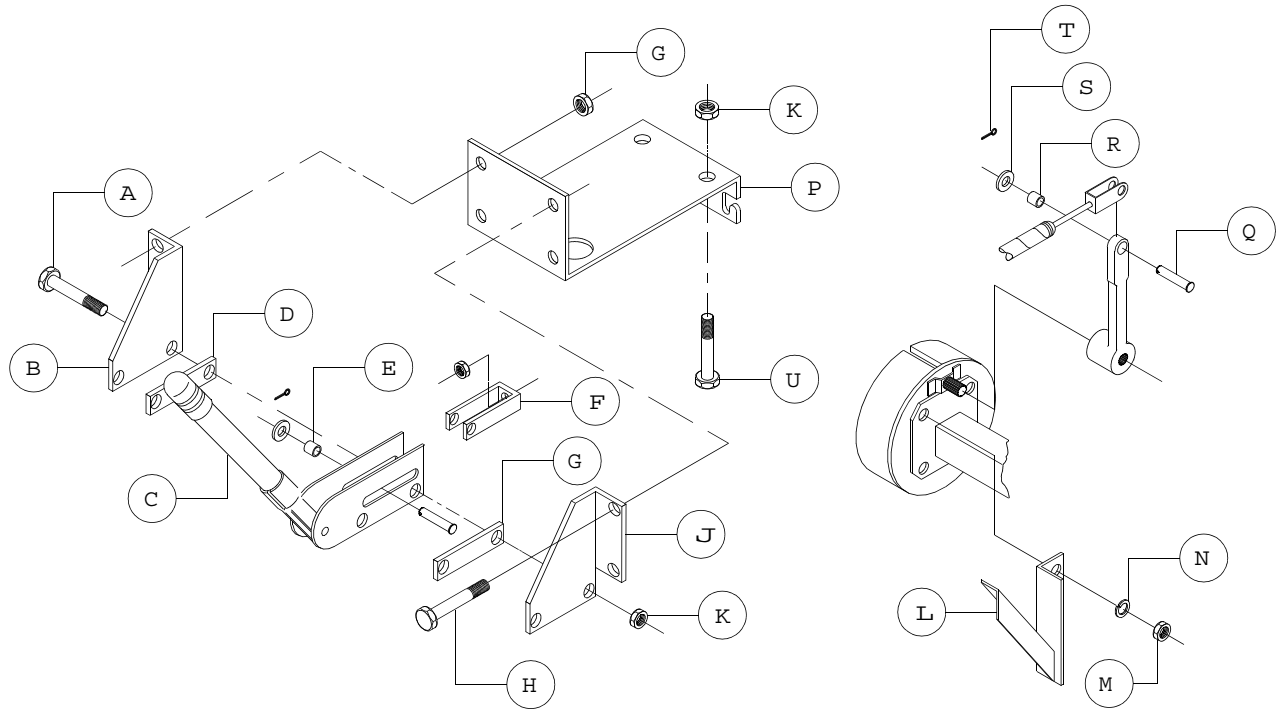
| PART NO. | QTY | DESCRIPTION                   | PART NO. | QTY | DESCRIPTION                       |
|----------|-----|-------------------------------|----------|-----|-----------------------------------|
| 54757224 | 1   | IQ WIRING HARNESS             | 35128982 | 1   | BATTERY JUMPER                    |
| 54474572 | 1   | COOLANT LEVEL SWITCH          | 35578194 | 1   | FRAME GROUND STRAP                |
| 36896975 | 1   | BATTERY DISCONNECT SWITCH     | 35293075 | 1   | ENGINE GROUND STRAP               |
| 36920825 | 1   | 0-100 PSI PRESSURE TRANSDUCER | 54672803 | 1   | FUEL LEVEL SENDER ( WAGON WHEEL ) |
| 36892362 | 1   | 24V SEALED RELAY              | 54672811 | 1   | FUEL LEVEL SENDER ( HIGH SPEED )  |
| 36785319 | 1   | MAG SPEED SENSOR              | 22173579 | 1   | WEDGE CONTROLLER                  |
| 36898922 | 2   | THERMISTOR TEMPERATURE PROBE  | 22614416 | 1   | W1 CHASSIS HARNESS                |
| 36840841 | 1   | START / RUN SOLENOID          | 36864677 | 2   | REGULATOR-HEATER & CONTROL HEATER |
| 36842318 | 1   | COMPRESSOR SOLENOID           | 36792083 | 2   | FUSE 20 AMP BLADE                 |
| 22071591 | 1   | 15 AMP BLADE FUSE             | 35376169 | 4   | DIODE                             |
| 36847838 | 2   | AIR FILTER SWITCH             | 22108690 | 1   | CONTROL PANEL HARNESS             |
| 36870608 | 1   | ENGINE OIL PRESSURE SENDER    | 22162549 | 1   | E-STOP SWITCH ASSEMBLY            |
| 36841138 | 2   | ENG. & COMP. TEMP SENDER      | 54752308 | 4   | DIODE                             |
| 54765649 | 1   | ADDRESS PLUG                  | 22639728 | 1   | CONTROL PANEL HARNESS             |
| 36850691 | 1   | START-UP COMPRESSOR           | 22635387 | 1   | E-STOP SWITCH ASSEMBLY            |
| 35577873 | 1   | AUXILARY START RELAY          |          |     |                                   |
| 54720701 | 1   | ENG. TEMP. SENDER ADAPTOR     |          |     |                                   |
| 54765367 | 1   | NEGATIVE BATTERY CABLE        |          |     |                                   |
| 54765375 | 1   | POSITIVE BATTERY CABLE        |          |     |                                   |
| 54765383 | 1   | POSITIVE JUMPER BATTERY CABLE |          |     |                                   |

| IQ OPTION |     |                           |
|-----------|-----|---------------------------|
| PART NO.  | QTY | DESCRIPTION               |
| 54757224  | 1   | IQ WIRING HARNESS         |
| 54775887  | 1   | IQ HEATER HARNESS         |
| 36841526  | 5   | IQ ORIFICE HEATERS        |
| 36898310  | 1   | ACTUATOR                  |
| 36898922  | 1   | THERMISTOR TEMP. PROBE    |
| 36892362  | 1   | 24V SEALED RELAY          |
| 36920643  | 1   | ICU                       |
| 36899599  | 1   | IQ FILTER SWITCH - 20 PSI |
| 36899615  | 1   | IQ FILTER SWITCH - 25 PSI |

# AC Heater Kit

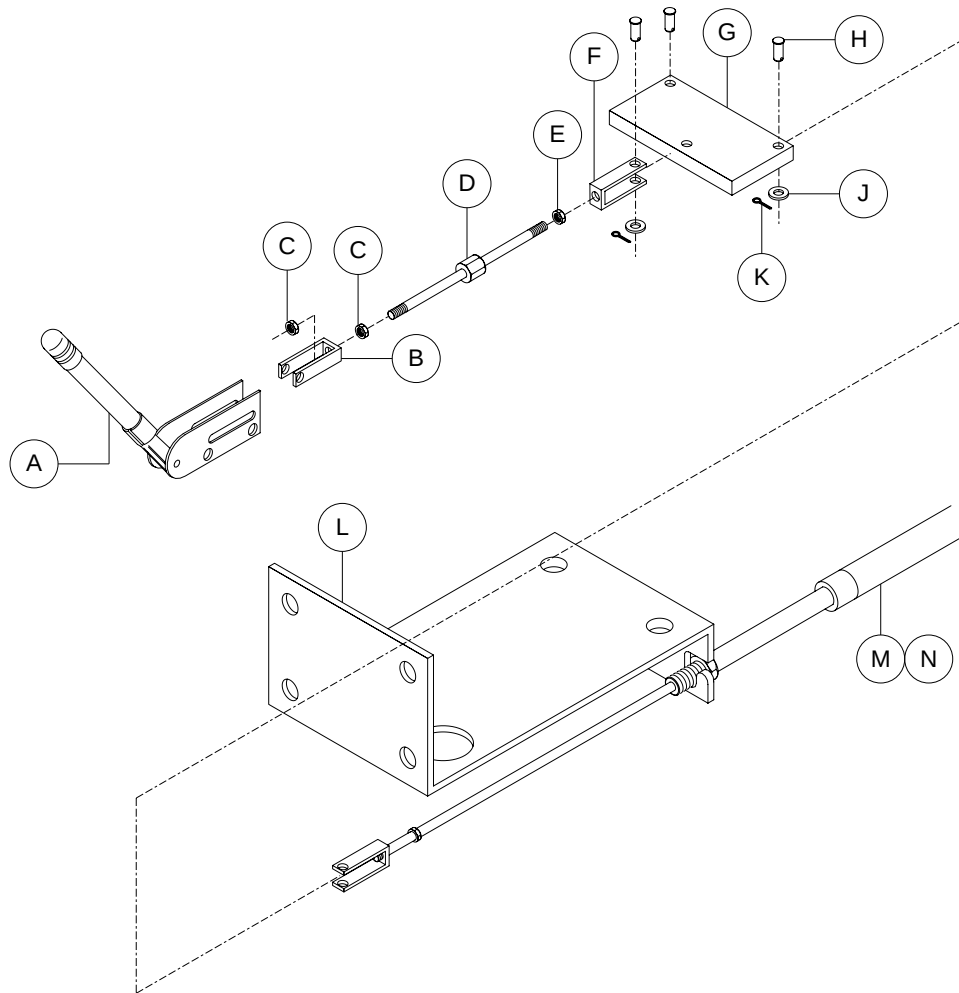
| ITEM | COMM. NO. | DESCRIPTION                                                  | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------------------------------------|-----|------------------|
|      | 36851533  | Bracket, Pressure Switch                                     | 1   |                  |
|      | 36880995  | Screw (Attach Bracket)                                       | 2   |                  |
|      | 36879195  | Nut (Attach Bracket)                                         | 2   |                  |
|      | 54464607  | AC Powered Cold Start Assy.                                  | 1   |                  |
|      | 54464664  | Harness, Pressure Switch                                     | 1   |                  |
|      | 54480298  | Well, Thermostat                                             | 1   |                  |
|      | 54464623  | Heater, Oil Pan                                              | 1   |                  |
|      | 36920346  | Pad, Heater 8D Battery                                       | 1   |                  |
|      | 36920338  | Pad, Heater 8D Battery                                       | 1   |                  |
|      | 35283464  | Elbow (In Threaded Port of Press. Switch)                    | 1   |                  |
|      | 35114545  | Tee (In Adapter at Engine Oil Port)                          | 1   |                  |
|      | 35283472  | Connector (In Tee Facing Lifting Bail)                       | 1   |                  |
|      | 22474878  | DC Heater Harness ( Connect to R3 on W1<br>Harness )         | 1   |                  |
|      | 22476063  | DC Heater Harness ( Connect to R1 on W1<br>Harness )         | 1   |                  |
|      | 36841526  | 24 Volt Heater                                               | 1   |                  |
|      | 35283464  | Elbow, 90 ( In Thread Port at Press. Sw. )                   | 1   |                  |
|      | 35114545  | Tee ( In Adapter at Eng. Oil Port )                          | 1   |                  |
|      | 35282920  | Hose Assembly ( Between Elbow & Tee )                        | 1   |                  |
|      | 35326560  | Adapter ( In End of Engine Blow-by Hose-<br>Remove Cummins ) | 1   |                  |

## Wagon Wheel Parking Brake Assembly



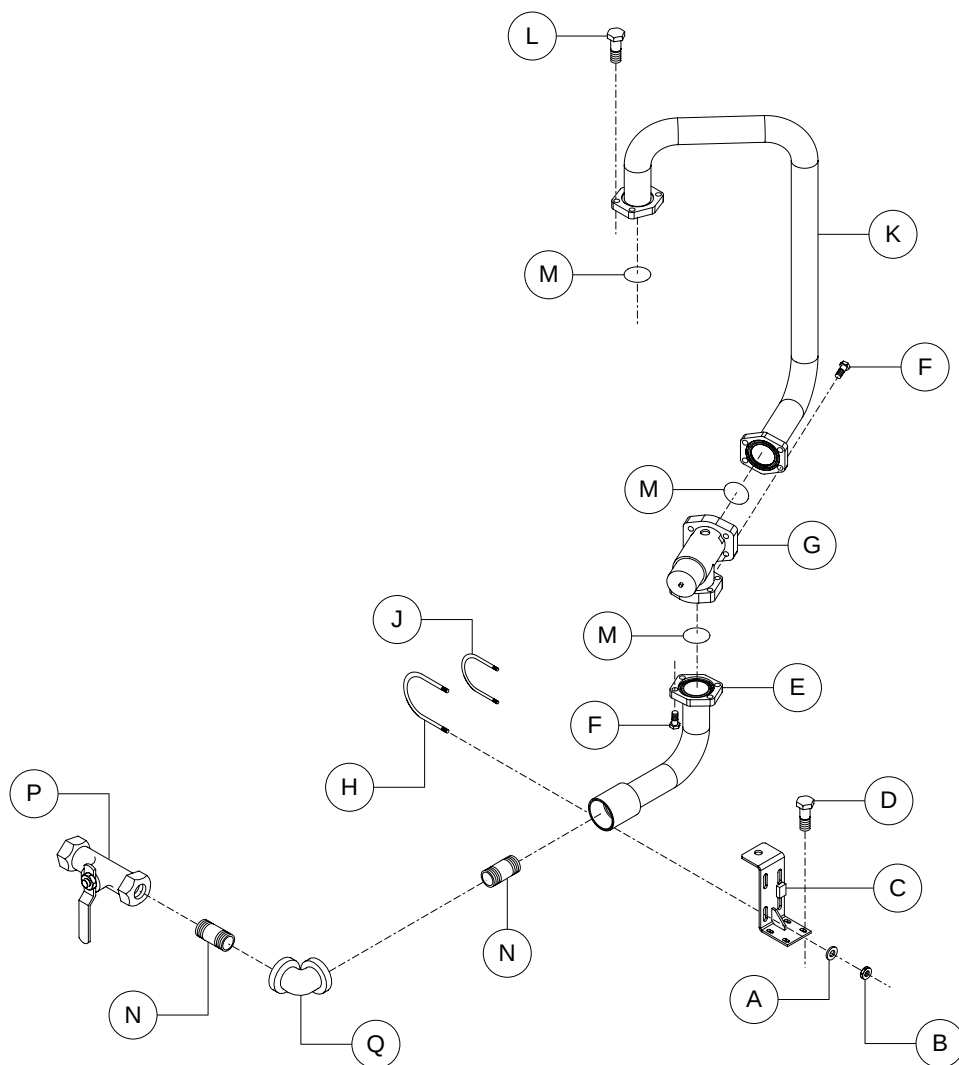
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 95941100  | Screw                      | 2   |                  |
| B    | 36847432  | Bracket, RH Lever          | 1   |                  |
| C    | 36782878  | Lever, Brake               | 1   |                  |
| D    | 35603224  | Plate, Spacer              | 2   |                  |
| E    |           | Furnished with Lever       | 2   |                  |
| F    | 35603208  | Clevis, Brake Lever        | 1   |                  |
| G    | 35252618  | Nut                        | 4   |                  |
| H    | 36877793  | Screw                      | 4   |                  |
| J    | 36847440  | Bracket, LH Lever          | 1   |                  |
| K    | 35145077  | Nut                        | 4   |                  |
| L    | 36786887  | Bracket, LH Cable Latch    | 1   |                  |
|      | 36786895  | Bracket, RH Cable Latch    | 1   |                  |
| M    | 95916573  | Nut                        | 8   |                  |
| N    | 95934741  | Washer                     | 8   |                  |
| P    | 36783306  | Bracket, Front Cable Latch | 1   |                  |
| Q    | 36783785  | Pin Clevis                 | 2   |                  |
| R    | 36786697  | Bushing                    | 2   |                  |
| S    | 95935037  | Washer                     | 2   |                  |
| T    | 95928867  | Pin, Cotter                | 2   |                  |
| U    | 36880995  | Screw                      | 2   |                  |

## Wagon Wheel Parking Brake Assembly



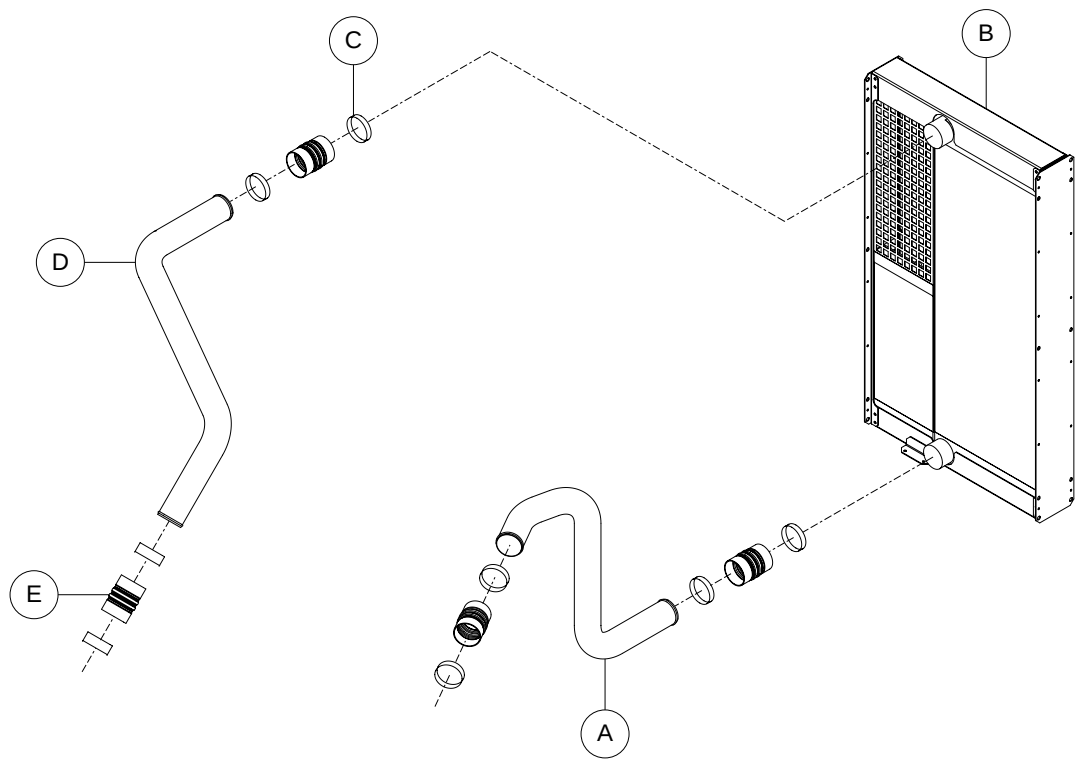
| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| A    | 36782878  | Lever, Brake               | 1   |                  |
| B    | 35603208  | Clevis, Brake Lever        | 1   |                  |
| C    | 35118728  | Nut                        | 2   |                  |
| D    | 35603182  | Rod, Link                  | 1   |                  |
| E    | 95935086  | Nut                        | 2   |                  |
| F    | 35603216  | Equalizer, Clevis          | 1   |                  |
| G    | 35602846  | Equalizer, Cable           | 1   |                  |
| H    | 35357151  | Pin, Clevis                | 3   |                  |
| J    | 95934998  | Washer                     | 3   |                  |
| K    | 95928867  | Pin, Cotter                | 3   |                  |
| L    | 36783306  | Bracket, Front Cable Latch | 1   |                  |
| M    | 22064141  | Cable, RH Brake            | 1   |                  |
| N    | 22064000  | Cable, LH Brake            | 1   |                  |

## Separator Air Piping



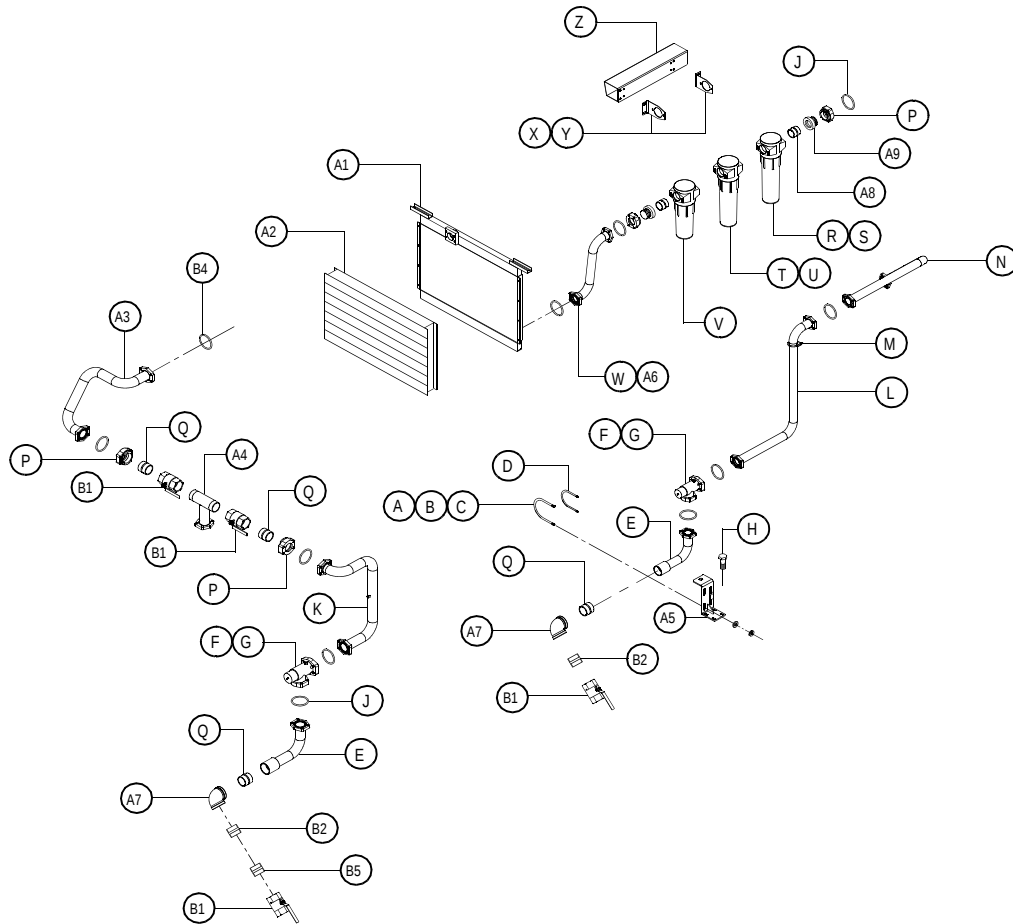
| ITEM | COMM. NO. | DESCRIPTION             | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------|-----|------------------|
| A    | 95935003  | Washer                  | 4   |                  |
| B    | 95922902  | Nut                     | 4   |                  |
| C    | 54668314  | Support, Pipe           | 1   |                  |
| D    | 35130293  | Screw                   | 4   |                  |
| E    | 36898120  | Pipe                    | 1   |                  |
| F    | 95927273  | Screw                   | 8   |                  |
| G    | 54642152  | Valve, Minimum Pressure | 1   |                  |
| H    | 36799419  | Clamp                   | 1   |                  |
| J    | 35586288  | Clamp                   | 1   |                  |
| K    | 54642137  | Pipe                    | 1   |                  |
| L    | 95929089  | Screw                   | 4   |                  |
| M    | 95358040  | O-Ring                  | 1   |                  |
| N    | 95940946  | Nipple                  | 2   |                  |
| P    | 36755718  | Valve, Ball             | 1   |                  |
| Q    | 95916581  | Elbow                   | 1   |                  |

Charge Air Piping



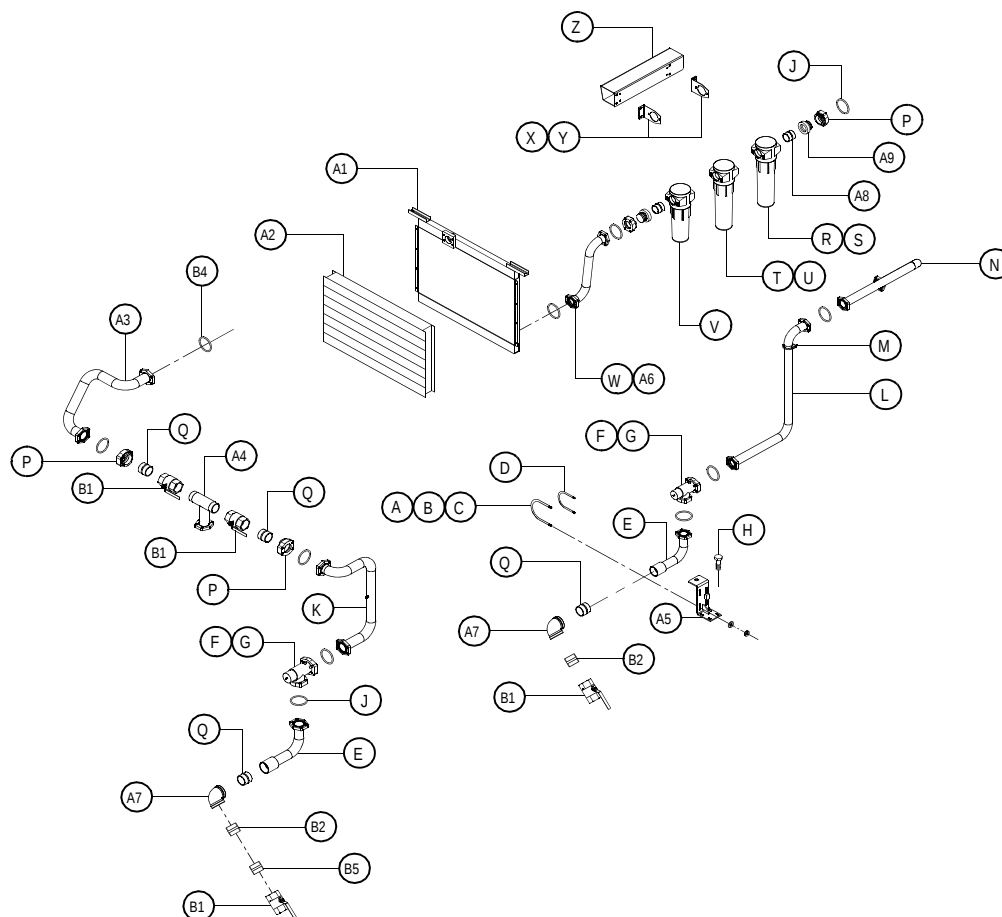
| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| A    | 54632690  | Tube, Bottom A/C   | 1   |                  |
| B    | 54501846  | Cooler, Air Charge | 1   |                  |
| C    | 54444427  | Clamp              | 8   |                  |
| D    | 54632682  | Tube, Upper A/C    | 1   |                  |
| E    | 54422522  | Hose, Ribbed       | 4   |                  |

## IQ Air Piping ( Option )



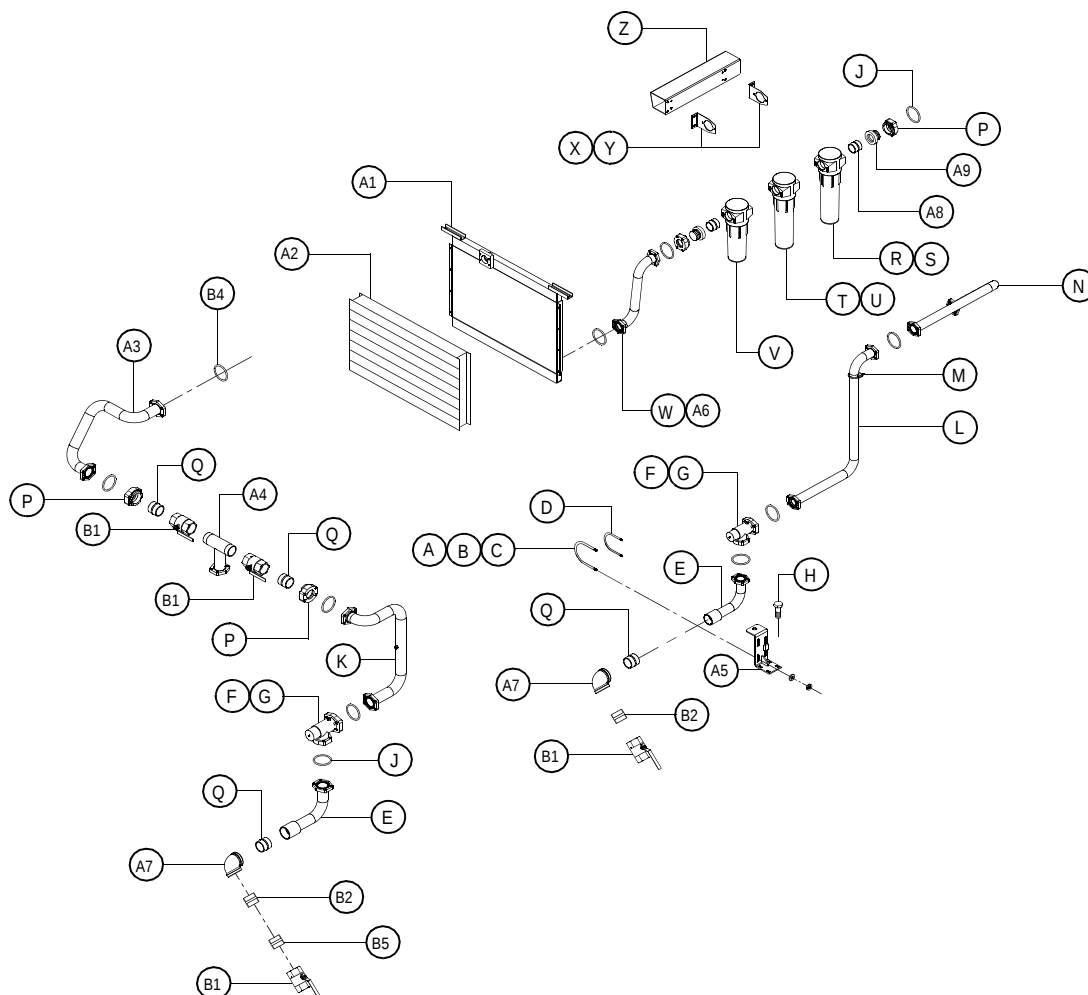
| ITEM | COMM. NO. | DESCRIPTION                          | QTY | DIMENSIONS/NOTES      |
|------|-----------|--------------------------------------|-----|-----------------------|
| A    | 36799419  | U-Bolt                               | 2   |                       |
| B    | 95935003  | Washer                               | 8   |                       |
| C    | 95922902  | Nut                                  | 8   |                       |
| D    | 35586288  | Clamp                                | 2   |                       |
| E    | 36898120  | Pipe, Service ( No PED with IQ )     | 2   |                       |
|      | 22205090  | Pipe, Service ( PED with IQ )        | 2   |                       |
| F    | 54642152  | Valve, Minimum Pressure ( No PED )   | 2   |                       |
|      | 22207534  | Valve, Minimum Pressure ( With PED ) | 2   |                       |
| G    | 95927273  | Screw                                | 36  |                       |
| H    | 35130293  | Screw                                | 8   |                       |
| J    | 95357976  | O-Ring                               | 3   |                       |
| K    | 22104558  | Pipe, Bypass ( No PED with IQ )      | 1   |                       |
|      | 22205181  | Pipe, Bypass ( PED with IQ )         | 1   |                       |
| L    | 54735055  | Pipe,Oulet ( No PED with IQ )        | 1   |                       |
|      | 22205207  | Pipe,Oulet ( PED with IQ )           | 1   |                       |
| M    | 35113646  | Clamp                                | 1   |                       |
| N    | 54734983  | Pipe, Filter ( No PED with IQ )      | 1   |                       |
|      | 22205199  | Pipe, Filter ( PED with IQ )         | 1   | <b>Continued.....</b> |

## IQ Air Piping ( Option )



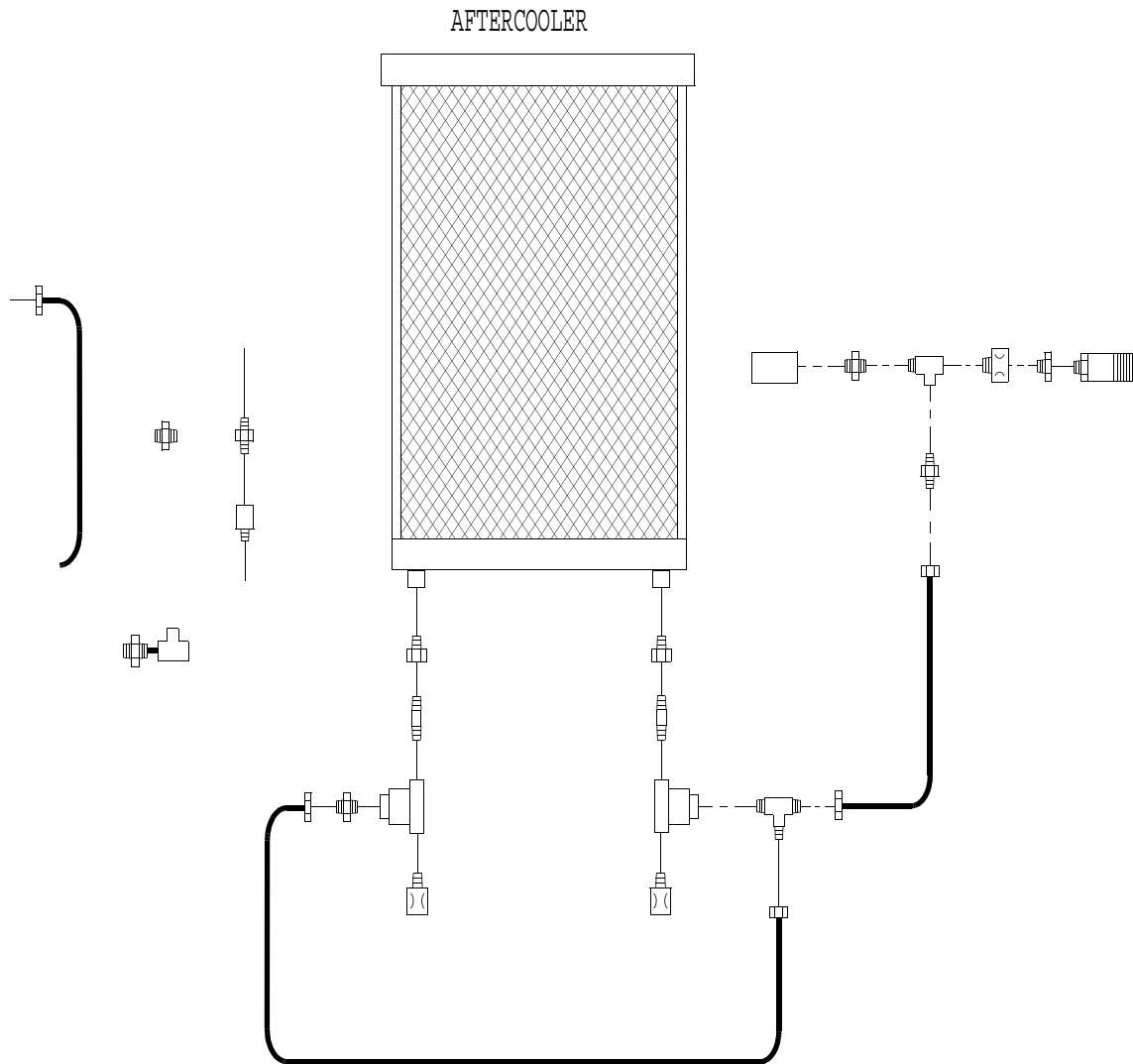
| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES      |
|------|-----------|---------------------------------|-----|-----------------------|
| P    | 36893220  | Adapter, Flange                 | 3   | <b>.....Continued</b> |
| Q    | 95940946  | Nipple                          | 6   |                       |
| R    | 54738984  | Filter, Secondary               | 1   |                       |
| S    | 54739065  | Element, Filter                 | 1   |                       |
| T    | 54738976  | Filter, Primary                 | 1   |                       |
| U    | 54739057  | Element, Filter                 | 1   |                       |
| V    | 54738968  | Separator, Water                | 1   |                       |
| W    | 54734090  | Pipe, Filter ( No PED with IQ ) | 1   |                       |
|      | 22205215  | Pipe, Filter ( PED with IQ )    | 1   |                       |
| X    | 54739016  | Kit, Bracket / Wedge            | 1   |                       |
| Y    | 54739024  | Kit, Wedge                      | 1   |                       |
| Z    | 54732250  | Bracket, Filters                | 1   |                       |
| A1   | 54699129  | Cooler Assembly                 | 1   |                       |
| A2   | 54700943  | Louver Assembly                 | 1   |                       |
| A3   | 22104541  | Tube, Inlet ( No PED with IQ )  | 1   |                       |
|      | 22205173  | Tube, Inlet ( PED with IQ )     | 1   |                       |
| A4   | 22097489  | Pipe, Tee ( No PED with IQ )    | 1   |                       |
|      | 22205116  | Pipe, Tee ( PED with IQ )       | 1   |                       |
|      |           |                                 |     | <b>Continued.....</b> |

## IQ Air Piping ( Option )



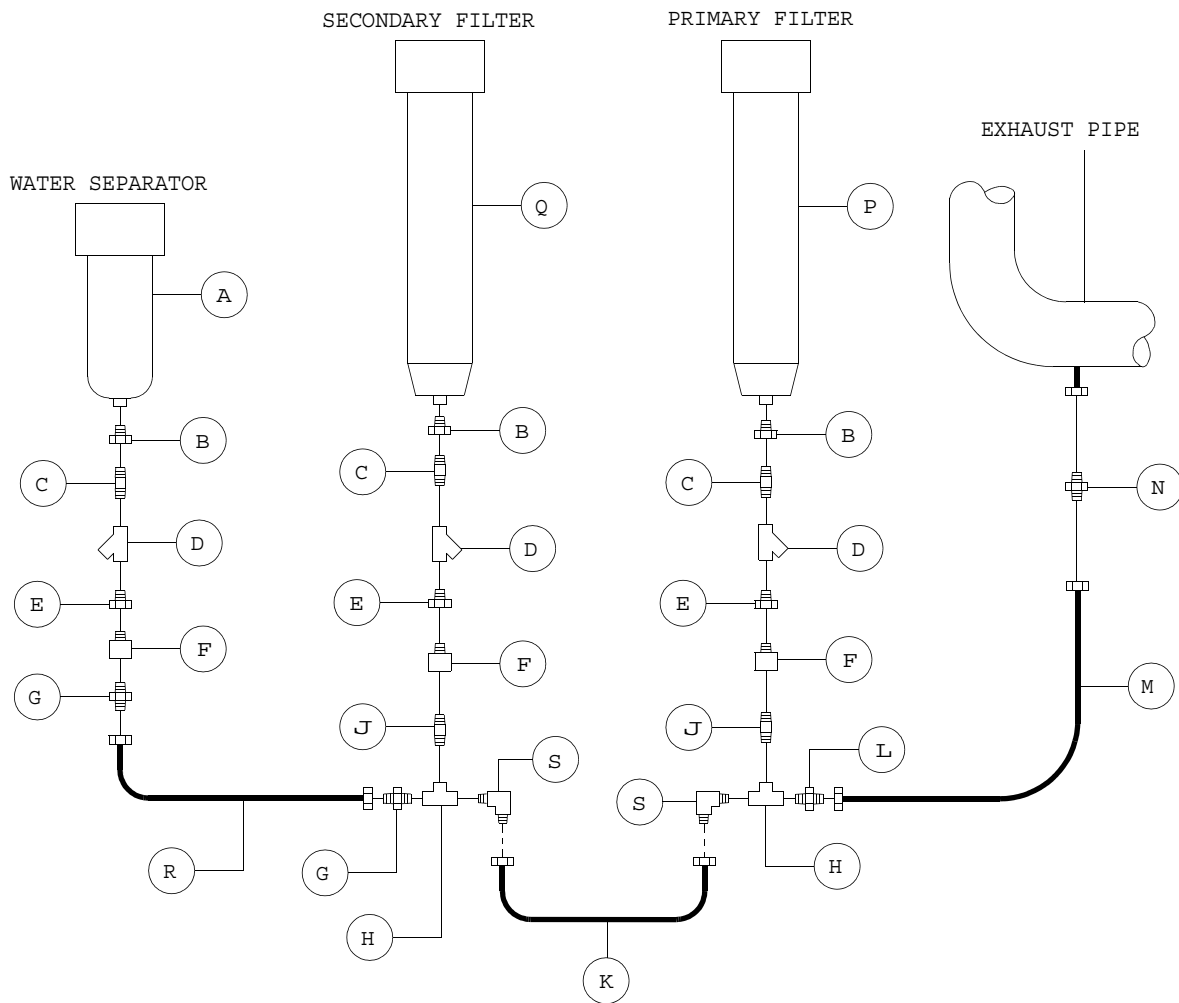
| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES      |
|------|-----------|---------------------------------|-----|-----------------------|
| A5   | 54668314  | Support, Pipe                   | 2   | <b>.....Continued</b> |
| A6   | 95929089  | Screw                           | 32  |                       |
| A7   | 95941027  | Elbow                           | 2   |                       |
| A8   | 95953790  | Nipple                          | 2   |                       |
| A9   | 95951398  | Bushing                         | 2   |                       |
| B1   | 36755718  | Valve, Ball ( MSA )             | 3   |                       |
|      | 22225213  | Valve, Ball ( PED, with IQ )    | 1   |                       |
| B2   | 54393210  | Nipple                          | 1   |                       |
| B3   | 36922995  | Valve, Ball ( No PED, with IQ ) | 1   |                       |
| B4   | 95358040  | O-Ring                          | 8   |                       |
| B5   | 22110571  | ESA Service Valve Adapter       | 1   |                       |

## IQ Cooler Piping ( Option )



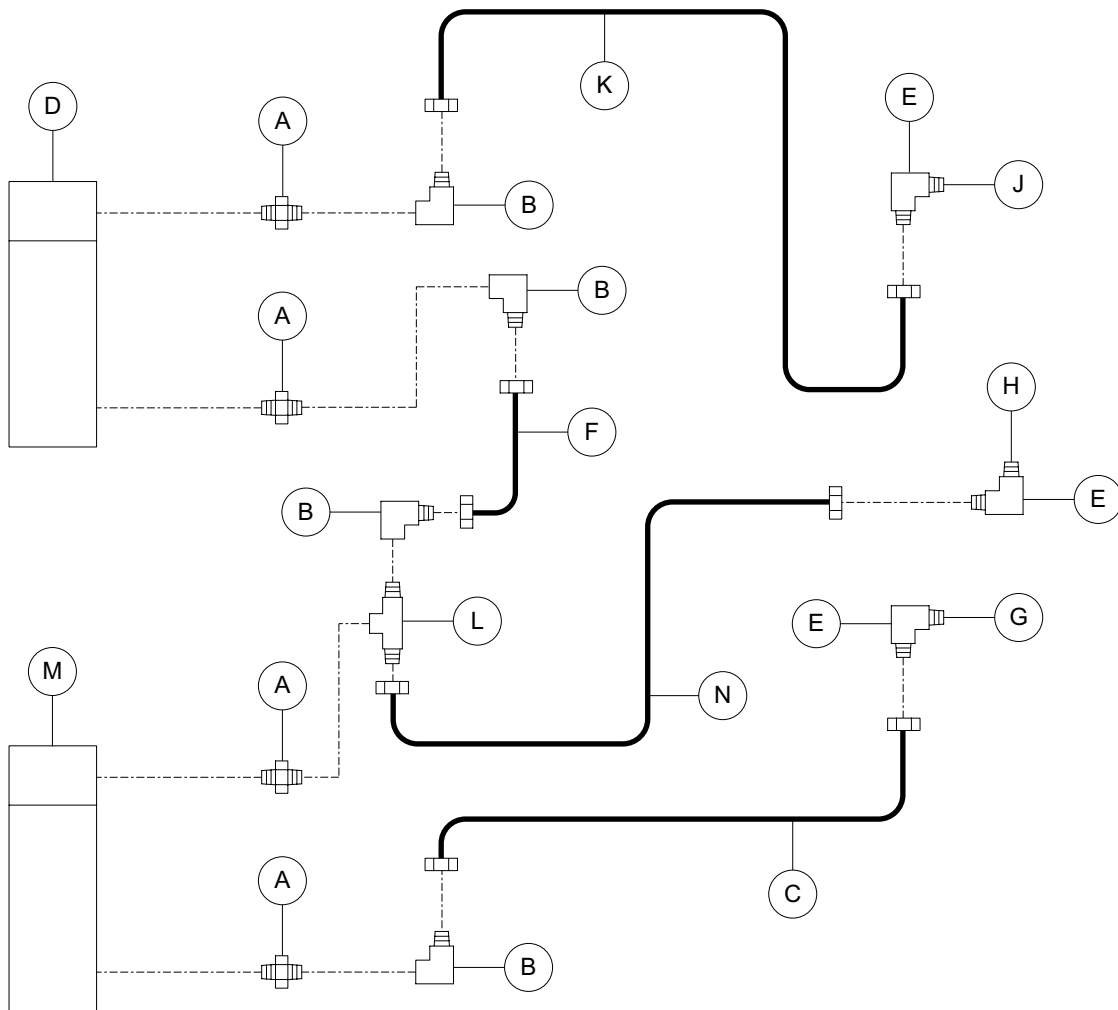
| ITEM | COMM. NO. | DESCRIPTION                                              | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------------------------------|-----|------------------|
| A    |           | To Side Outlet of Tee LH Side of Auto-<br>Blowdown Valve |     |                  |
| B    | 35284082  | Connector                                                | 1   |                  |
| C    | 35310994  | Hose Assembly                                            | 1   |                  |
| D    | 35282995  | Hose Assembly                                            | 1   |                  |
| E    | 35322379  | Valve, Blowdown                                          | 1   |                  |
|      | 35379064  | Diaphragm Kit                                            | 1   |                  |
| F    | 35367846  | Reducer                                                  | 1   |                  |
| G    | 35284082  | Connector                                                | 1   |                  |
| H    | 35283050  | Tee                                                      | 1   |                  |
| J    | 35248319  | Orifice, .094                                            | 1   |                  |
|      | 36898922  | Probe, Temperature                                       | 1   |                  |

## IQ Filter Piping



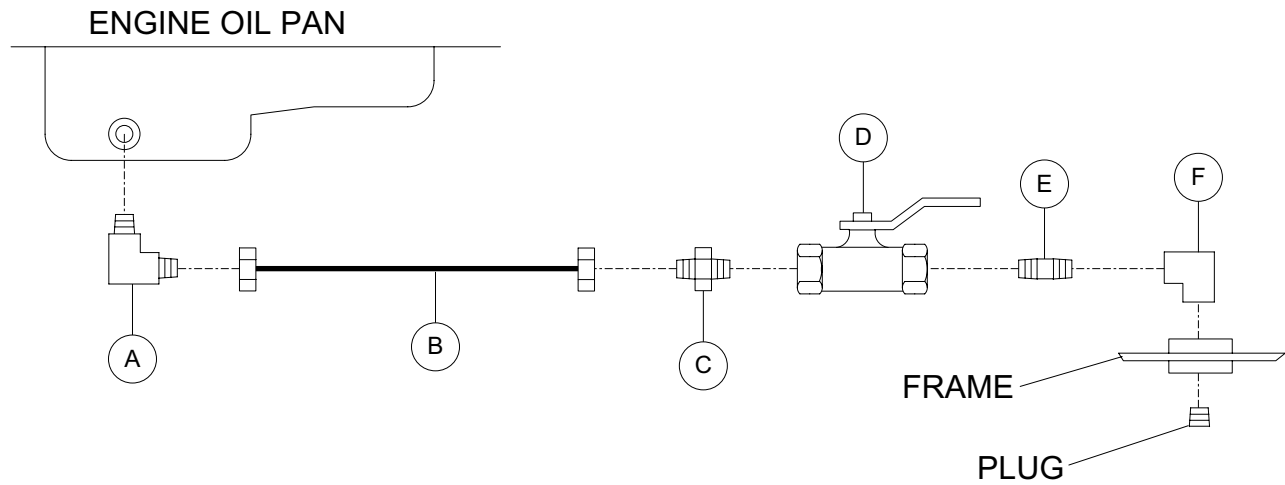
| ITEM | COMM. NO. | DESCRIPTION       | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------|-----|------------------|
| A    | 54738968  | Separator, Water  | 1   |                  |
| B    | 95245353  | Adapter           | 1   |                  |
| C    | 95772562  | Nipple            | 1   |                  |
| D    | 36844579  | Y-Strainer        | 1   |                  |
| E    | 95940748  | Adapter           | 1   |                  |
| F    | 37081528  | Orifice .063      | 1   |                  |
| G    | 35283472  | Connector         | 1   |                  |
| H    | 36882223  | Tee               | 1   |                  |
| J    | 95452025  | Nipple            | 1   |                  |
| K    | 35310960  | Hose Assembly     | 1   |                  |
| L    | 35284082  | Connector         | 1   |                  |
| M    | 35284538  | Hose Assembly     | 1   |                  |
| N    | 35321983  | Connector         | 1   |                  |
| P    | 54738976  | Filter, Primary   | 1   |                  |
| Q    | 54738984  | Filter, Secondary | 1   |                  |
| R    | 35283241  | Hose Assembly     | 1   |                  |
| S    | 35283464  | Elbow             | 1   |                  |

## IQ Indicator Piping



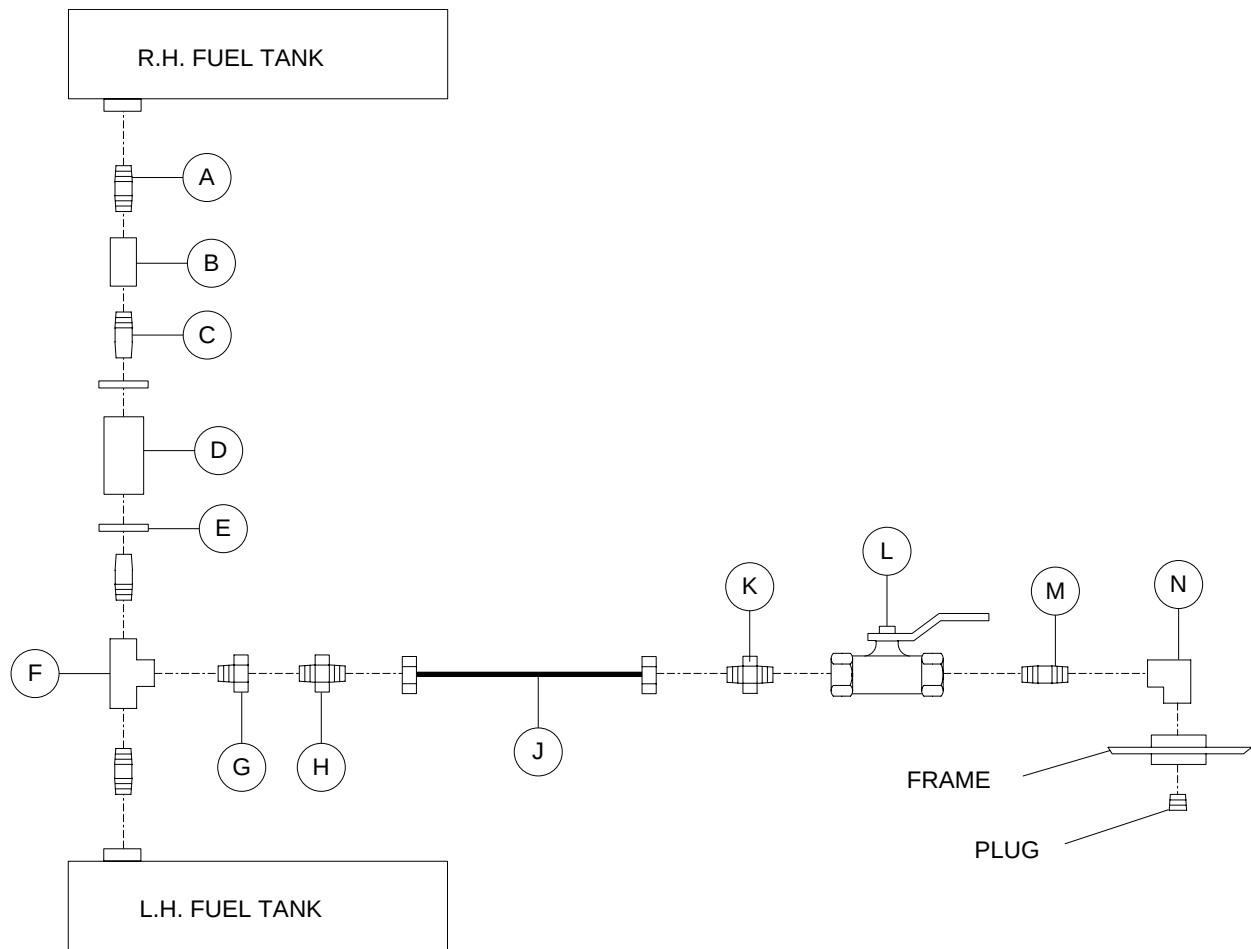
| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 36898401  | Connector                | 1   |                  |
| B    | 35290352  | Elbow                    | 1   |                  |
| C    | 35310226  | Hose Assembly            | 1   |                  |
| D    | 36899599  | Indicator ( 20 psi )     | 1   |                  |
| E    | 35283464  | Elbow                    | 1   |                  |
| F    | 35310960  | Hose Assembly            | 1   |                  |
| G    | -----     | To Water Separator Tube  |     |                  |
| H    | -----     | To Filter Crossover Tube |     |                  |
| J    | -----     | To Filter Outlet Tube    |     |                  |
| K    | 35323757  | Hose Assembly            | 1   |                  |
| L    | 35323591  | Tee                      | 1   |                  |
| M    | 36899615  | Indicator ( 25 psi )     | 1   |                  |
| N    | 36920650  | Hose Assembly            | 1   |                  |

## Engine Oil Drain Piping



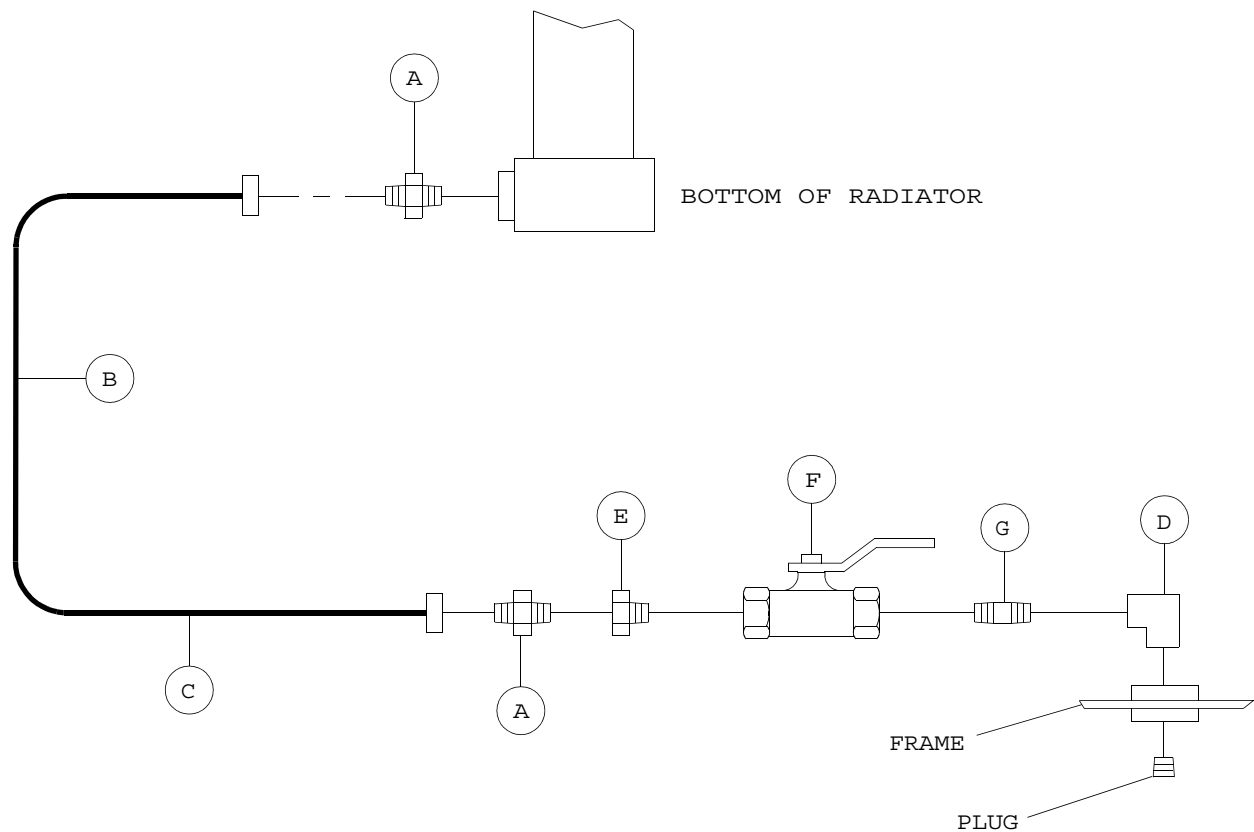
| ITEM | COMM. NO. | DESCRIPTION   | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------|-----|------------------|
| A    | 22063937  | Elbow         | 1   |                  |
| B    | 35323880  | Hose Assembly | 1   |                  |
| C    | 95219747  | Connector     | 1   |                  |
| D    | 35576115  | Valve, Ball   | 1   |                  |
| E    | 95928040  | Nipple        | 1   |                  |
| F    | 95928172  | Elbow         | 1   |                  |

## Fuel Tank Drain Piping



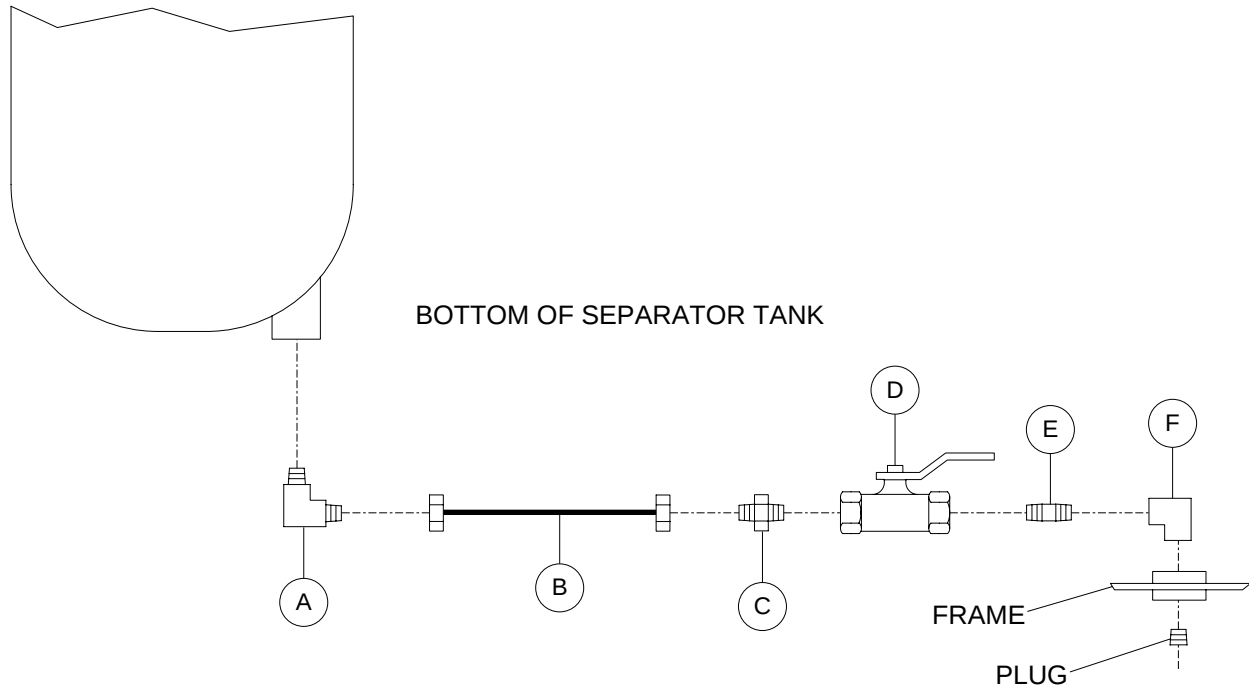
| ITEM | COMM. NO. | DESCRIPTION   | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------|-----|------------------|
| A    | 95953535  | Nipple        | 2   |                  |
| B    | 95937454  | Connector     | 1   |                  |
| C    | 54762190  | Fitting, Hose | 2   |                  |
| D    | 54762182  | Hose ( 19" )  | 1   |                  |
| E    | 35221662  | Clamp         | 2   |                  |
| F    | 95954285  | Tee           | 1   |                  |
| G    | 95953873  | Reducer       | 1   |                  |
| H    | 95219747  | Connector     | 1   |                  |
| J    | 36898328  | Hose Assembly | 1   |                  |
| K    | 95219747  | Connector     | 1   |                  |
| L    | 35576115  | Valve, Ball   | 1   |                  |
| M    | 95928040  | Nipple        | 1   |                  |
| N    | 95928172  | Elbow         | 1   |                  |

Radiator Drain Piping



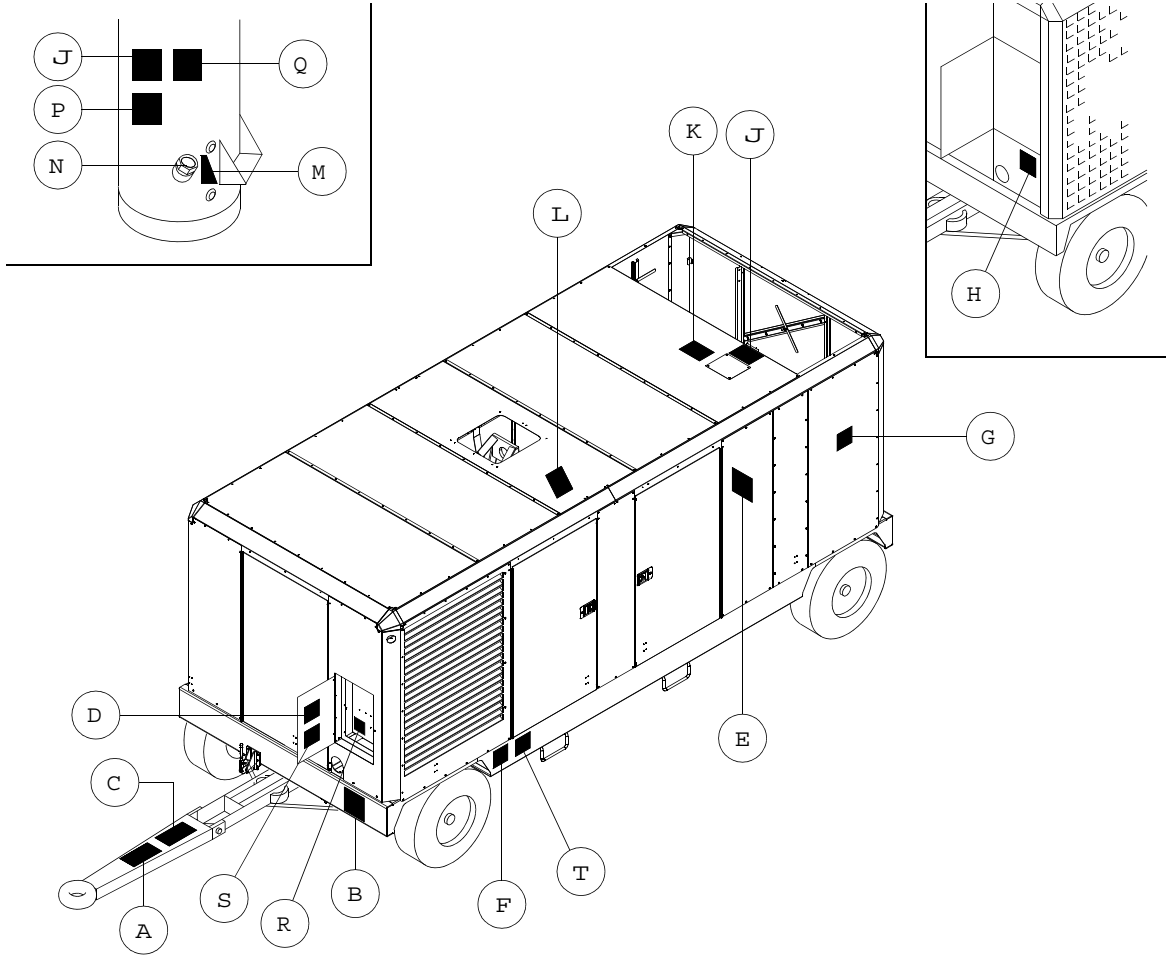
| ITEM | COMM. NO. | DESCRIPTION   | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------|-----|------------------|
| A    | 35326560  | Connector     | 1   |                  |
| B    | 95220844  | Clamp         | 2   |                  |
| C    | 35326578  | Hose ( 110" ) | 1   |                  |
| D    | 95928172  | Elbow         | 1   |                  |
| E    | 95953949  | Reducer       | 1   |                  |
| F    | 35576115  | Valve, Ball   | 1   |                  |
| G    | 95928040  | Nipple        | 1   |                  |

## Separator Tank Drain Piping



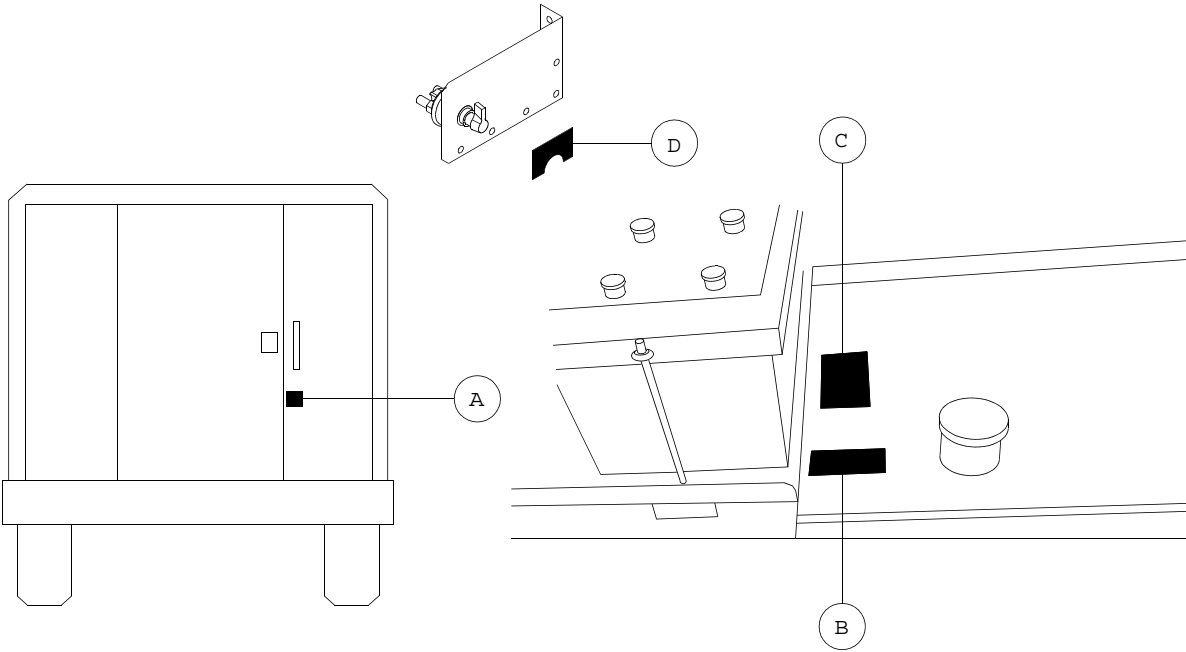
| ITEM | COMM. NO. | DESCRIPTION   | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------|-----|------------------|
| A    | 35294750  | Elbow         | 1   |                  |
| B    | 36878254  | Hose Assembly | 1   |                  |
| C    | 95219747  | Connector     | 1   |                  |
| D    | 35576115  | Valve, Ball   | 1   |                  |
| E    | 95928040  | Nipple        | 1   |                  |
| F    | 95928172  | Elbow         | 1   |                  |

## Decal Location



| ITEM | COMM. NO. | DESCRIPTION                                  | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------------------|-----|------------------|
| A    | 54568803  | Towing Decal (High Speed Running Gear)       | 1   |                  |
| B    | 54629902  | 3-Part Warning Decal                         | 1   |                  |
| C    | 22055701  | Towing Decal (Wagon Wheel)                   | 1   |                  |
| D    | 54568787  | Improper Operation Decal                     | 1   |                  |
| E    | 54568779  | Rotating Fan Decal                           | 4   |                  |
| F    | 54749205  | No Weld Decal                                | 4   |                  |
| G    | 54604939  | Fall Off Unit Decal                          | 4   |                  |
| H    | 36514602  | Noise Emission Decal                         | 1   |                  |
| J    | 54568761  | High Pressure Fluid Decal                    | 2   |                  |
| K    | 54604962  | Radiator Fill Decal                          | 1   |                  |
| L    | 54699400  | Lift Point Decal                             | 2   |                  |
| M    | 22383319  | Oil Level Decal                              | 1   |                  |
| N    | 54604970  | Oil Fill Decal                               | 1   |                  |
| P    | 54568795  | High Pressure Air Decal                      | 1   |                  |
| Q    | 22054365  | IQ Operation Decal                           | 1   |                  |
| R    | 22205603  | Operating Instructions Decal ( Instr. Pnl. ) | 1   |                  |
| S    | 22056378  | Operating Instructions Decal                 | 1   |                  |
| T    | 22164305  | Containment Decal                            | 4   |                  |

Decal Location



| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 54604988  | Door Under Pressure Decal    | 1   |                  |
| B    | 54625207  | Diesel Fuel Decal            | 2   |                  |
| C    | 54568753  | Battery Gas Decal            | 1   |                  |
|      | 54629977  | Central Drain Decal          | 1   |                  |
|      | 22189583  | Cummins Engine Filter Decals | 1   |                  |
|      | 22846364  | Wiring Diagram Laminates     | 1   |                  |



# Section 4 - Electrical Schematics

# **Section B - Electrical Schematics**

Wiring Parts Lists  
Wiring Parts Lists

| ITEM            | COMM. NO. | DESCRIPTION                         | QTY | DIMENSIONS/NOTES      |
|-----------------|-----------|-------------------------------------|-----|-----------------------|
| B2              | 36850691  | Startup Compressor                  |     |                       |
| D1-D4           | 35376169  | Diode                               |     |                       |
| F1,F3           | 36792083  | 20 Amp Fuse                         |     |                       |
| F2              | 89303184  | 15 Amp Fuse                         |     |                       |
| G2              | 36870665  | Mag Speed Sensor                    |     |                       |
| K1              | 35577873  | Auxiliary Start Relay               |     |                       |
| K2              | 36892362  | Relay, 24VDC SPDT                   |     |                       |
| K3              | 36892362  | Relay, 24VDC SPDT                   |     |                       |
| L1,L2           | 36842300  | Start / Run Solenoid Valve          |     |                       |
| M1              | 36840767  | Gage, 200 psi Pressure              |     | Before S/N 375132     |
|                 | 36841468  | Gage, 600 psi Pressure              |     | After S/N 375131      |
| M2              | 22277057  | Gage, 150 psi Pressure              |     | Before S/N 375132     |
|                 | 22692628  | Gage, 150 psi Pressure              |     | After S/N 375131      |
| M3              | 22050991  | Gage, Fuel Level                    |     | Before S/N 375132     |
|                 | 22692602  | Gage, Fuel Level                    |     | After S/N 375131      |
| M4              | 22327266  | Gage, Temperature ( Eng. Coolant )  |     | Before S/N 375132     |
|                 | 22692610  | Gage, Temperature ( Eng. Coolant )  |     | After S/N 375131      |
| M5              | 54766704  | Hourmeter                           |     |                       |
| M6              | 22055883  | Tachometer                          |     |                       |
| M7              | 22399349  | Voltmeter                           |     | Before S/N 375132     |
|                 | 22692594  | Voltmeter                           |     | After S/N 375131      |
| M8              | 22327266  | Gage, Temperature ( Air Discharge ) |     | Before S/N 375132     |
|                 | 22692610  | Gage, Temperature ( Air Discharge ) |     | After S/N 375131      |
| PT1             | 54765946  | 0-500 psi Pressure Transducer       |     |                       |
| PT2             | 36920825  | 0-100 psi Pressure Transducer       |     |                       |
| R1              | 36864677  | Regulator Heater                    |     |                       |
| R3              | 36841526  | Control Orifice Heater              |     |                       |
| R4              | -----     | Terminator, CAN                     |     |                       |
| R6              | -----     | Resistor, 150 ohm                   |     |                       |
| RP1             | 36870608  | Engine Oil Press Sender             |     |                       |
| RT1,RT2,<br>RT5 | 36898922  | Thermistor Temperature Sensor       |     |                       |
| RT3, RT4        | 36841138  | Temperature Sender                  |     | <b>Continued.....</b> |

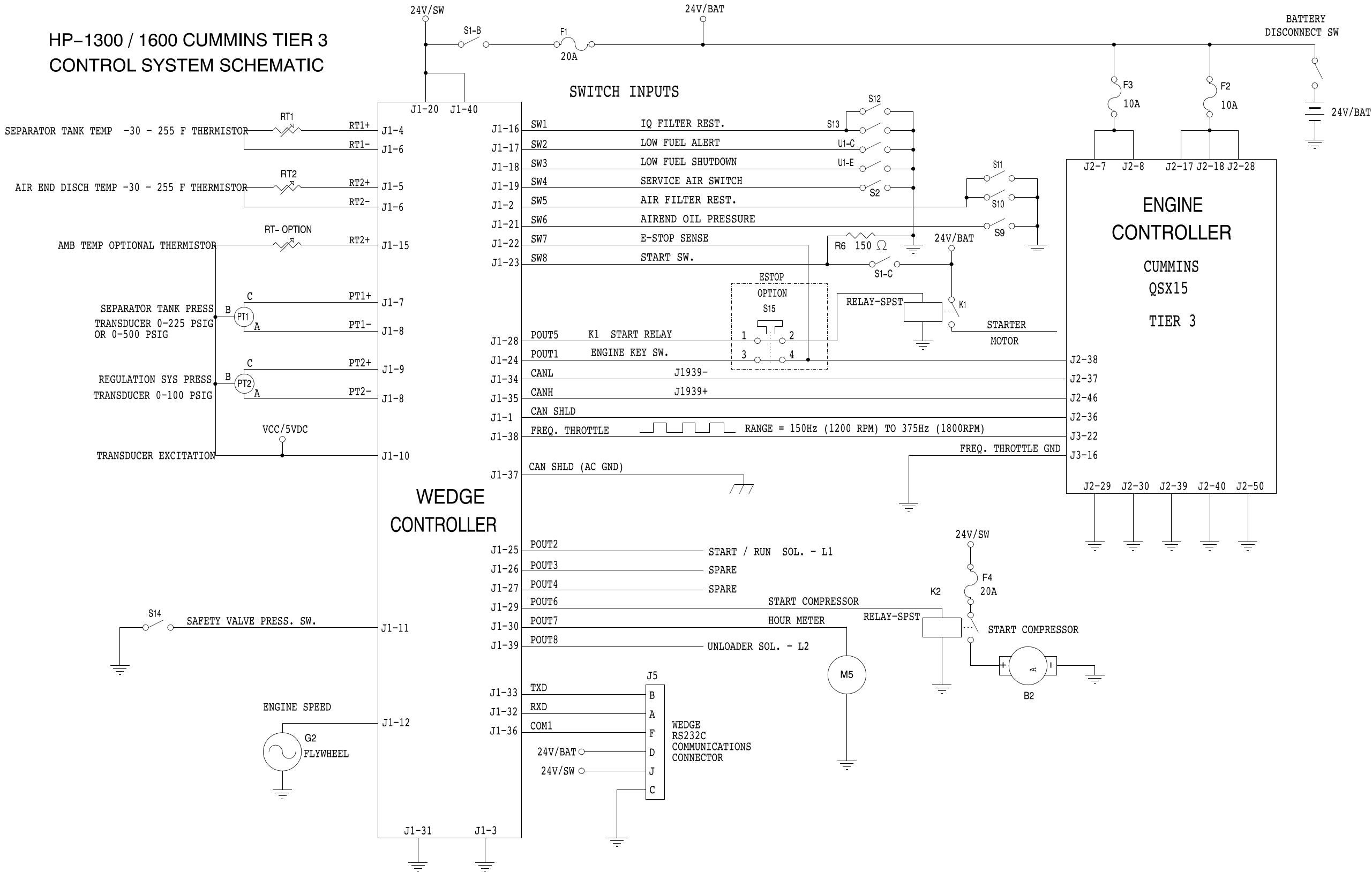
Wiring Parts Lists  
Wiring Parts Lists

| ITEM     | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES      |
|----------|-----------|------------------------------|-----|-----------------------|
| S1       | 22127385  | Switch, Start                |     | <b>.....Continued</b> |
| S2       | 22054076  | Switch, Load                 |     |                       |
| S3       | 22053896  | Switch, Light                |     |                       |
| S5       | 22054050  | Switch, Heater               |     |                       |
| S6       | 22054084  | Switch, Hi / Lo              |     |                       |
| S8       | 22054068  | Switch, Ether                |     |                       |
| S9       | 36757581  | Switch, Air End Oil Pressure |     |                       |
| S10, S11 | 36847838  | Air Filter Switch            |     |                       |
| S12      | 36899615  | IQ Filter Switch             |     |                       |
| S13      | 36899599  | IQ Filter Switch             |     |                       |
| S14      | 36757581  | Safety Valve Press Switch    |     |                       |
| S15      | 22162549  | Switch, E-stop               |     |                       |
| U1       | 54672803  | Sender, Fuel ( Wagon )       |     |                       |
|          | 54672811  | Sender, Fuel ( High Speed )  |     |                       |
| U2       | 54474572  | Switch, Water Level          |     |                       |
| W1       | 22661854  | Chassis Harness              |     |                       |

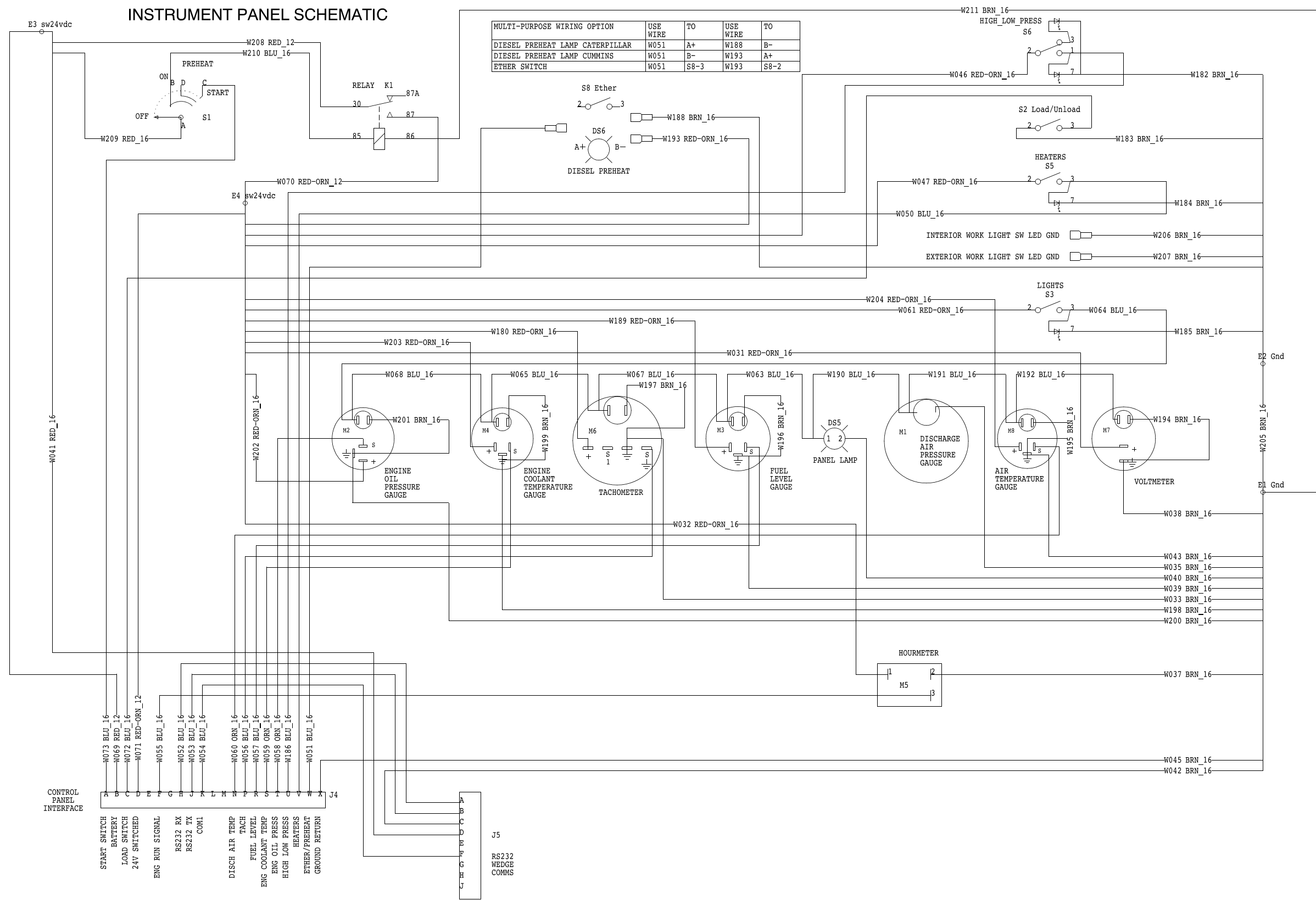


Control System Wiring Diagram

HP-1300 / 1600 CUMMINS TIER 3  
CONTROL SYSTEM SCHEMATIC

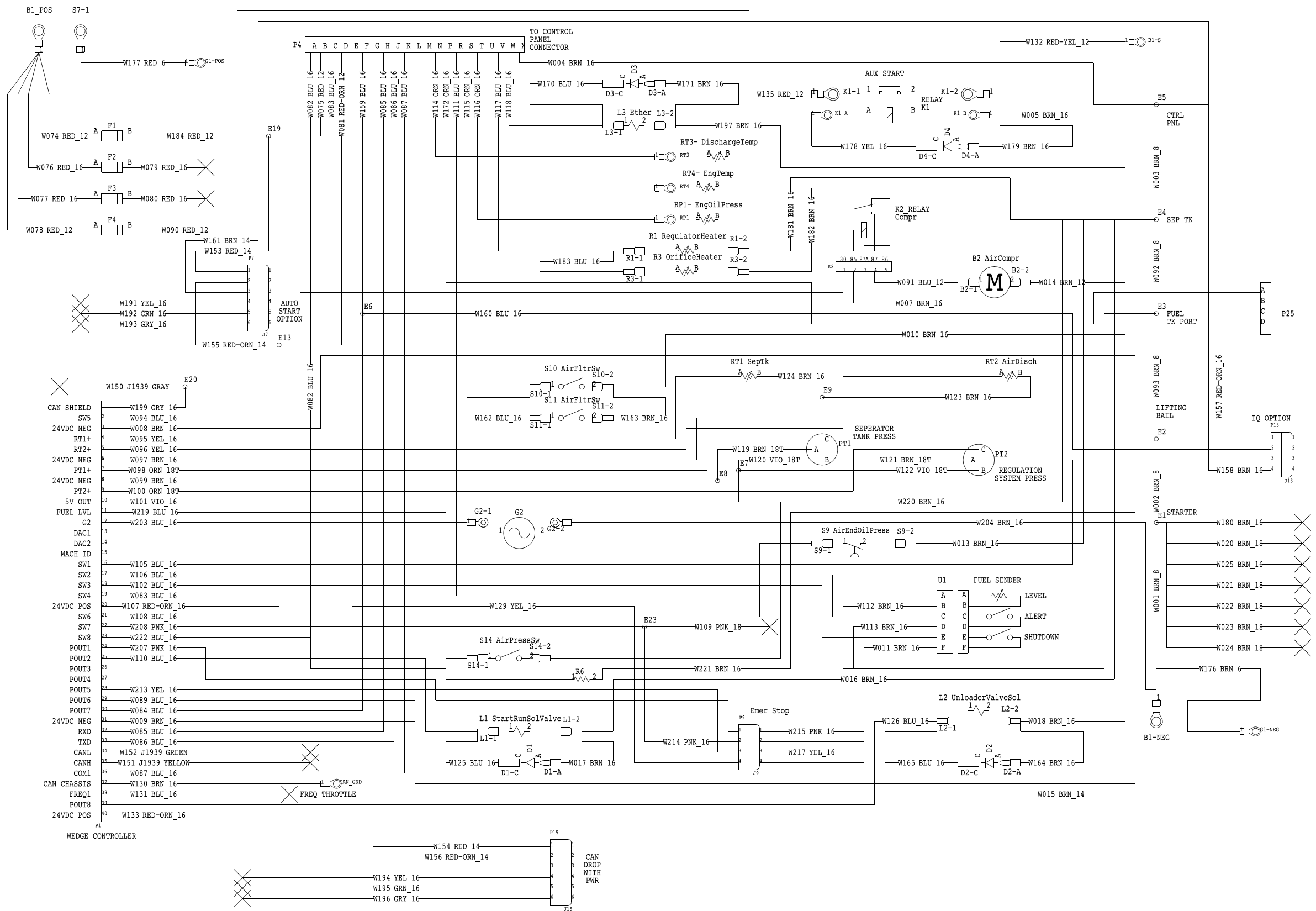


Control System Wiring Diagram



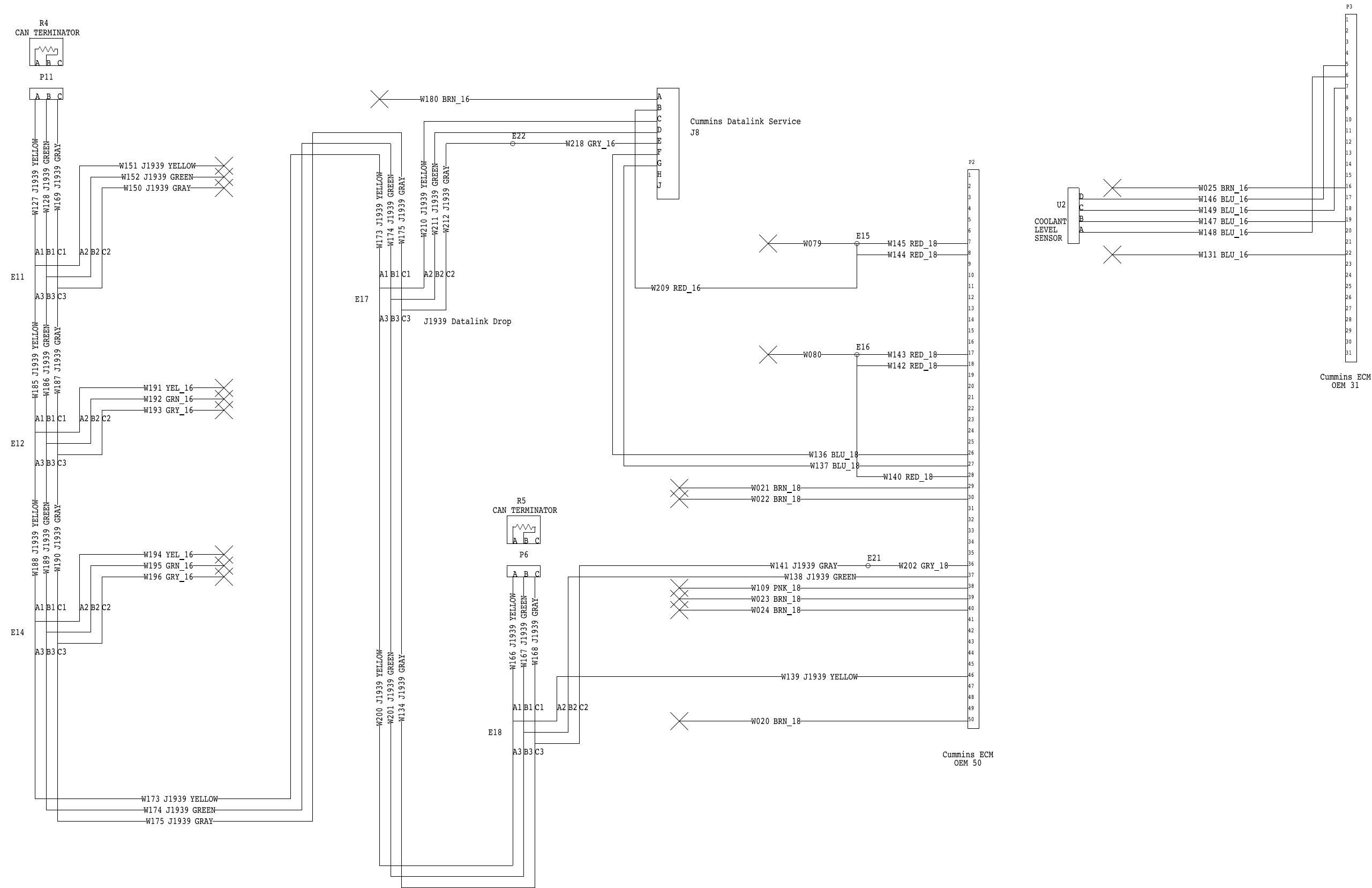
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Control System Wiring Diagram

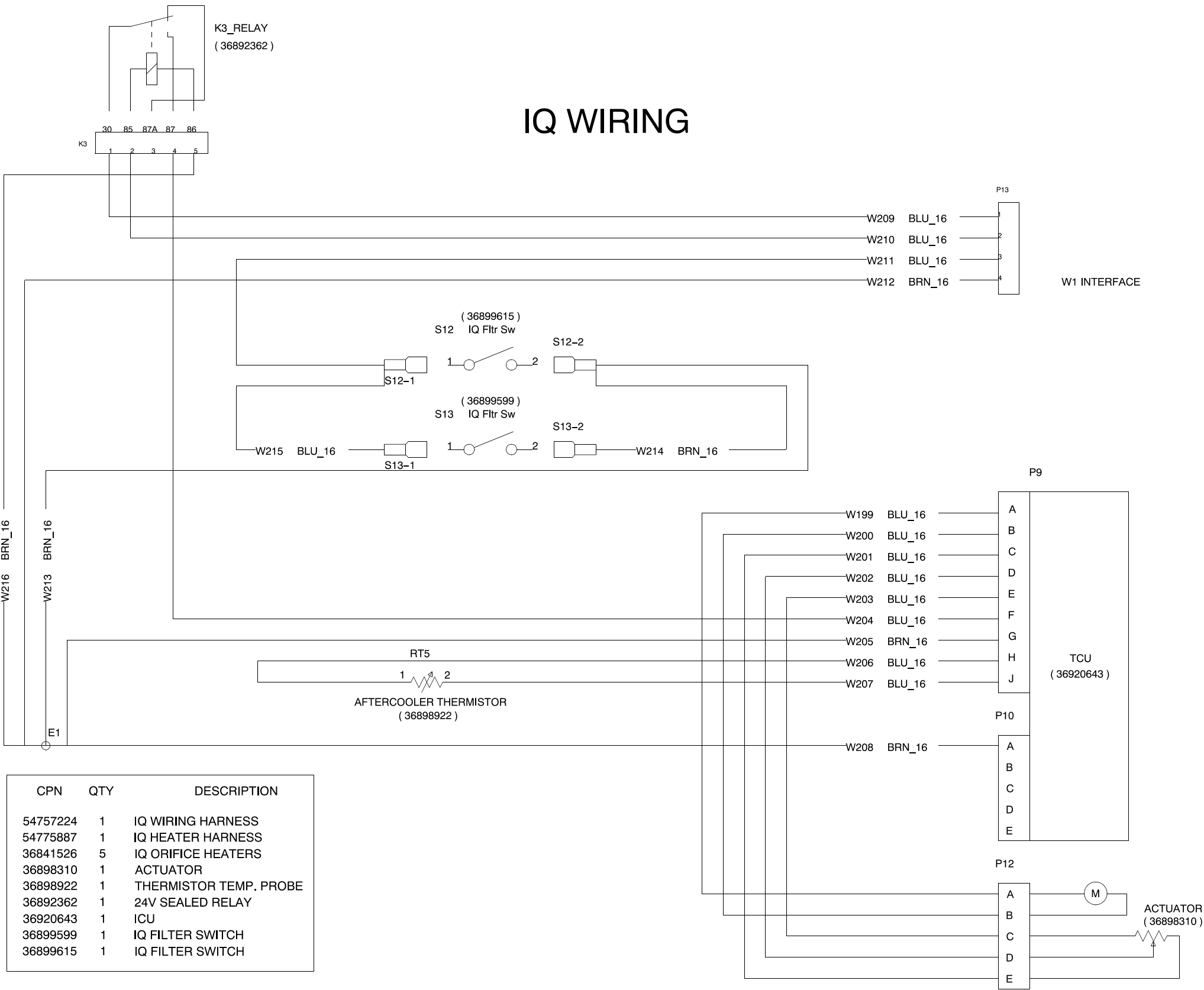


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Control System Wiring Diagram



IQ Wiring Diagram







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| -----    | 75   | 22186845 | 7    | 22846364 | 81   |
| -----    | 2    | -----    | 17   | 35103498 | 30   |
| 22050991 | 53   | -----    | 18   | 35103506 | 30   |
| -----    | 2    | 22189583 | 81   | 35107168 | 14   |
| 22051304 | 17   | 22189831 | 42   | 35108216 | 55   |
| 22053706 | 17   | 22205090 | 70   | 35111566 | 15   |
| 22053896 | 52   | 22205116 | 71   | 35111590 | 13   |
| -----    | 2    | 22205173 | 71   | -----    | 15   |
| 22054050 | 52   | 22205181 | 70   | 35112630 | 41   |
| -----    | 2    | 22205199 | 70   | 35112648 | 41   |
| 22054068 | 53   | 22205207 | 70   | 35112911 | 30   |
| -----    | 2    | 22205215 | 71   | 35113646 | 70   |
| 22054076 | 52   | 22205603 | 80   | 35114545 | 65   |
| -----    | 2    | 22207534 | 70   | 35118728 | 67   |
| 22054084 | 2    | 22209779 | 43   | 35119858 | 41   |
| 22054142 | 52   | 22209787 | 43   | 35123124 | 49   |
| 22054365 | 80   | 22225213 | 72   | 35123272 | 41   |
| 22055701 | 80   | 22277057 | 52   | 35127653 | 21   |
| 22055750 | 56   | -----    | 2    | 35128982 | 55   |
| 22055800 | 52   | 22327266 | 52   | -----    | 3    |
| 22055883 | 53   | -----    | 2    | 35129071 | 41   |
| -----    | 2    | 22329544 | 39   | 35130293 | 68   |
| 22056378 | 80   | 22331557 | 37   | -----    | 70   |
| 22060149 | 40   | -----    | 39   | 35131051 | 58   |
| 22060156 | 35   | 22331839 | 38   | 35132166 | 30   |
| -----    | 36   | -----    | 40   | 35135458 | 32   |
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| 22061394 | 49   | -----    | 40   | 35140722 | 14   |
| 22062566 | 35   | 22383319 | 80   | 35141167 | 14   |
| -----    | 36   | 22399349 | 52   | 35141290 | 41   |
| 22063937 | 76   | -----    | 2    | 35144328 | 35   |
| 22064000 | 67   | 22402317 | 42   | -----    | 36   |
| 22064141 | 67   | 22471882 | 54   | 35144336 | 8    |
| 22065916 | 20   | 22471890 | 54   | 35145077 | 66   |
| 22068811 | 43   | -----    | 56   | 35161025 | 41   |
| 22071591 | 2    | 22474878 | 65   | 35192178 | 43   |
| 22077515 | 9    | 22475560 | 56   | 35221662 | 77   |
| -----    | 14   | 22476063 | 65   | 35221894 | 13   |
| 22097489 | 71   | 22495311 | 31   | 35222017 | 32   |
| 22104541 | 71   | 22496269 | 31   | 35225788 | 55   |
| 22104558 | 70   | 22496277 | 31   | 35248145 | 47   |
| 22105571 | 52   | 22500607 | 35   | 35248319 | 73   |
| 22108690 | 3    | -----    | 38   | 35252618 | 66   |
| 22110571 | 72   | 22501324 | 37   | 35253038 | 33   |
| 22110753 | 18   | 22524508 | 20   | -----    | 34   |
| 22110761 | 18   | 22614416 | 2    | 35272150 | 9    |
| 22112171 | 18   | 22648414 | 19   | 35273937 | 19   |
| 22127385 | 53   | 22694640 | 51   | -----    | 22   |
| -----    | 2    | 22699201 | 33   | 35277797 | 43   |
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| 22139026 | 43   | 22711766 | 51   | 35279116 | 47   |
| 22162549 | 2    | 22711774 | 51   | 35279801 | 35   |
| 22164305 | 80   | 22765374 | 20   | -----    | 36   |
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