CHAMPION

R-SERIES

Air Compressors & Units

R-15 PARTS LIST MANUAL

WARNING

REFER TO THE R-SERIES OPERATION & SERVICE MANUAL FOR IMPORTANT SAFETY INFORMATION. READ, UNDERSTAND AND RETAIN ALL INSTRUCTIONS BEFORE OPERATING OR SERVICING THIS EQUIPMENT TO PREVENT INJURY OR EQUIPMENT DAMAGE.

CQF3454 v.05 Nov 27, 2019

MAINTAIN COMPRESSOR RELIABILITY AND PERFORMANCE WITH GENUINE CHAMPION® COMPRESSOR PARTS AND SUPPORT SERVICES

Champion® Compressor genuine parts, manufactured to design tolerances, are developed for optimum dependability – specifically for Champion compressor systems. Design and material innovations are the result of years of experience with hundreds of different compressor applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Champion Compressor distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the air compressor industry.
Your authorized distributor can support your Champion air compressor with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. A full line of factory tested CHAMPLUB™ compressor lubricants specifically formulated for use in Champion compressors.
3. Repair and maintenance kits designed with the necessary parts to simplify servicing your compressor.

Authorized distributor service technicians are factory trained and skilled in compressor maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

To Contact Champion or locate your local distributor:

Visit: www.championpneumatic.com

Or

Call: (800) 682-9868

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Compressor MODEL, HORSEPOWER and SERIAL NUMBER (see nameplate on unit). All orders for Parts should be placed with the nearest authorized distributor.

Order by part number and description. Reference numbers are for your convenience only.

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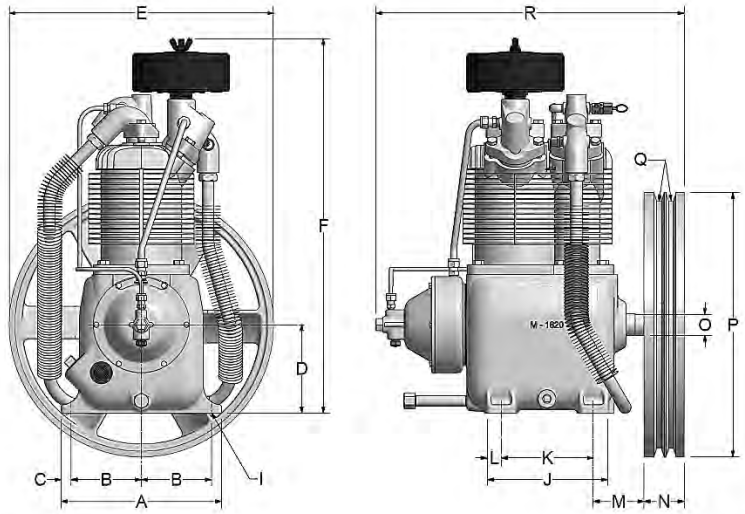
Section 1 – General

Dimensions



C416-C
Ref Drawing

	Item	R10D
A	Base-Width	10”
B	Bolt Down-Width	4-3/8”
C	Bolt Down to Edge	5/8”
D	Base to Crank Center	5-1/2”
E	Overall Width	16-1/2”
F	Overall Height	23-1/4”
I	Bolt Down Hole Dia.	15/32”
J	Base-Depth	7-1/2”
K	Bolt Down Depth	5-3/4”
L	Bolt Down to Edge	7/8”
M	Bolt Hole to Wheel (Max.)	3-5/8”
N	Flywheel Width	2-1/2”
O	Crank Diameter	1-5/16”
P	Flywheel Diameter	16-1/2”
Q	Flywheel Grooves	2VB
R	Overall Depth	20”

- H.P. Exhaust Opening: 3/4” tubing
- Flywheel Rotation – Clockwise when viewed from front, flywheel to rear.

Specifications

BORE & STROKE (INCHES)	NO. OF CYLINDERS	OIL CAPACITY (QTS.)	WEIGHT (LBS)	PRESSURE (PSIG)	CU FT./REV.	MIN./MAX. RPM
4-5/8 & 2-1/2 x 3	2	2	109	175	.02914	400/1050

Performance

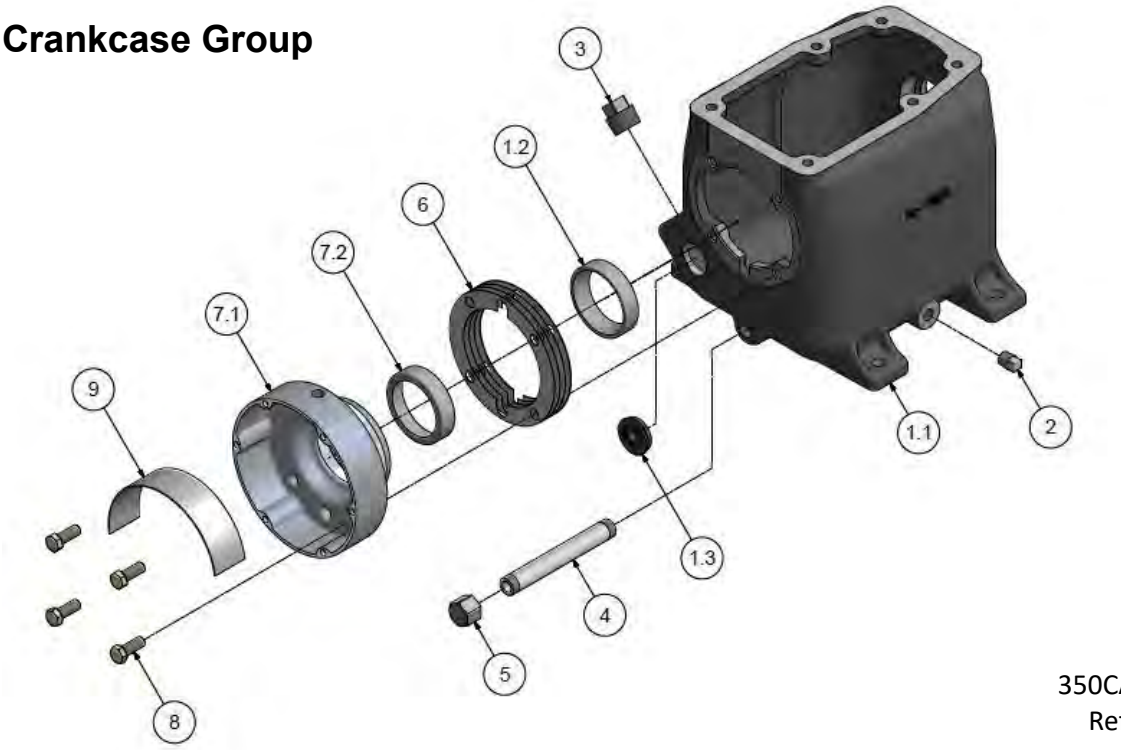
OUTPUT PRESS. PSIG	MOTOR H.P.	PUMP RPM	DISPL. CFM	COOLING AIR FLOW CFM	HEAT REJECTION BTU/HR	APPROX. PULLEY O.D. INCHES
125	5	748	21.8	866	12,000	7.35
175	5	705	20.5	814	12,000	6.95
125 & 175	7.5	961	28.0	1160	16,800	9.35

All data is based on 1800 RPM electric motors as a power source.

Pulley Dia. (approx.) = $\frac{\text{Compressor RPM x Flywheel Dia.}}{\text{Motor or Engine RPM}}$

Section 2 – Compressor

Crankcase Group



350CAP810-02
Ref Drawing

CRANKCASE GROUP **301CAP013**

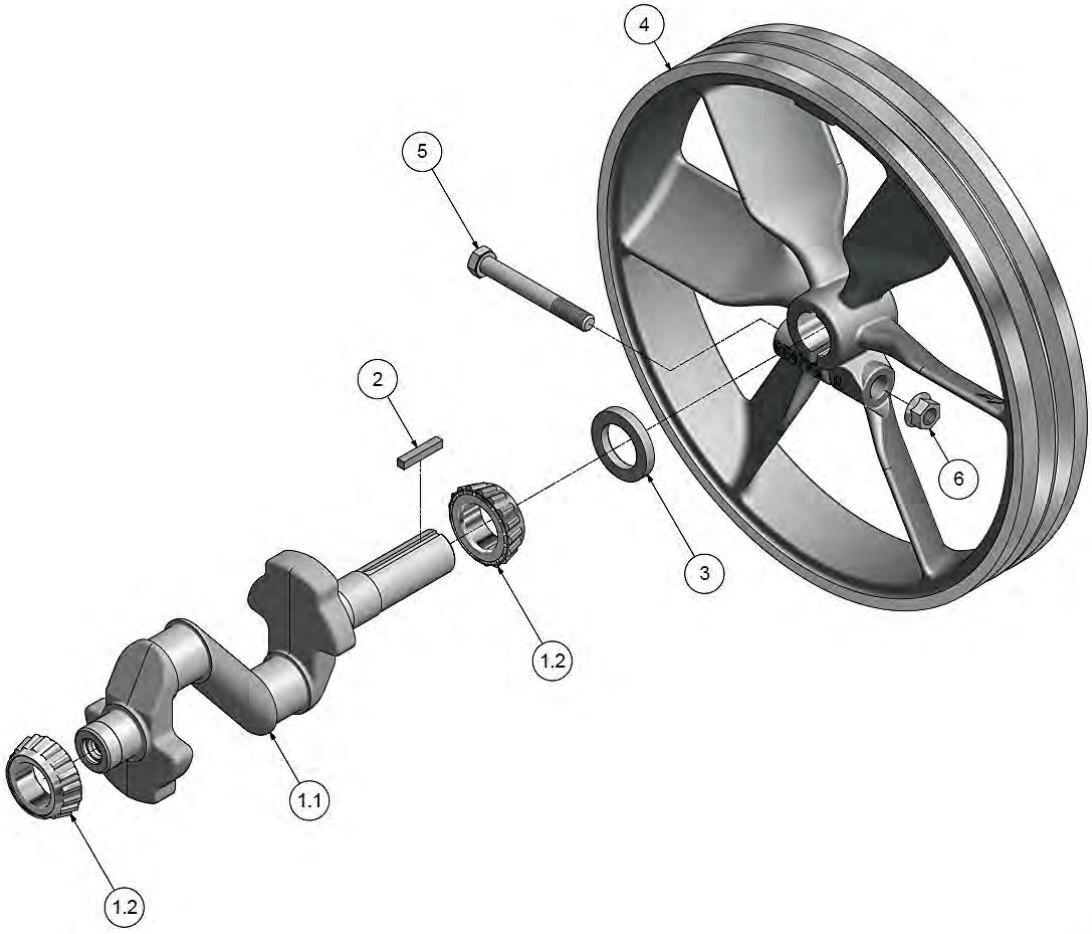
Item	Part Number	Description	Qty
1.1	M1820	CRANKCASE	1
1.2	NR16*	MAIN BEARING, CUP	1
1.3	RE714	OIL LEVEL GAUGE	1
2	64AA5	PLUG	1
3	64A5	PLUG	1
4	M3221	NIPPLE	1
5	M461	CAP	1
6	SE1430*	GASKET, 0.032	1
6	SE1430A*	GASKET, 0.006	1
6	SE1430B*	GASKET, 0.010	1
6	SE1430C*	GASKET, 0.015	1
7.1	NR80A	GOVERNOR HOUSING	1
7.2	NR16*	MAIN BEARING, CUP	1
8	M2343	SCREW (torque @ 400 in-lbs)	4
9	NR104	PLATE,GOVERNOR BAFFLE	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1.2,7.2	ZNR16A	MAIN BEARING	2
6	Z130	GOVERNOR HOUSING GASKET SET	1
-	Z764	COMPRESSOR GASKET SET (excludes valve gaskets)	1

Crankshaft Group



359CAP810-01
Ref Drawing

CRANKSHAFT GROUP **301CAP004**

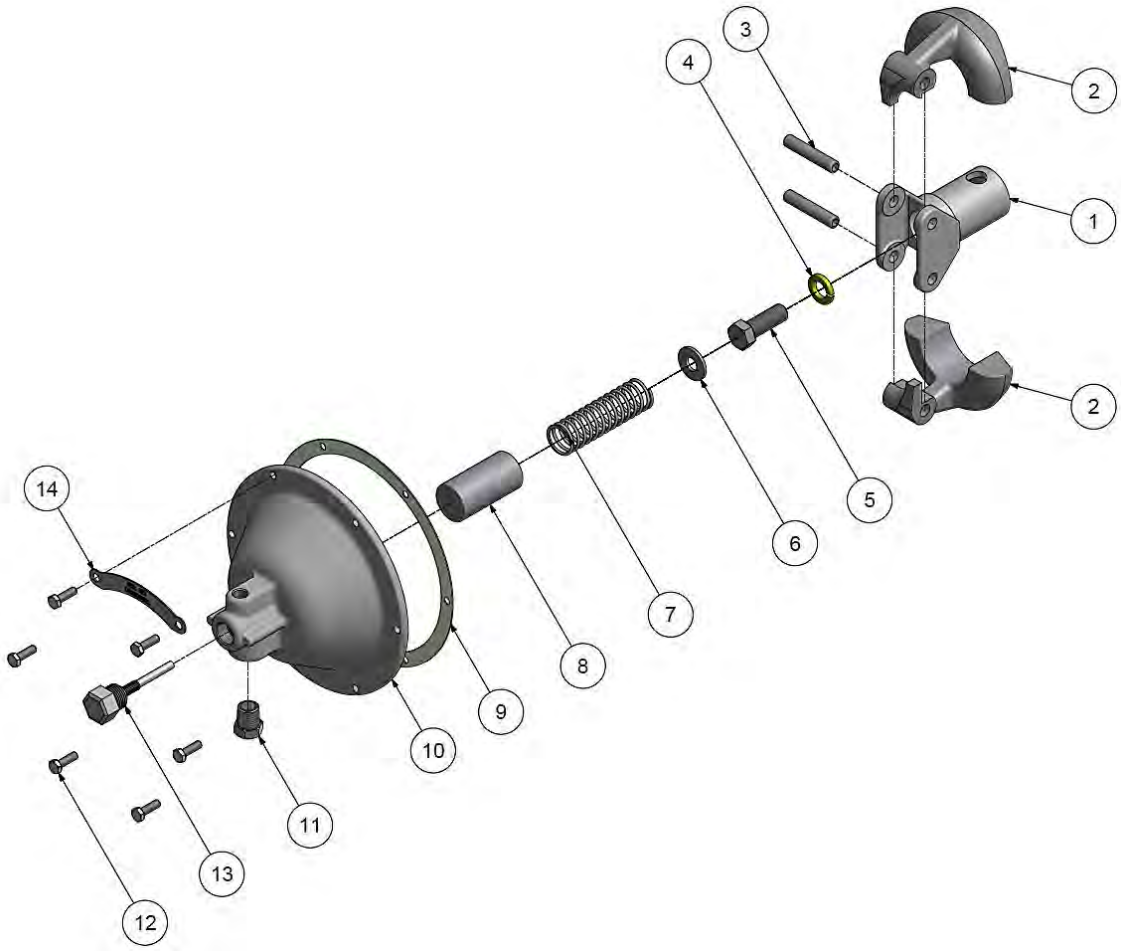
Item	Part Number	Description	Qty
1.1	R155	CRANKSHAFT	1
1.2	NR16A*	MAIN BEARING, CONE & ROLLER	2
2	U8	KEY	1
3	OSN4	OIL SEAL	1
4	NR7A	FLYWHEEL	1
5	655EE160	SCREW (torque @ 600 in-lbs)	1
6	M2955	NUT	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1.2	ZNR16A	MAIN BEARING	1

Centrifugal Unloader Group



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Ref Drawing

Centrifugal Unloader Group

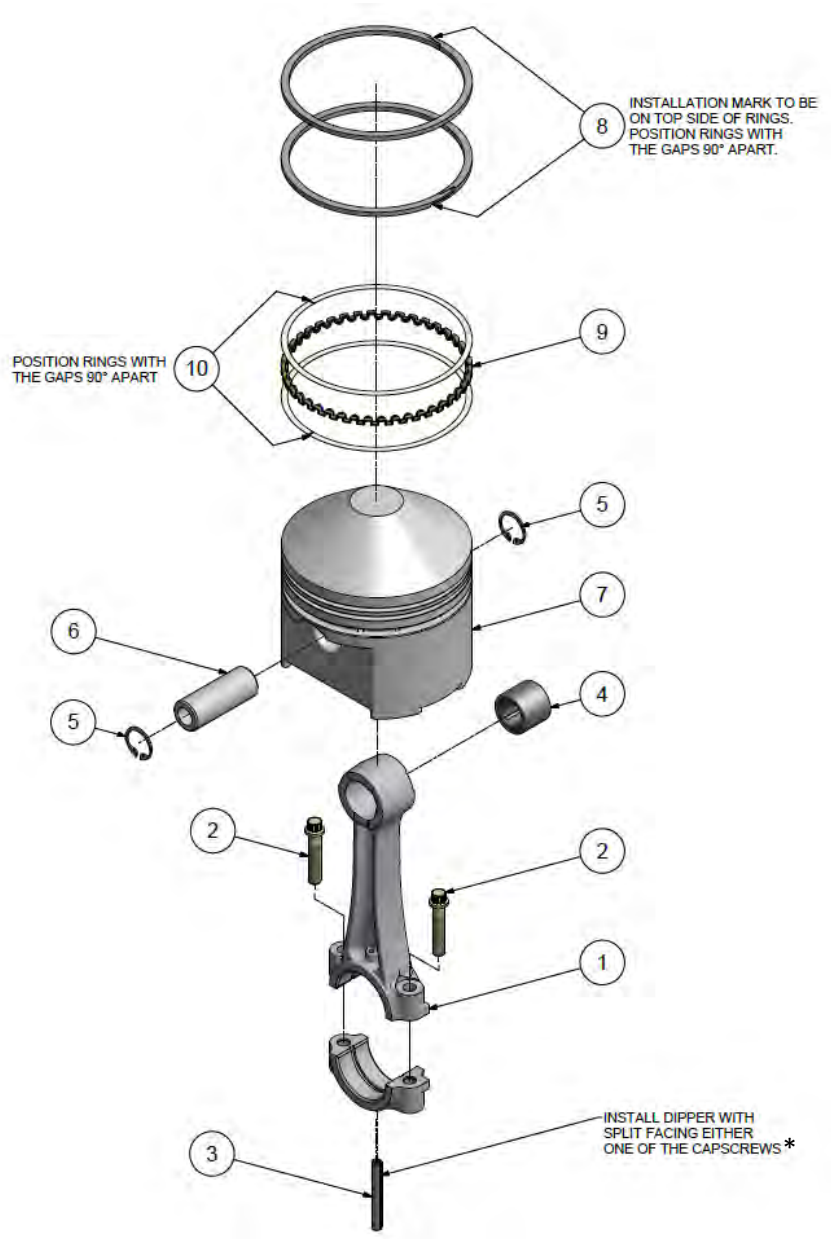
CENTRIFUGAL UNLOADER GROUP **300CAP890**

Item	Part Number	Description	Qty
1	SE583B	SPINDLE,GOVERNOR	1
2	SE582B	WEIGHT,GOVERNOR	2
3	SE592A	PIN, GOVERNOR WEIGHT	2
4	95B4Z	WASHER-LOCK	1
5	M2345	SCREW (torque @ 470 in-lbs)	1
6	M912A	SPACER,CENTRIFUGAL UNLOADER	1
7	SE590	SPRING,GOVERNOR	1
8	SE587	SLEEVE, SPRING	1
9	SE1489	GASKET,GOVERNOR COVER	1
10	TEN010354	GOVERNOR HOUSING COVER	1
11	TEN013303	BREATHER	1
12	M3473	SCREW (torque @ 44 in-lbs)	6
13	Z12414A	RELEASE VALVE KIT	1
14	M3658	SERIAL NUMBER PLATE	1

REPAIR PARTS

Item	Part Number	Description	Qty
-	Z764	COMPRESSOR GASKET SET (excludes valve gaskets)	1
-	ZRE10100A	GOVERNOR COVER ASSEMBLY KIT	1

Piston/Rod Group – Low Pressure



361CAP810-00
Ref Drawing

* ORIENT ROD ON CRANKSHAFT SO THAT THE SPLIT EDGE IS FACING THE DIRECTION OF TRAVEL THROUGH LUBRICANT

Piston/Rod Group – Low Pressure

LOW PRESSURE ROD/PISTON GROUP **303CAP4056**

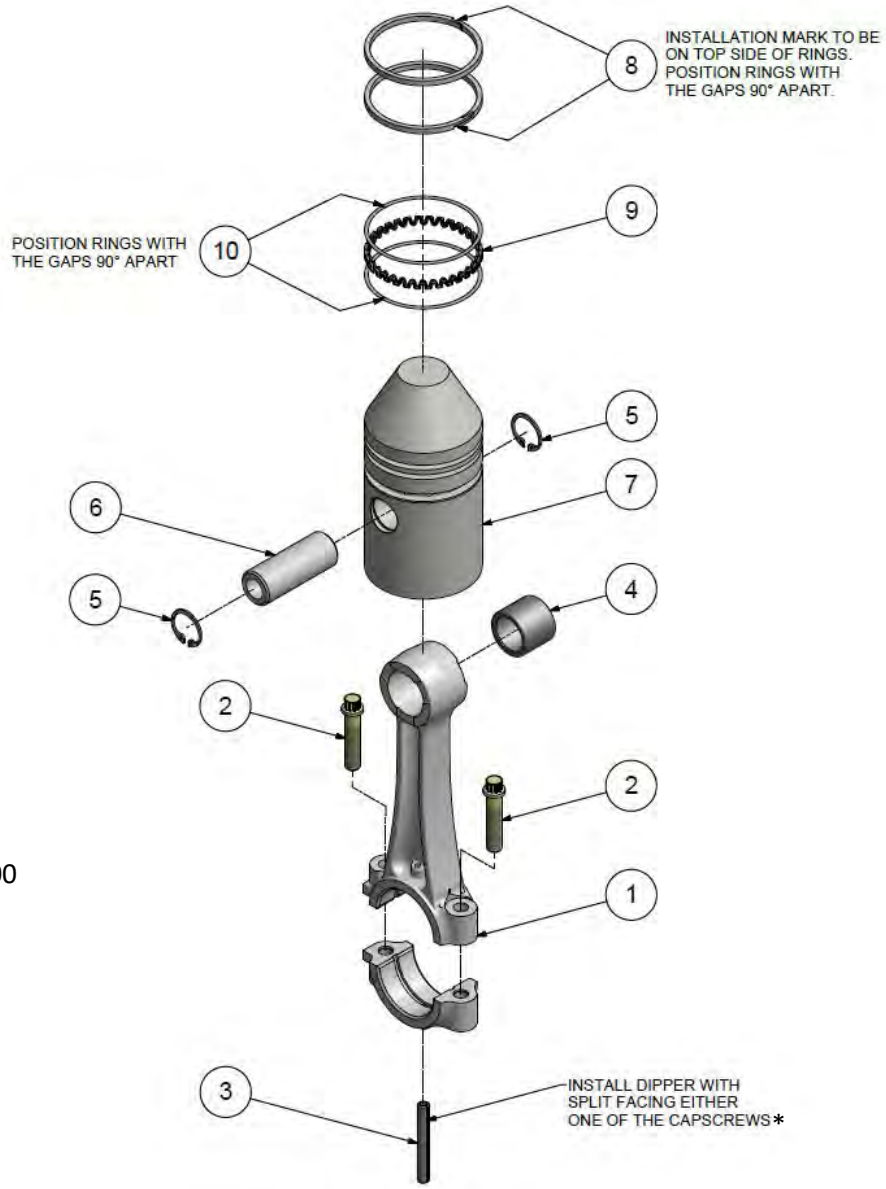
Item	Part Number	Description	Qty
1	M1582*	CONNECTING ROD	1
2	M1583	SCREW (torque @ 230 in-lbs)	2
3	R1524	OIL DIPPER	1
4	R1037	BEARING,WRIST PIN	1
5	R10102	RING,RETAINING	2
6	R1021	PIN,PISTON	1
7	R154	PISTON	1
8	P02788A*	RING,PISTON	2
9	RE1410D1*	RING,EXPANDER	1
10	RE1410D2*	RING,RAIL	2

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1-4	Z750	CONNECTING ROD ASSEMBLY KIT	1
5-7	ZR154	PISTON KIT, LOW PRESSURE WITH PIN	1
8-10	Z798	RING SET, LOW PRESSURE	1
5-10	Z9101	PISTON & RING KIT, LOW PRESSURE	1
-	Z799	COMPLETE RING SET, HIGH & LOW PRESSURE	1

Piston/Rod Group – High Pressure



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Ref Drawing

* ORIENT ROD ON CRANKSHAFT SO THAT THE SPLIT EDGE IS FACING THE DIRECTION OF TRAVEL THROUGH LUBRICANT

Piston/Rod Group – High Pressure

HIGH PRESSURE ROD/PISTON GROUP **302CAP4056**

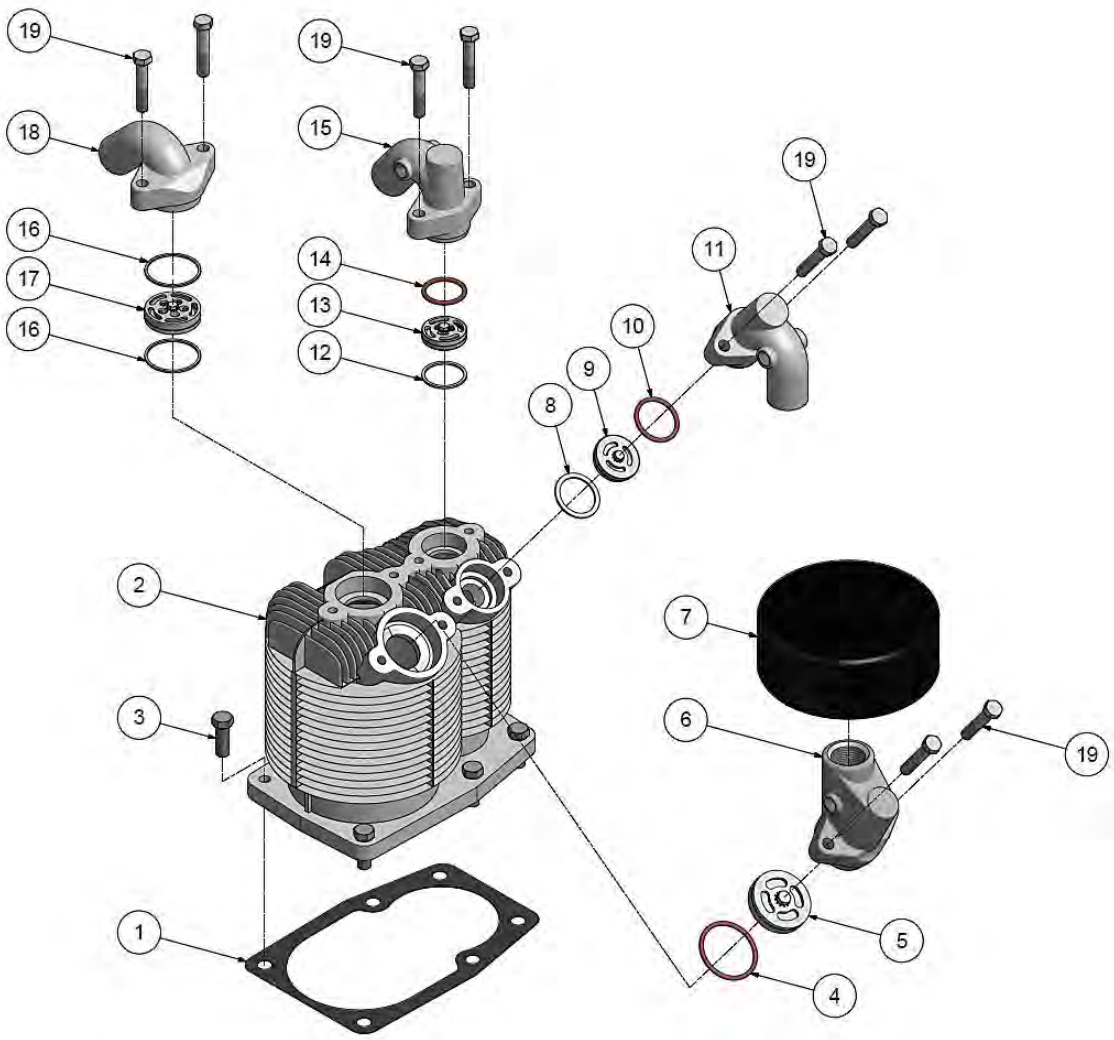
Item	Part Number	Description	Qty
1	M1582*	CONNECTING ROD	1
2	M1583	SCREW (torque @ 230 in-lbs)	2
3	R1524	OIL DIPPER	1
4	R1037	BEARING,WRIST PIN	1
5	R10102	RING,RETAINING	2
6	R1021	PIN,PISTON	1
7	P02709C	PISTON	1
8	P02785A*	RING,PISTON	2
9	RE3610D1*	RING,EXPANDER	1
10	RE3610D2*	RING,RAIL	2

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1-4	Z750	CONNECTING ROD ASSEMBLY KIT	1
5-7	ZP2709C	PISTON KIT, HIGH PRESSURE WITH PIN	1
8-10	Z797	RING SET, HIGH PRESSURE	1
5-10	Z9100	PISTON & RING KIT, HIGH PRESSURE	1
-	Z799	COMPLETE RING SET, HIGH & LOW PRESSURE	1

Cylinder Group – Standard



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Ref Drawing

Cylinder Group – Standard

CYLINDER GROUP **300CAP4042**

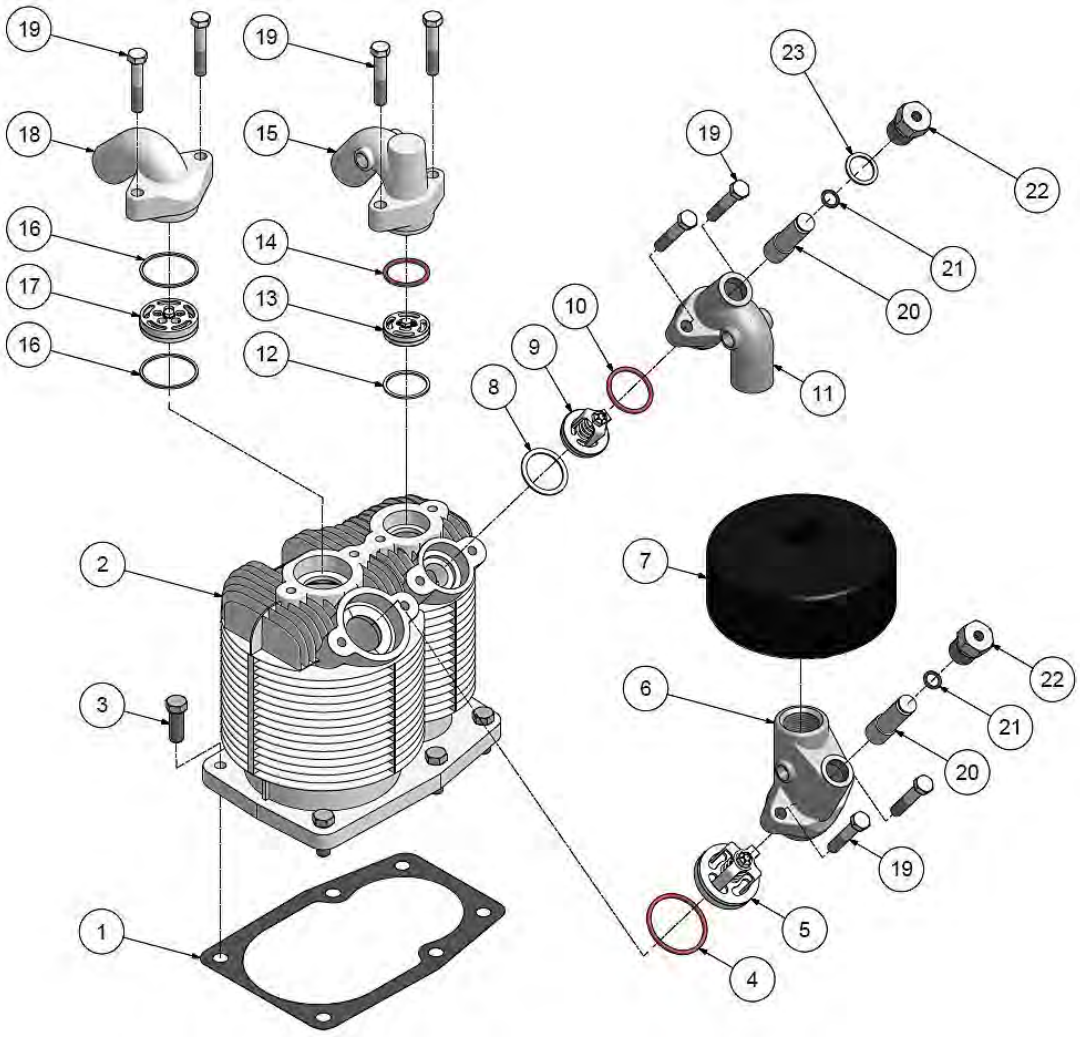
Item	Part Number	Description	Qty
1	NR29A	GASKET,CYLINDER FLANGE	1
2	P12237D	CYLINDER	1
3	M2345	SCREW (torque @ 400 in-lbs)	6
4	CQP14832A	GASKET,VALVE,LP,COPPER	1
5	Z812A*	VALVE,LP,INTAKE	1
6	P09669C	MANIFOLD,LP INTAKE	1
7	P04999A	FILTER SILENCER	1
8	P09171A	GASKET,VALVE,HP,ALUMINUM	1
9	Z11775*	VALVE,HP,INTAKE	1
10	CQP14870A	GASKET,VALVE,HP,COPPER	1
11	P12302B	MANIFOLD,HP INTAKE	1
12	P04137A	GASKET,VALVE,HP,ALUMINUM	1
13	Z115A*	VALVE,HP,EXHAUST	1
14	CQP14869A	GASKET,VALVE,HP,COPPER	1
15	P12303B	MANIFOLD,HP EXHAUST	1
16	P04135A	GASKET,VALVE,LP,ALUMINUM	2
17	Z813A*	VALVE,LP,EXHAUST	1
18	RE102E	MANIFOLD,LP EXHAUST	1
19	655ED080	SCREW (torque @ 200 in-lbs)	8

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
4, 5, 8, 9, 10, 12, 13, 14, 16, 17	Z5155	COMPLETE VALVE SET, WITH GASKET SET	1
4, 8, 10, 12, 14, 16	Z5156	COMPLETE VALVE GASKET SET	1
-	Z764	COMPRESSOR GASKET SET (excludes valve gaskets)	1
4, 5	Z812	KIT, LP INTAKE VALVE WITH GASKET	1
8, 9, 10	Z11937	KIT, HP INTAKE VALVE WITH GASKETS	1
12, 13, 14	Z115	KIT, HP EXHAUST VALVE WITH GASKETS	1
16, 17	Z813	KIT, LP EXHAUST VALVE WITH GASKETS	1

Cylinder Group – with Head Unloaders (optional)



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Ref Drawing

Cylinder Group – with Head Unloaders (optional)

CYLINDER GROUP - HEAD UNLOADERS **302CAP4042**

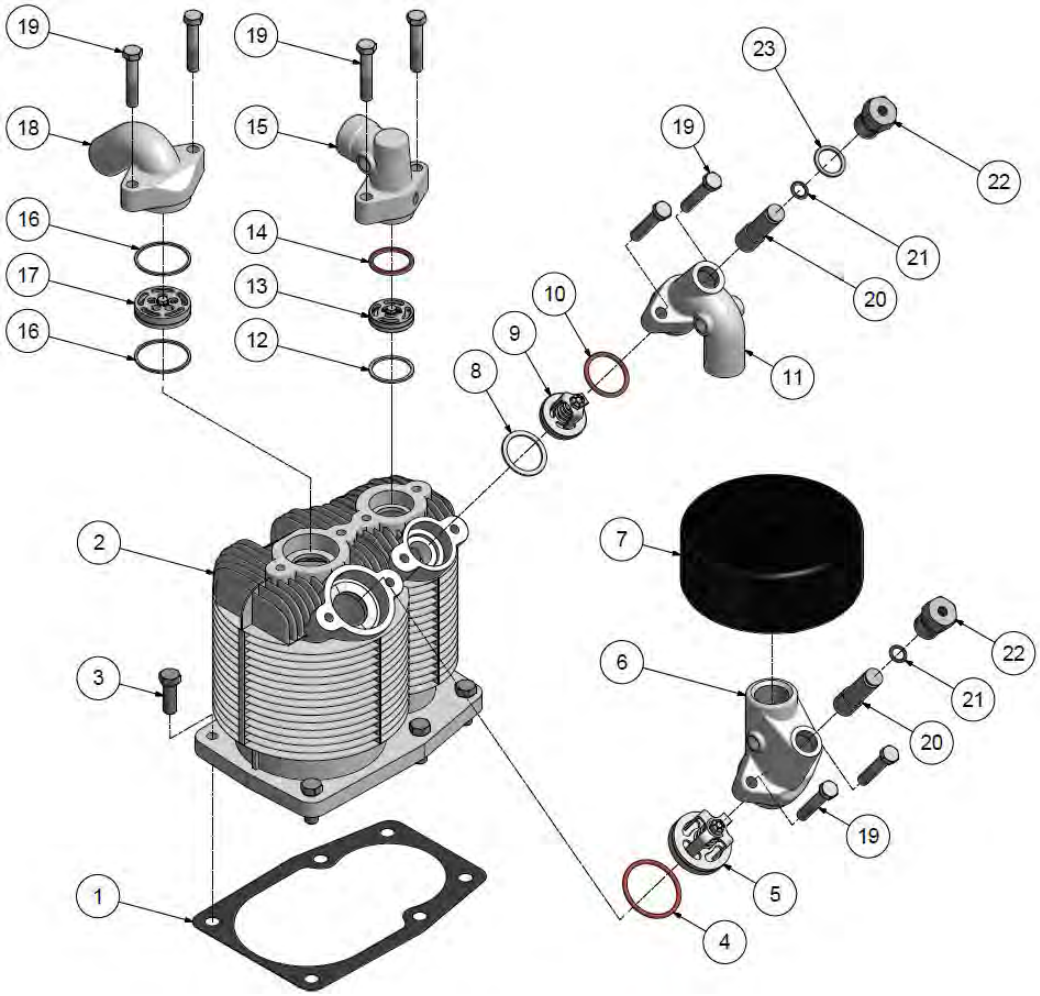
Item	Part Number	Description	Qty
1	NR29A	GASKET,CYLINDER FLANGE	1
2	P12237D	CYLINDER	1
3	M2345	SCREW (torque @ 400 in-lbs)	6
4	CQP14832A	GASKET,VALVE,LP,COPPER	1
5	Z4877A*	VALVE,LP,INTAKE,UNLOADER	1
6	P09670C	MANIFOLD,LP INTAKE	1
7	P04999A	FILTER SILENCER	1
8	P09171A	GASKET,VALVE,HP,ALUMINUM	1
9	Z11936*	VALVE,HP,INTAKE,UNLOADER	1
10	CQP14870A	GASKET,VALVE,HP,COPPER	1
11	P12304B	MANIFOLD,HP INTAKE,HU	1
12	P04137A	GASKET,VALVE,HP,ALUMINUM	1
13	Z115A*	VALVE,HP,EXHAUST	1
14	CQP14869A	GASKET,VALVE,HP,COPPER	1
15	P12303B	MANIFOLD,HP EXHAUST	1
16	P04135A	GASKET,VALVE,LP,ALUMINUM	2
17	Z813A*	VALVE,LP,EXHAUST,SUB-ASSY	1
18	RE102E	MANIFOLD,EXHAUST LP	1
19	655ED080	SCREW (torque @ 200 in-lbs)	8
20	P09923A	UNLOADER PISTON	2
21	P02547A	O-RING	2
22	P02306B	VALVE,CYLINDER,FOR HU	2
23	P00746A	GASKET	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
4, 5, 8, 9, 10, 12, 13, 14, 16, 17	Z6795	COMPLETE VALVE SET, WITH GASKET SET	1
4, 8, 10, 12, 14, 16	Z5156	COMPLETE VALVE GASKET SET	1
-	Z764	COMPRESSOR GASKET SET (excludes valve gaskets)	1
-	Z9144	KIT, HEAD UNLOADER CONVERSION (includes manifolds, unloader valves assemblies, pilot valve, fittings and tubing)	1
4, 5	Z4877	KIT, LP INTAKE VALVE WITH GASKET	1
8, 9, 10	Z11938	KIT, HP INTAKE VALVE WITH GASKETS	1
12, 13, 14	Z115	KIT, HP EXHAUST VALVE WITH GASKETS	1
16, 17	Z813	KIT, LP EXHAUST VALVE WITH GASKETS	1
11, 20-23	Z9143	KIT, HP INTAKE MANIFOLD GROUP	1
6, 20-22	Z6312	KIT, LP INTAKE MANIFOLD GROUP	1

Cylinder Group – Engine Driven



387CAP810-00
Ref Drawing

Cylinder Group – Engine Driven

CYLINDER GROUP – ENGINE DRIVEN **304CAP4042**

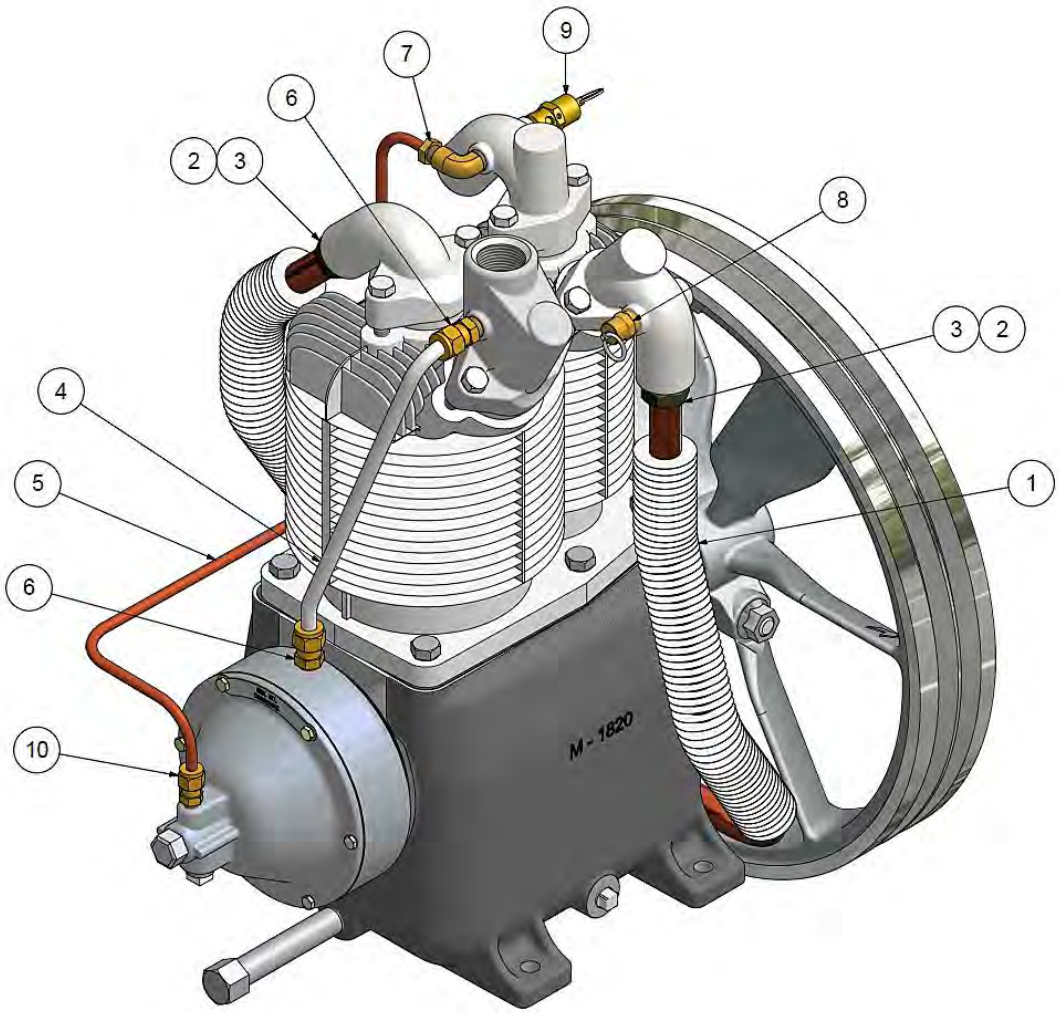
Item	Part Number	Description	Qty
1	NR29A	GASKET,CYLINDER FLANGE	1
2	P12237D	CYLINDER	1
3	M2345	SCREW (torque @ 400 in-lbs)	6
4	CQP14832A	GASKET,VALVE,LP,COPPER	1
5	Z4877A	VALVE,LP,INTAKE,UNLOADER	1
6	P09670C	MANIFOLD,LP INTAKE	1
7	P04999A	FILTER SILENCER	1
8	P09171A	GASKET,VALVE,HP,ALUMINUM	1
9	Z11936	VALVE,HP,INTAKE,UNLOADER	1
10	CQP14870A	GASKET,VALVE,HP,COPPER	1
11	P12304B	MANIFOLD,HP INTAKE,HU	1
12	P04137A	GASKET,VALVE,HP,ALUMINUM	1
13	Z115A	VALVE,HP,EXHAUST	1
14	CQP14869A	GASKET,VALVE,HP,COPPER	1
15	M1717	MANIFOLD,HP EXHAUST,NPT	1
16	P04135A	GASKET,VALVE,LP,ALUMINUM	2
17	Z813A	VALVE,LP,EXHAUST,SUB-ASSY	1
18	RE102E	MANIFOLD,EXHAUST LP	1
19	655ED080	SCREW (torque @ 200 in-lbs)	8
20	P09923A	UNLOADER PISTON	2
21	P02547A	O-RING	2
22	P02306B	VALVE,CYLINDER,FOR HU	2
23	P00746A	GASKET	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
4, 5, 8, 9, 10, 12, 13, 14, 16, 17	Z6795	COMPLETE VALVE SET, WITH GASKET SET	1
4, 8, 10, 12, 14, 16	Z5156	COMPLETE VALVE GASKET SET	1
-	Z764	COMPRESSOR GASKET SET (excludes valve gaskets)	1
4, 5	Z4877	KIT, LP INTAKE VALVE WITH GASKET	1
8, 9, 10	Z11938	KIT, HP INTAKE VALVE WITH GASKETS	1
12, 13, 14	Z115	KIT, HP EXHAUST VALVE WITH GASKETS	1
16, 17	Z813	KIT, LP EXHAUST VALVE WITH GASKETS	1
11, 20-23	Z9143	KIT, HP INTAKE MANIFOLD GROUP	1
6, 20-22	Z6312	KIT, LP INTAKE MANIFOLD GROUP	1

Tubing and Control Group – Standard



356CAP810-00
Ref Drawing

Tubing and Control Group – Standard

TUBING & CONTROL GROUP **300CAP272**

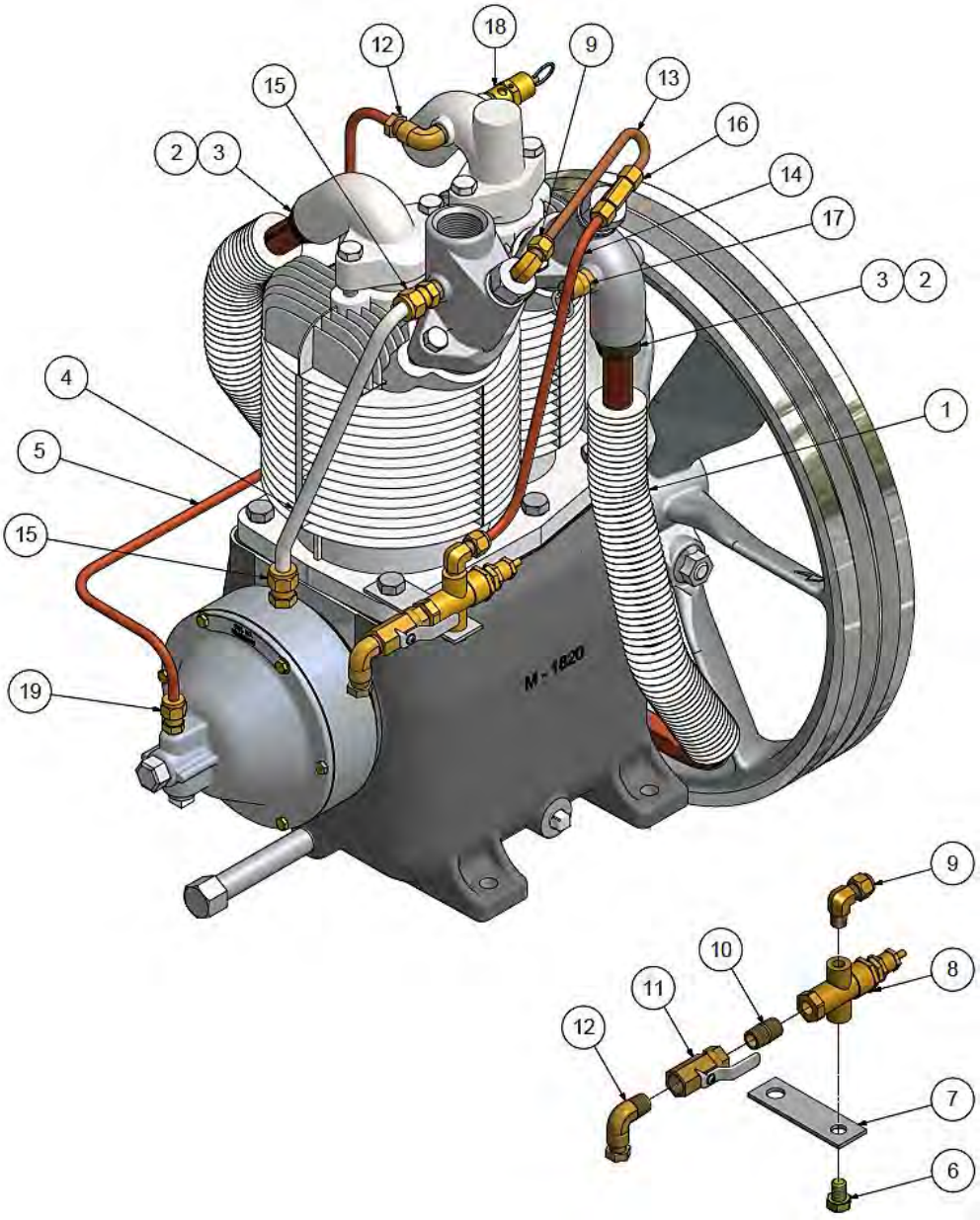
Item	Part Number	Description	Qty
1	315CAP272*	INTERCOOLER	1
2	SE542	COMPRESSION FERRULE	2
3	SE541	COMPRESSION NUT	2
4	UB375*	BREATHER TUBE	1
5	306CAP294	UNLOADER TUBE	1
6	M2864	COMPRESSION FITTING, STRAIGHT	2
7	86A40	COMPRESSION FITTING, ELBOW	1
8	M3685	PRESSURE RELIEF VALVE, 75 PSIG (INTERSTAGE)	1
9	P09704A	PRESSURE RELIEF VALVE, 270 PSIG (DISCHARGE)	1
10	M2863	COMPRESSION FITTING, STRAIGHT	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1, 2, 3	Z9140	KIT, INTERCOOLER WITH FITTINGS	1
4, 6	ZUB375	KIT, BREATHER TUBE WITH FITTINGS	1

Tubing and Control Group – with Head Unloaders (optional)



358CAP810-00
Ref Drawing

Tubing and Control Group – with Head Unloaders (optional)

TUBING & CONTROL GROUP - HEAD UNLOADERS **302CAP272**

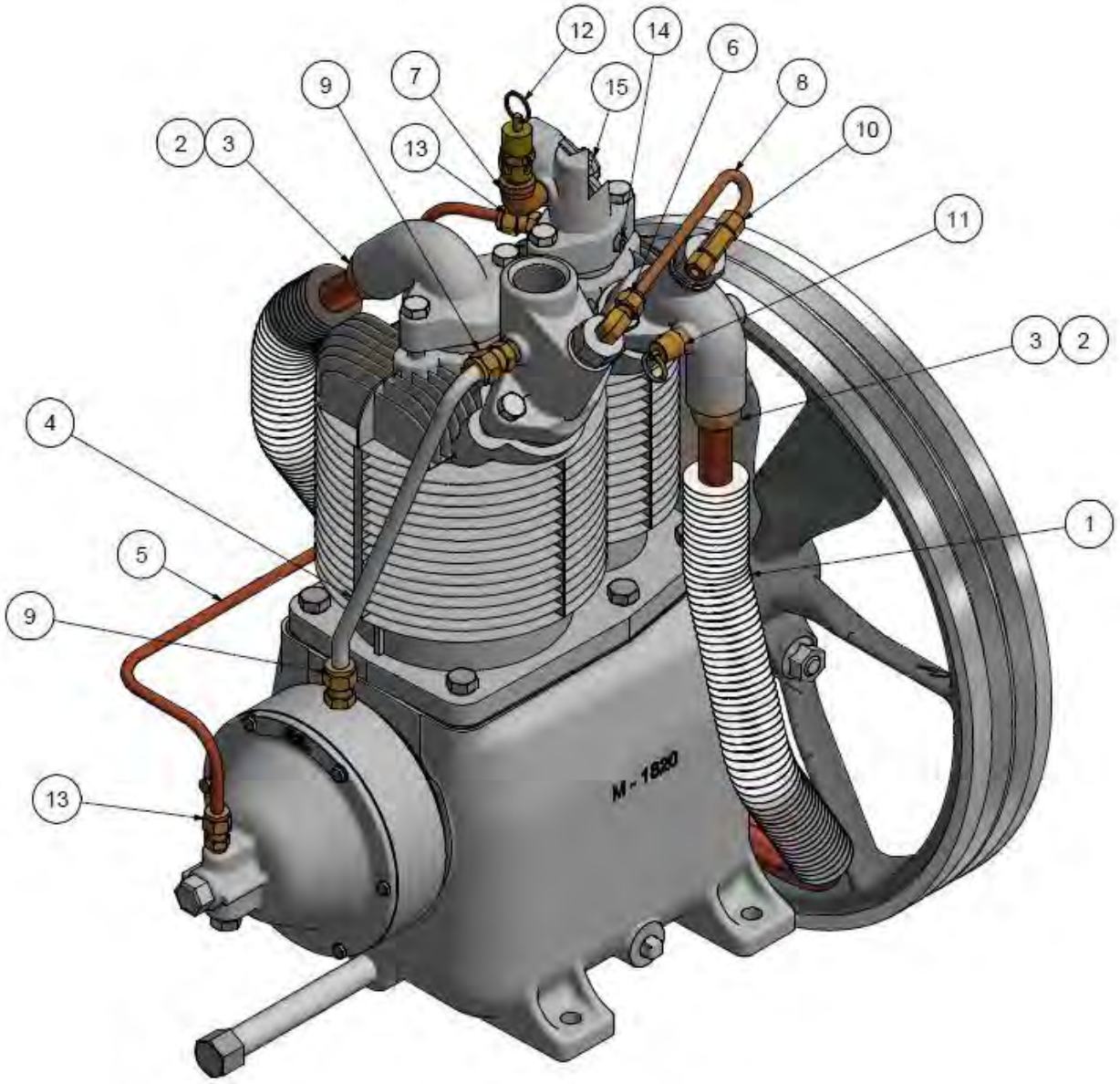
Item	Part Number	Description	Qty
1	315CAP272*	INTERCOOLER	1
2	SE542	COMPRESSION FERRULE	2
3	SE541	COMPRESSION NUT	2
4	UB375*	BREATHER TUBE	1
5	306CAP294	UNLOADER TUBE	1
6	M3465	SCREW	1
7	M807	BRACKET	1
8	M2854	PILOT VALVE 90-120# (125 psi discharge)	1
8	M2853	PILOT VALVE 140-170# (175 psi discharge)	1
9	M2868	COMPRESSION FITTING, ELBOW	2
10	63Z15	PIPE NIPPLE	1
11	VP1022988	BALL VALVE	1
12	86A40	COMPRESSION FITTING, ELBOW	2
13	P12556A	TUBE, MANIFOLD	1
14	300CAP294	TUBE, HEAD UNLOADER	1
15	M2864	COMPRESSION FITTING, STRAIGHT	2
16	M2879	COMPRESSION FITTING, TEE	1
17	M3685	PRESSURE RELIEF VALVE, 75 PSIG (INTERSTAGE)	1
18	P09704A	PRESSURE RELIEF VALVE, 270 PSIG (DISCHARGE)	1
19	M2863	COMPRESSION FITTING, STRAIGHT	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1, 2, 3	Z9140	KIT, INTERCOOLER WITH FITTINGS	1
4, 15	ZUB375	KIT, BREATHER TUBE WITH FITTINGS	1
-	Z9144	KIT, HEAD UNLOADER CONVERSION (includes manifolds, unloader valves assemblies, pilot valve, fittings and tubing)	1

Tubing and Control Group – Engine Driven



385CAP810-01
Ref Drawing

Tubing and Control Group – Engine Driven

TUBING & CONTROL GROUP – ENGINE DRIVEN **309CAP272**

Item	Part Number	Description	Qty
1	315CAP272*	INTERCOOLER	1
2	SE542	COMPRESSION FERRULE	2
3	SE541	COMPRESSION NUT	2
4	UB375*	BREATHER TUBE	1
5	306CAP294	UNLOADER TUBE	1
6	M2868	COMPRESSION FITTING, ELBOW	1
7	M3088	STREET ELBOW	1
8	P12556A	TUBE, MANIFOLD	1
9	M2864	COMPRESSION FITTING, STRAIGHT	2
10	M2879	COMPRESSION FITTING, TEE	1
11	M3685	PRESSURE RELIEF VALVE, 75 PSIG (INTERSTAGE)	1
12	P09704A	PRESSURE RELIEF VALVE, 270 PSIG (DISCHARGE)	1
13	M2863	COMPRESSION FITTING, STRAIGHT	1
14	64AC1	PLUG	1
15	64AC2	PLUG	1

*not sold separately – see repair parts

REPAIR PARTS

Item	Part Number	Description	Qty
1, 2, 3	Z9140	KIT, INTERCOOLER WITH FITTINGS	1
4, 15	ZUB375	KIT, BREATHER TUBE WITH FITTINGS	1

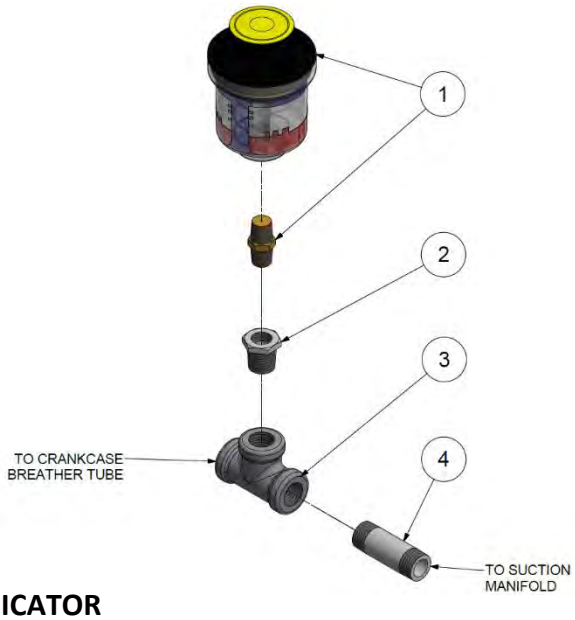
High Temperature Switch (optional)

TEN008394-01
Ref Drawing

HIGH TEMPERATURE SWITCH **TEN008394**

Item	Part Number	Description	Qty
1	TEN001792	SWITCH, HIGH TEMP, 450F	1
2	003FE98	CORD GRIP	1
3	TEN008088	SEALING RING	1
4	TEN008089	LOCK NUT	1
5	M1003B	PIPE TEE	1
6	P08798A	PIPE NIPPLE	1

Filter Maintenance Indicator (optional)

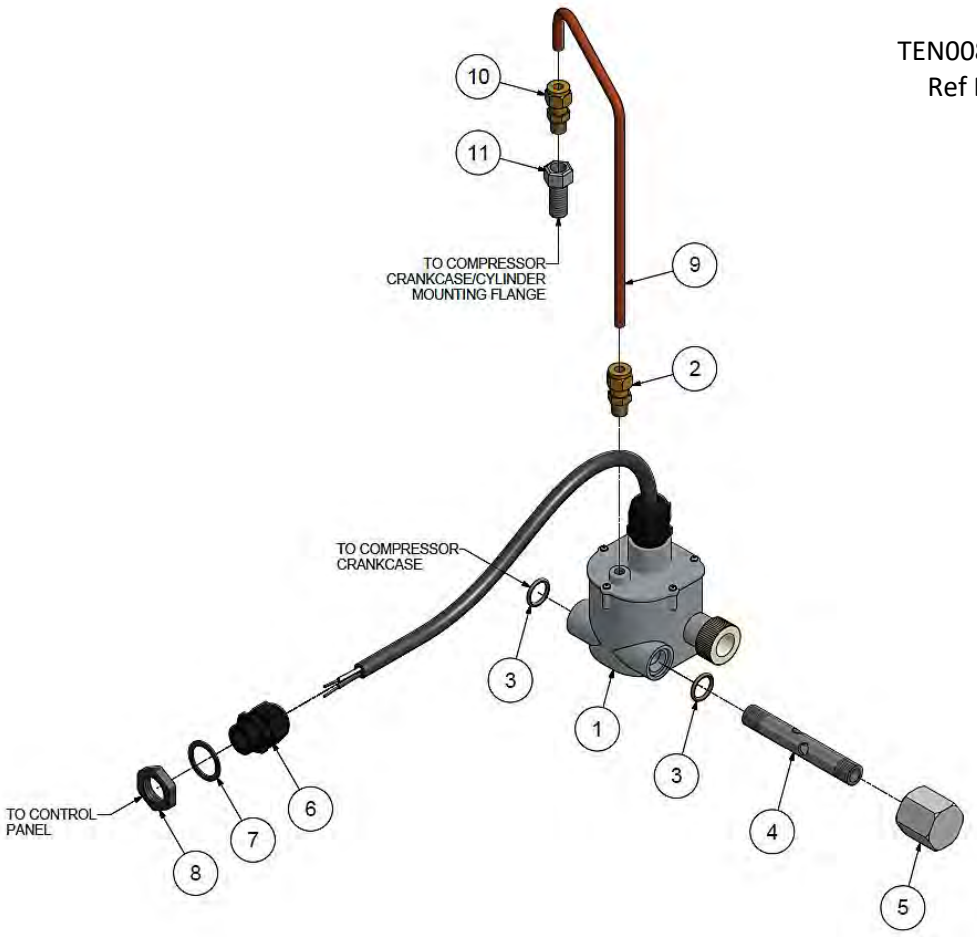


FILTER MAINTENANCE INDICATOR **TEN013353**

Item	Part Number	Description	Qty
1	P11683A	FILTER INDICATOR	1
2	64E44	PIPE BUSHING	1
3	M1003B	PIPE TEE	1
4	M1016B	PIPE NIPPLE	1

Low Oil Shutdown Control (optional)

TEN008800-00
Ref Drawing



LOW OIL SHUTDOWN CONTROL **TEN008800**

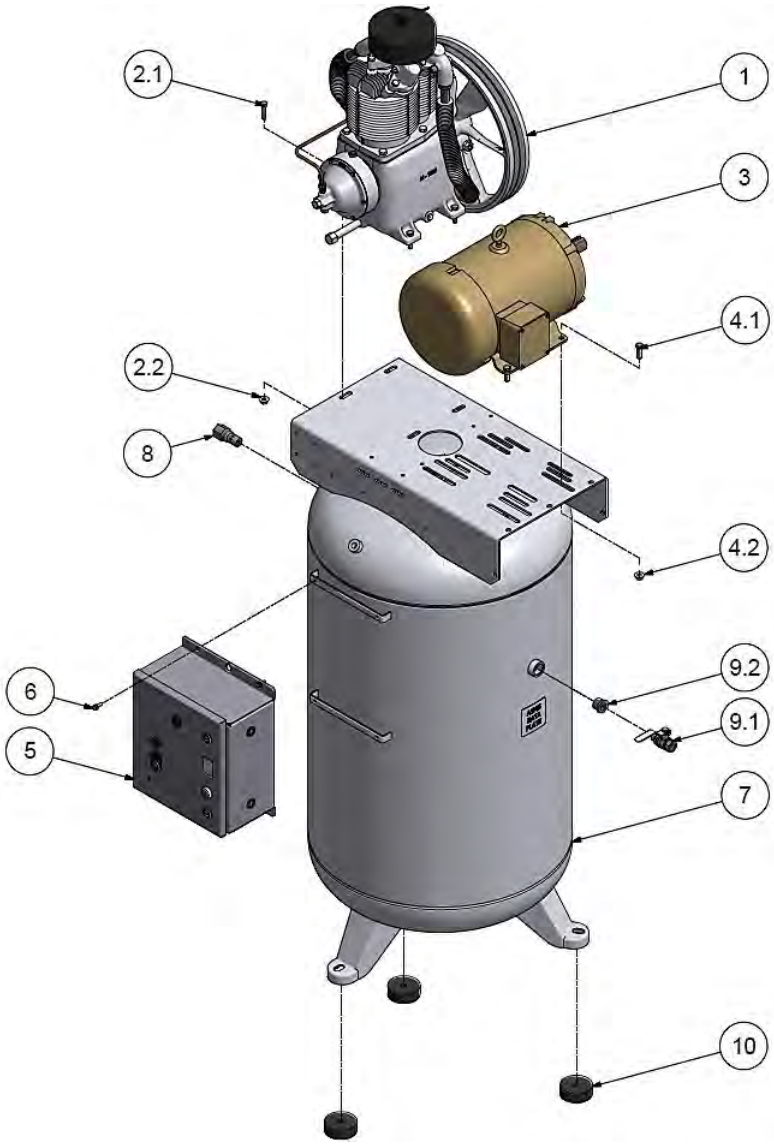
Item	Part Number	Description	Qty
1	TEN008741	SWITCH-LOW OIL SHUTDOWN CONTROL	1
2	M2863	COMPRESSION FITTING, STRAIGHT	1
3	2009222	O-RING	2
4	CC1153304	OIL TUBE	1
5	LO30	RETAINER CAP	1
6	003FE98	CORD GRIP	1
7	TEN008088	SEALING RING	1
8	TEN008089	LOCK NUT	1
9	CC1007635	VENT TUBE	1
10	M2863	COMPRESSION FITTING, STRAIGHT	1
11	P13757A	VENT FITTING	1

REPAIR PARTS

Item	Part Number	Description	Qty
1-11	TEN008808	KIT-LOSC w/CABLE, COMPLETE	1
1-4	TEN008855	KIT-LOSC w/CABLE, REPLACEMENT	1

Section 3 – Electric Packages

Vertical Package

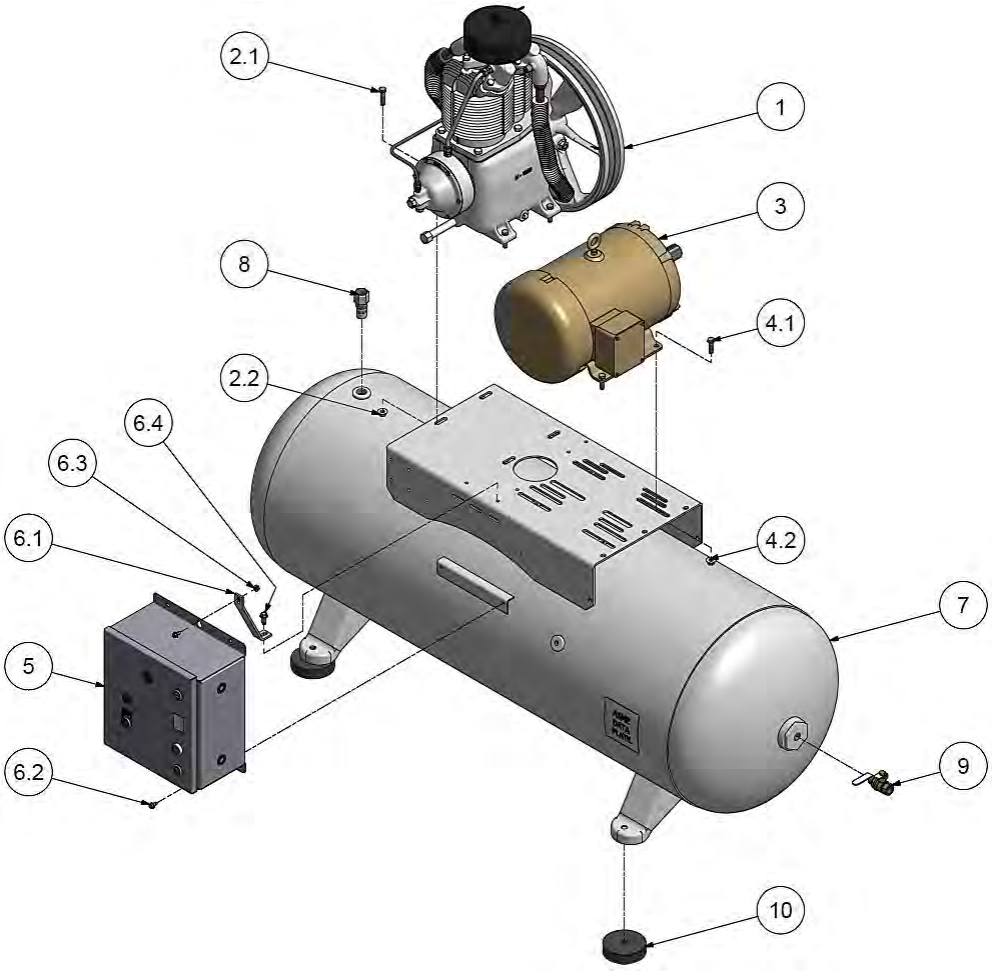


400CAS810-00
Ref Drawing

Vertical Package

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-P01	R15 COMPRESSOR	1
1	R2-30A-P03	R15 COMPRESSOR W/HEAD UNLOADERS	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
MOTOR			
3	SEE MOTOR LISTING ON FOLLOWING PAGE		1
MOTOR MOUNTING			**401CAS4015**
4.1	M3440	SCREW	4
4.2	M3483	NUT	4
SIMPLEX CONTROL PANEL			
5	SEE PART NUMBER LISTING IN CONTROL PANEL MANUAL CQF3475		1
PANEL MOUNTING			
6	M3349	SCREW	4
VERTICAL AIR RECEIVER			
7	TEN007606-CH	RECEIVER, 60 GALLON VERTICAL, 200PSI	1
7	TEN005603-CH	RECEIVER, 80 GALLON VERTICAL, 200PSI	1
7	TEN007002-CH	RECEIVER, 120 GALLON VERTICAL, 200PSI	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			**405CAS4061**
9.1	M3590	BALL VALVE	1
9.2	M483	BUSHING	1
VIBRATION ISOLATORS (OPTIONAL)			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	3

Horizontal Package – Simplex

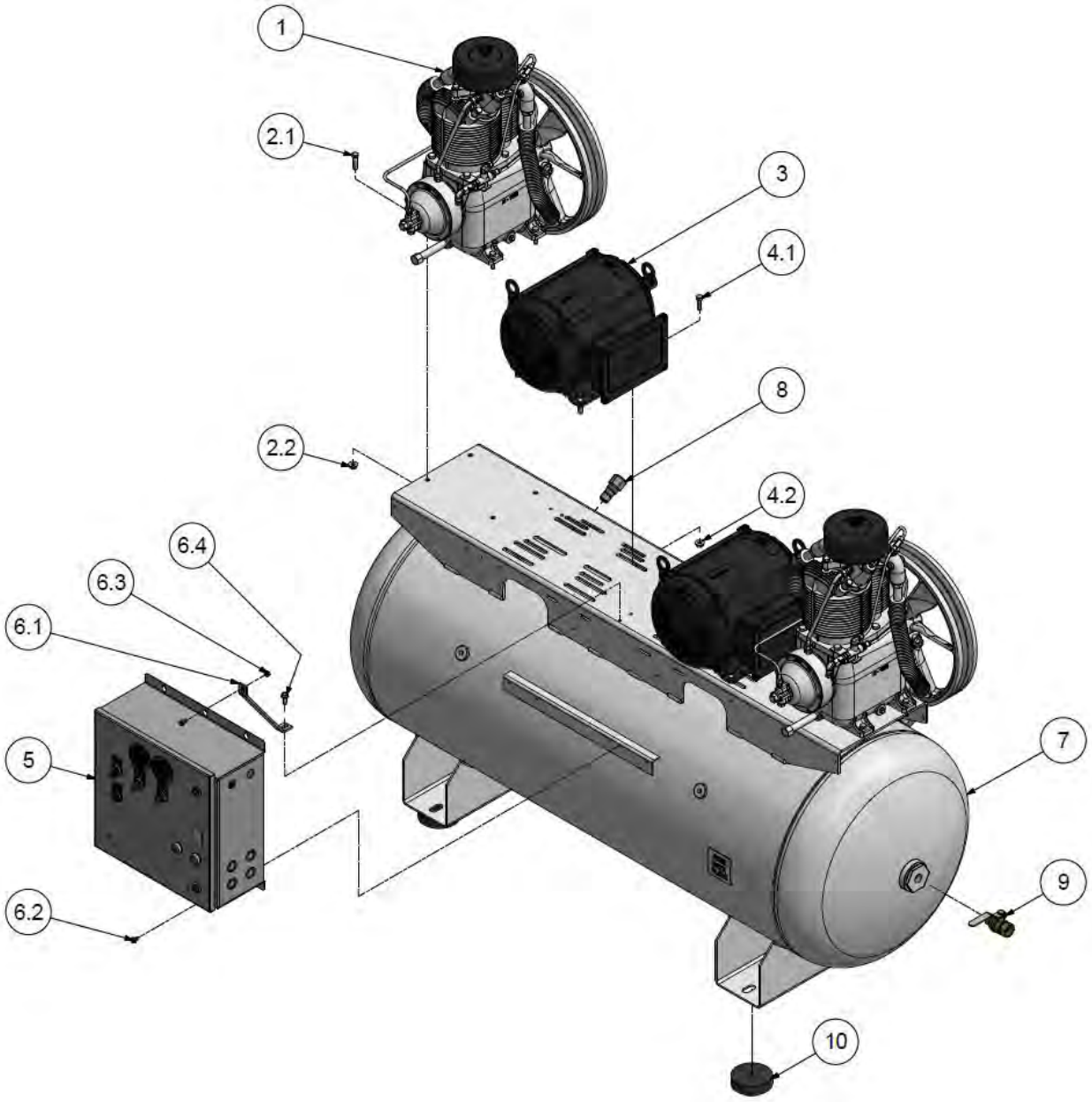


409CAS810-00
Ref Drawing

Horizontal Package – Simplex

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-P01	R15 COMPRESSOR	1
1	R2-30A-P03	R15 COMPRESSOR W/HEAD UNLOADERS	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
MOTOR			
3	SEE MOTOR LISTING ON FOLLOWING PAGE		1
MOTOR MOUNTING			**401CAS4015**
4.1	M3440	SCREW	4
4.2	M3483	NUT	4
SIMPLEX CONTROL PANEL			
5	SEE PART NUMBER LISTING IN CONTROL PANEL MANUAL CQF3475		1
PANEL MOUNTING			
6.1	TEN008116	BRACKET-PANEL,30GL HORIZONTAL	1
6.1	TEN008117	BRACKET-PANEL,60-80GL HORIZONTAL	1
6.1	TEN008118	BRACKET-PANEL,120GL HORIZONTAL	1
6.2	M3349	SCREW	3
6.3	50AW3	NUT	1
6.4	M1454	SCREW	1
HORIZONTAL AIR RECEIVER / BASE PLATE			
7	TEN007508-CH	RECEIVER, 30 GALLON HORIZONTAL, 200PSI	1
7	TEN007285-CH	RECEIVER, 60 GALLON HORIZONTAL, 200PSI	1
7	TEN007325-CH	RECEIVER, 80 GALLON HORIZONTAL, 200PSI	1
7	TEN005638-CH	RECEIVER, 120 GALLON HORIZONTAL, 200PSI	1
7	P09195C	BASE MOUNT PLATE (not shown)	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
8	M953B	BUSHING (FOR 120GL - NOT SHOWN)	1
BALL VALVE			
9	M3590	BALL VALVE	1
VIBRATION ISOLATORS (OPTIONAL)			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Horizontal Package – Duplex

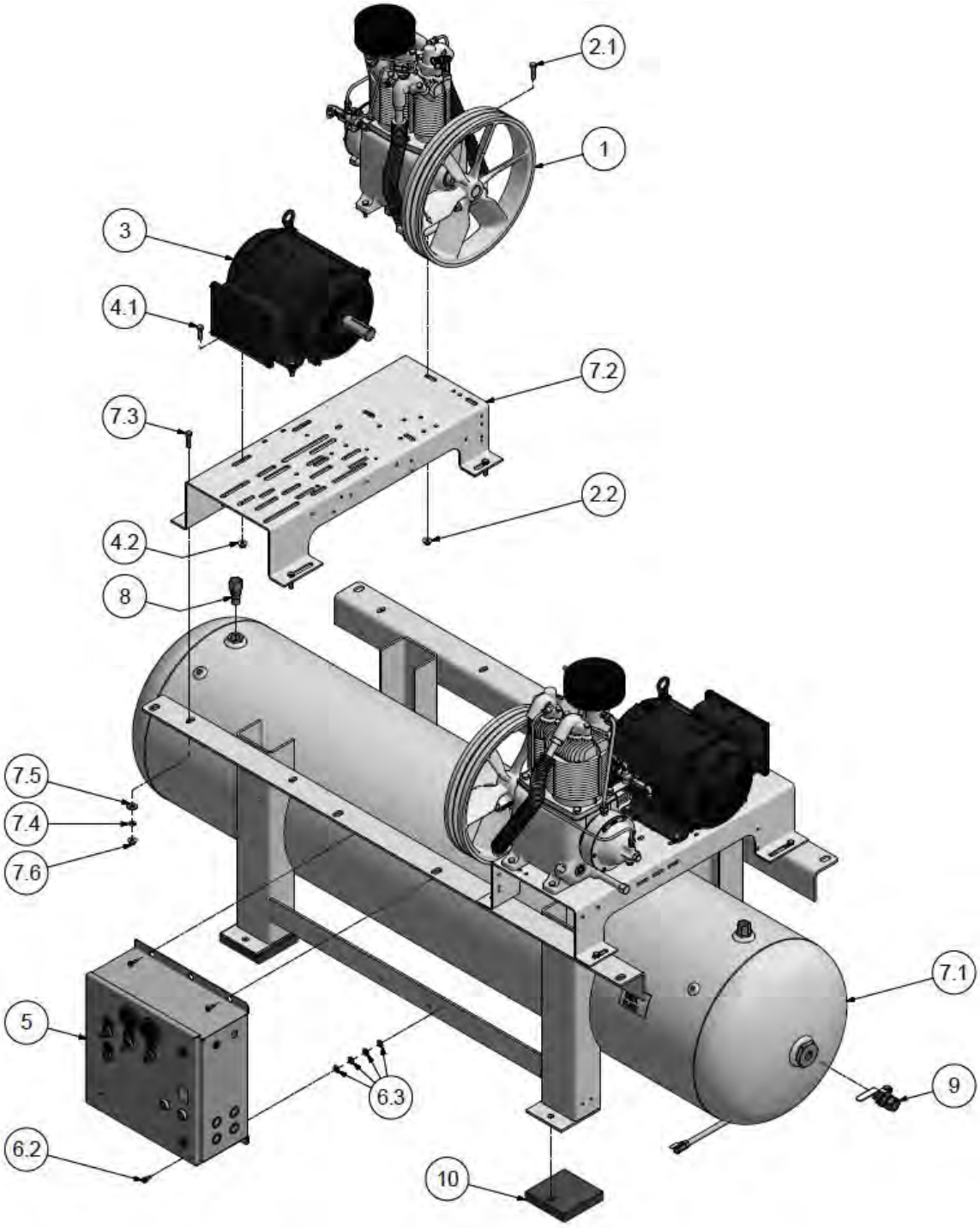


426CAD810-00
Ref Drawing

Horizontal Package – Duplex

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-P01	R15 COMPRESSOR	2
1	R2-30A-P03	R15 COMPRESSOR W/HEAD UNLOADERS	2
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	8
2.2	M3483	NUT	8
MOTOR			
3	SEE MOTOR LISTING ON FOLLOWING PAGE		1
MOTOR MOUNTING			**401CAS4015**
4.1	M3440	SCREW	8
4.2	M3483	NUT	8
DUPLEX CONTROL PANEL			
5	SEE PART NUMBER LISTING IN CONTROL PANEL MANUAL CQF3538		1
PANEL MOUNTING			
6.1	TEN015538	BRACKET-PANEL,80GL HORIZONTAL	1
6.1	TEN015555	BRACKET-PANEL,120GL HORIZONTAL	1
6.1	TEN015558	BRACKET-PANEL,240GL HORIZONTAL	1
6.2	M3349	SCREW	3
6.3	50AW3	NUT	1
6.4	M1454	SCREW	1
HORIZONTAL AIR RECEIVER			
7	TEN008721-CH	RECEIVER, 80 GALLON HORIZONTAL, 200PSI	1
7	TEN008747-CH	RECEIVER, 120 GALLON HORIZONTAL, 200PSI	1
7	TEN008759-CH	RECEIVER, 240 GALLON HORIZONTAL, 200PSI	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	CQM3756	BALL VALVE	1
VIBRATION ISOLATORS (OPTIONAL)			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Horizontal Package – Duplex California Code



427CAD810-00
Ref Drawing

Horizontal Package – Duplex California Code

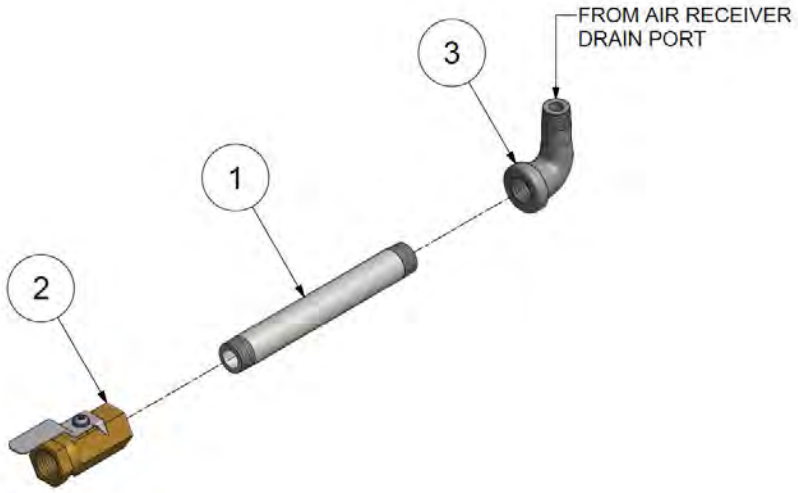
Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-P01	R15 COMPRESSOR	2
1	R2-30A-P03	R15 COMPRESSOR W/HEAD UNLOADERS	2
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	8
2.2	M3483	NUT	8
MOTOR			
3	SEE MOTOR LISTING ON FOLLOWING PAGE		1
MOTOR MOUNTING			**401CAS4015**
4.1	M3440	SCREW	8
4.2	M3483	NUT	8
DUPLEX CONTROL PANEL			
5	SEE PART NUMBER LISTING IN CONTROL PANEL MANUAL CQF3538		1
PANEL MOUNTING			
6.2	M1998	SCREW	4
6.3	M3481	WASHER	8
HORIZONTAL AIR RECEIVER			
7.1	P11278D-CH	RECEIVER, 80 GALLON HORIZONTAL, 200PSI	1
7.1	P08467D-CH	RECEIVER, 120 GALLON HORIZONTAL, 200PSI	1
7.2	P09195C	BASE PLATE	2
7.3	655ED06Z	SCREW	8
7.4	M3052	LOCK WASHER	8
7.5	M3055	FLAT WASHER	8
7.6	M3051	NUT	8
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	CQM3756	BALL VALVE	1
VIBRATION ISOLATORS (OPTIONAL)			
10	300CAD365	ISOLATOR,VIBRATION,5.5” SQUARE	4

Electric Motor List

MOTOR **R2-30A**

Item	Part Number	Description						Qty
3	P04663A	MOTOR	5HP	208V	60HZ	1PH	ODP	1
3	P14632CP	MOTOR	5HP	208V	60HZ	1PH	TEFC	1
3	P04663A	MOTOR	5HP	230V	60HZ	1PH	ODP	1
3	P14632CP	MOTOR	5HP	230V	60HZ	1PH	TEFC	1
3	24CA6644	MOTOR	5HP	208V	60HZ	3PH	ODP	1
3	24CA6646	MOTOR	5HP	208V	60HZ	3PH	TEFC	1
3	24CA6647	MOTOR	5HP	230V-460V	60HZ	3PH	ODP	1
3	24CA6648	MOTOR	5HP	230V-460V	60HZ	3PH	TEFC	1
3	24CA6649	MOTOR	5HP	575V	60HZ	3PH	ODP	1
3	24CA6650	MOTOR	5HP	575V	60HZ	3PH	TEFC	1
3	VP1037934	MOTOR	7.5HP	208V	60HZ	1PH	ODP	1
3	VP1045830	MOTOR	7.5HP	208V	60HZ	1PH	TEFC	1
3	P10397A	MOTOR	7.5HP	230V	60HZ	1PH	ODP	1
3	VP1045830	MOTOR	7.5HP	230V	60HZ	1PH	TEFC	1
3	24CA6652	MOTOR	7.5HP	208V	60HZ	3PH	ODP	1
3	24CA6654	MOTOR	7.5HP	208V	60HZ	3PH	TEFC	1
3	24CA6655	MOTOR	7.5HP	230V-460V	60HZ	3PH	ODP	1
3	24CA6656	MOTOR	7.5HP	230V-460V	60HZ	3PH	TEFC	1
3	24CA6657	MOTOR	7.5HP	575V	60HZ	3PH	ODP	1
3	24CA6658	MOTOR	7.5HP	575V	60HZ	3PH	TEFC	1

Tank Drain – Manual



401CAS810-01
Ref Drawing

MANUAL TANK DRAIN (30GL HORIZONTAL) **404CAS4027**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE, 1.5”	1
2	VP1022988	BALL VALVE	1
3	M980B	PIPE ELBOW	1

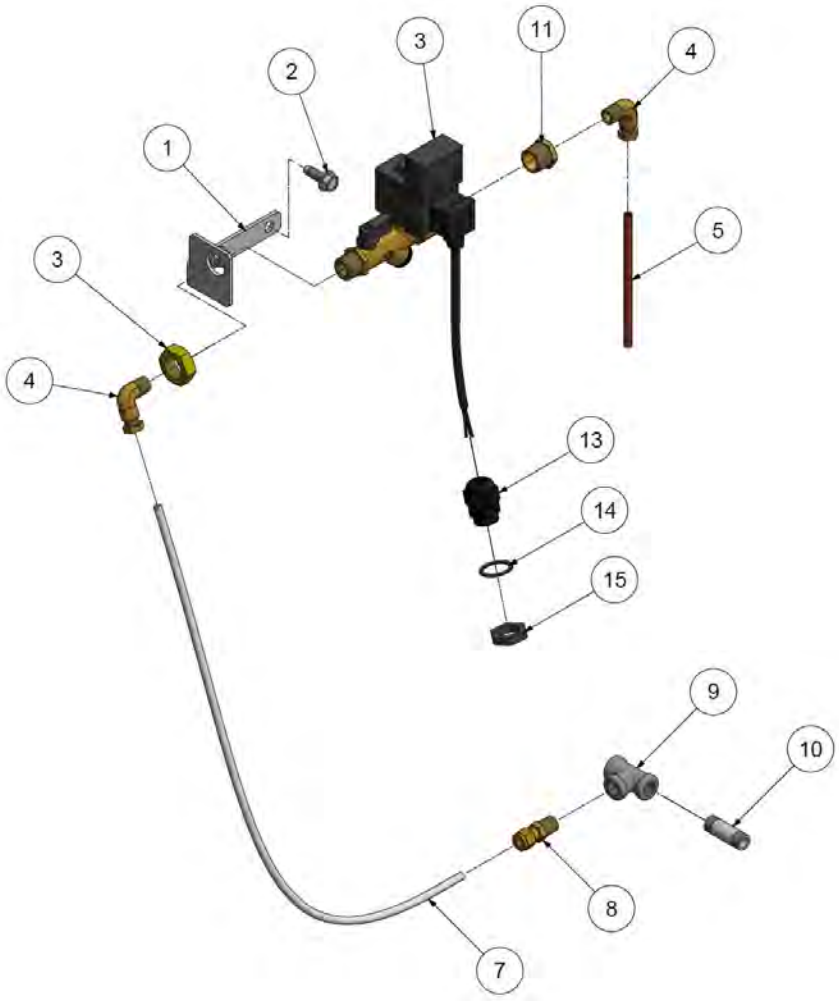
MANUAL TANK DRAIN (60-80GL HORIZONTAL & 60-80-120GL VERTICAL) **CC1044092**

Item	Part Number	Description	Qty
1	M1020B	PIPE NIPPLE, 8”	1
2	VP1022988	BALL VALVE	1
3	M980B	PIPE ELBOW	1

MANUAL TANK DRAIN (120-240GL HORIZONTAL) **401CAS4027**

Item	Part Number	Description	Qty
1	M1020B	PIPE NIPPLE, 8”	1
2	VP1022988	BALL VALVE	1
3	M980B	PIPE ELBOW	1
-	M1318 (NOT SHOWN)	PIPE BUSHING	1

Tank Drain – Electric (optional)

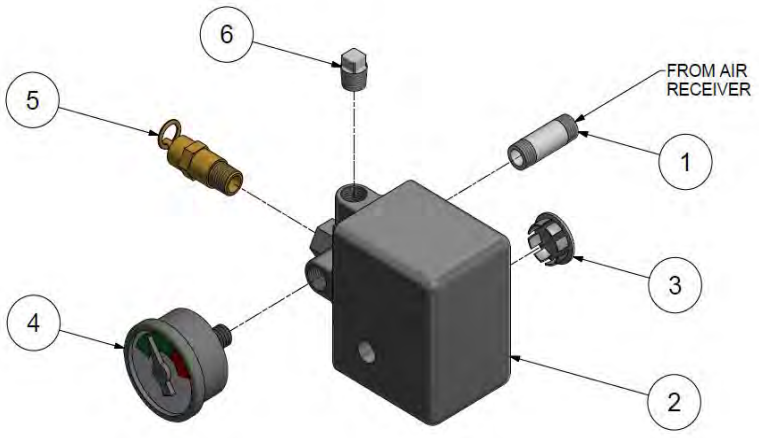


TEN002668-03
Ref Drawing

ELECTRIC TANK DRAIN **TEN002668**

Item	Part Number	Description	Qty
1	CC1049403	BRACKET	1
2	M1454	SCREW	2
3	TEN001368	VALVE,ETD,W/STRAINER	1
4	86A40	COMPRESSION FITTING, ELBOW	2
5	M2471	COPPER TUBING	6 in
7	P08084A	PLASTIC TUBING	5 ft
8	M2862	COMPRESSION FITTING, STRAIGHT	1
9	M1003B	PIPE TEE	1
10	M1016B	PIPE NIPPLE	1
11	M3080	PIPE BUSHING	1
13	003FE98	CORD GRIP	1
14	TEN008088	SEALING RING	1
15	TEN008089	LOCK NUT	1

Control Group – Simplex Start/Stop



402CAS810-01
Ref Drawing
(Nema 1)

401CAS4052

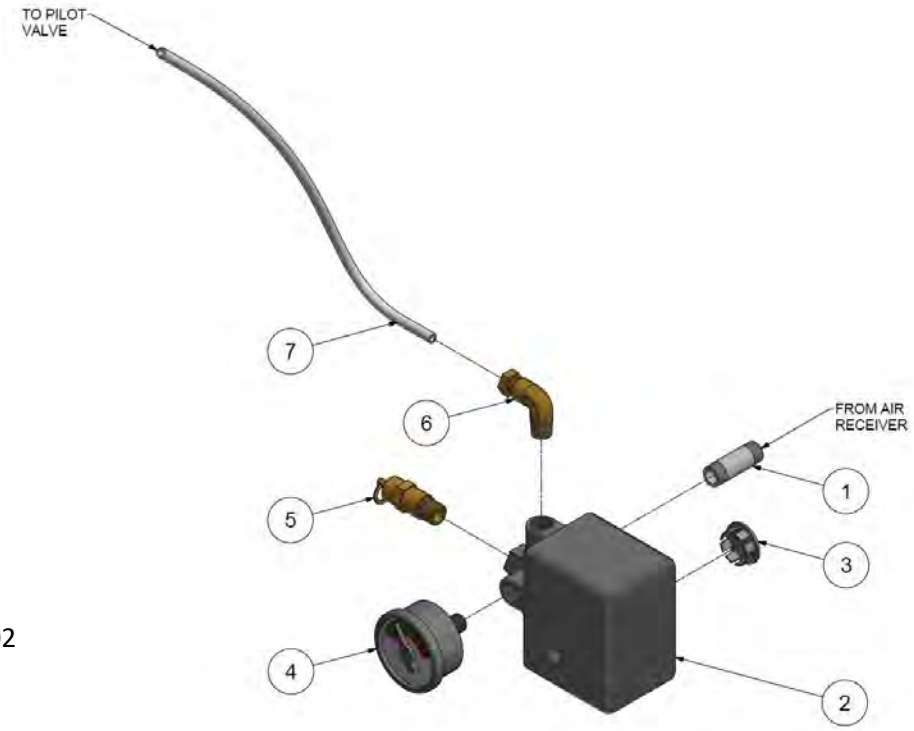
START/STOP CONTROL, NEMA 1 **403CAS4052**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE, 1.5”	1
2	P14205A	SWITCH,PRESSURE,95-125 (125 psi discharge)	1
2	P14202A	SWITCH,PRESSURE,140-175 (175 psi discharge)	1
3	M2352	KNOCKOUT HOLE PLUG	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
6	64AA5	PIPE PLUG	1

START/STOP CONTROL, NEMA 4 **405CAS4052**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE, 1.5”	1
2	P07333A	SWITCH,PRESSURE,N4 (125 or 175 psi discharge)	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
-	64K1 (not shown)	PIPE CROSS	1

Control Group – Simplex Dual Control (optional)



408CAS810-02
Ref Drawing
(Nema 1)

407CAS4052

DUAL CONTROL, NEMA 1 **411CAS4052**

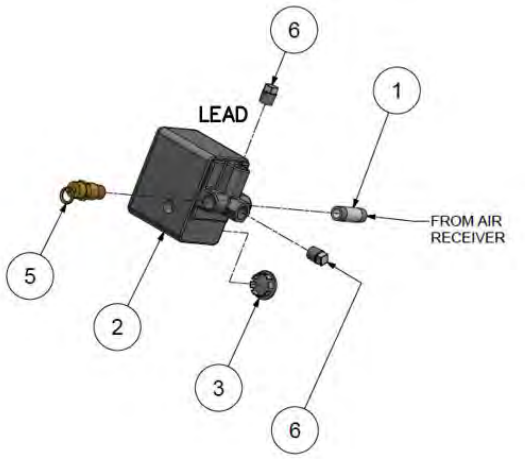
Item	Part Number	Description	Qty
1	M1016B	NIPPLE	1
2	P14205A	SWITCH,PRESSURE,95-125 (125 psi discharge)	1
2	P14202A	SWITCH,PRESSURE,140-175 (175 psi discharge)	1
3	M2352	KNOCKOUT HOLE PLUG	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
6	86A40	COMPRESSION FITTING, ELBOW	1
7	P08084A	PLASTIC TUBING	3.5 ft

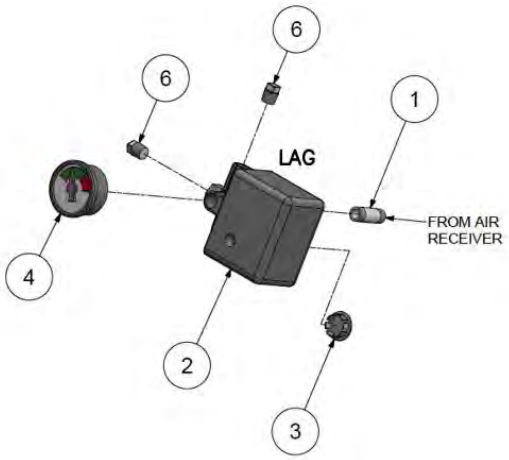
409CAS4052

DUAL CONTROL, NEMA 4 **413CAS4052**

Item	Part Number	Description	Qty
1	M1016B	NIPPLE	2
-	M1003B (not shown)	PIPE TEE	1
-	64K1 (not shown)	PIPE CROSS	1
2	P07333A	SWITCH,PRESSURE,N4 (125 or 175 psi discharge)	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
6	86A40	COMPRESSION FITTING, ELBOW	1
7	P08084A	PLASTIC TUBING	3 ft

Control Group – Duplex Start/Stop





400CAD810-00

Ref Drawing

401CAD4052

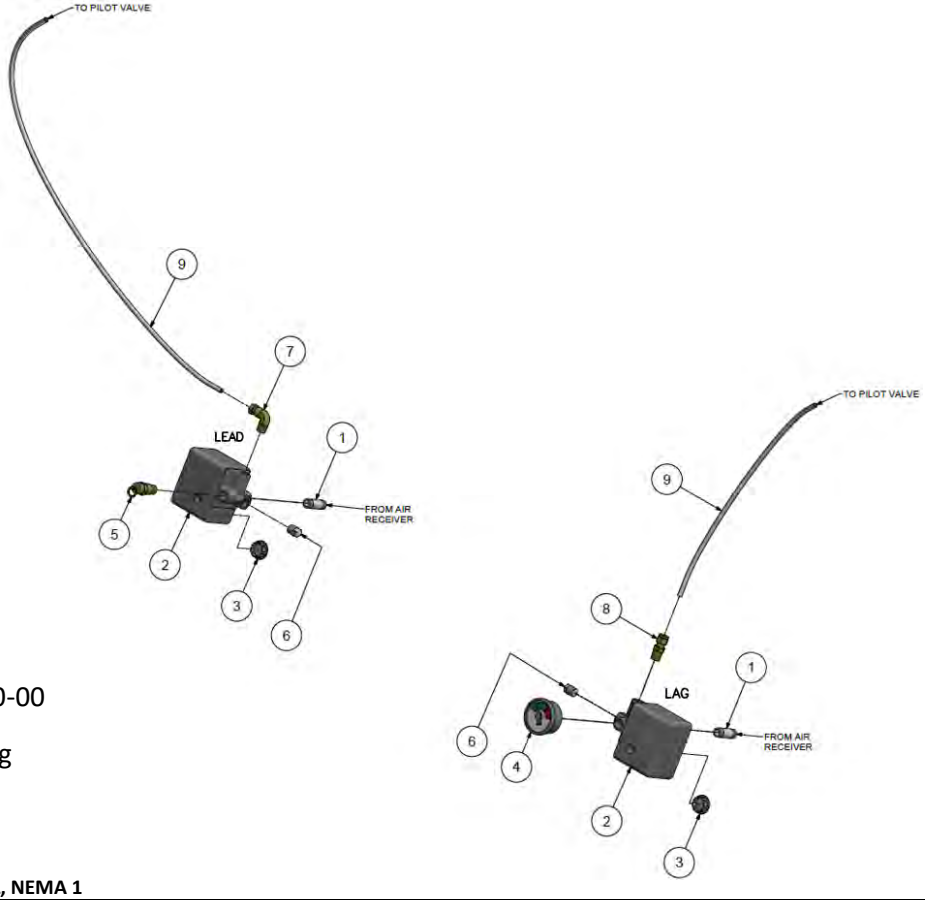
START/STOP CONTROL, NEMA 1 **403CAD4052**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE, 1.5”	2
2	P14205A	LEAD PRESSURE SWITCH, 95-125 (125 psi discharge)	1
2	P14205A	LAG PRESSURE SWITCH, 85-115 (125 psi discharge)	1
2	P14202A	LEAD PRESSURE SWITCH, 140-175 (175 psi discharge)	1
2	CC1055247	LAG PRESSURE SWITCH, 130-165 (175 psi discharge)	1
3	M2352	KNOCKOUT HOLE PLUG	2
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
6	64AA5	PIPE PLUG	4

START/STOP CONTROL, NEMA 4 **405CAD4052**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE, 1.5”	2
2	P07333A	LEAD PRESSURE SWITCH, 95-125 (125 psi discharge)	1
2	P07333A	LAG PRESSURE SWITCH, 85-115 (125 psi discharge)	1
2	P07333A	LEAD PRESSURE SWITCH, 140-175 (175 psi discharge)	1
2	P07333A	LAG PRESSURE SWITCH, 130-165 (175 psi discharge)	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
-	M1003B (not shown)	PIPE TEE	2

Control Group – Duplex Dual Control (optional)



401CAD810-00

Ref Drawing

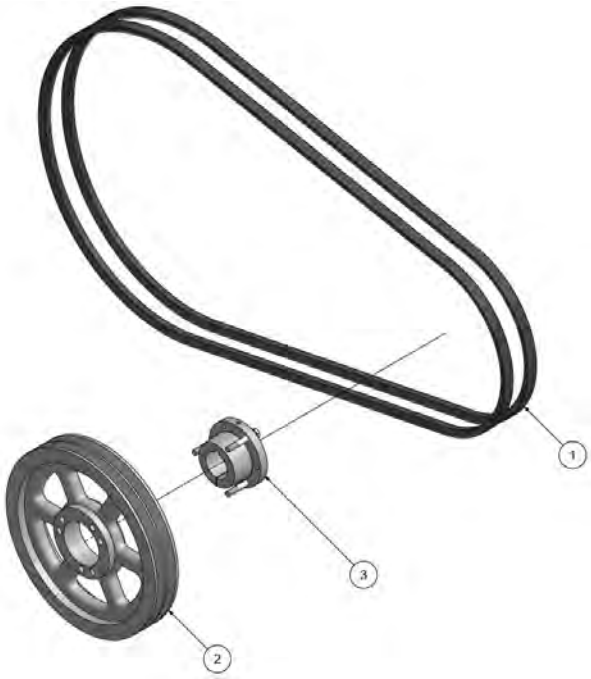
DUAL CONTROL, NEMA 1 **407CAD4052 411CAD4052**

Item	Part Number	Description	Qty
1	M1016B	NIPPLE	2
2	P14205A	LEAD PRESSURE SWITCH, 95-125 (125 psi discharge)	1
2	P14205A	LAG PRESSURE SWITCH, 85-115 (125 psi discharge)	1
2	P14202A	LEAD PRESSURE SWITCH, 140-175 (175 psi discharge)	1
2	CC1055247	LAG PRESSURE SWITCH, 130-165 (175 psi discharge)	1
3	M2352	KNOCKOUT HOLE PLUG 1/2	2
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
6	64AA5	PIPE PLUG	2
7	86A40	COMPRESSION FITTING, ELBOW	1
8	M2862	COMPRESSION FITTING, STRAIGHT	1
9	P08084A	TUBING,PLASTIC,1/4OD	4 ft

DUAL CONTROL, NEMA 4 **409CAD4052 413CAD4052**

Item	Part Number	Description	Qty
1	M1016B	NIPPLE	2
-	M1003B (not shown)	PIPE TEE	2
-	64K1 (not shown)	PIPE CROSS	2
2	P07333A	LEAD PRESSURE SWITCH, 95-125 (125 psi discharge)	1
2	P07333A	LAG PRESSURE SWITCH, 85-115 (125 psi discharge)	1
2	P07333A	LEAD PRESSURE SWITCH, 140-175 (175 psi discharge)	1
2	P07333A	LAG PRESSURE SWITCH, 130-165 (175 psi discharge)	1
4	M519C	PRESSURE GAUGE	1
5	M2843	PRESSURE RELIEF VALVE, 200#	1
7	86A40	COMPRESSION FITTING, ELBOW	1
8	M2862	COMPRESSION FITTING, STRAIGHT	1
9	P08084A	PLASTIC TUBING	4 ft

Power Transmission



414CAS810-00
Ref Drawing

TRANSMISSION GROUP (R15,125PSI,5HP) **Z3540**

Item	Part Number	Description	Qty
1	B65	VEE BELT	2
2	P11870C	PULLEY,7.35OD,1-1/8 BORE,2VA/B	1

TRANSMISSION GROUP (R15,175PSI,5HP) **Z2439**

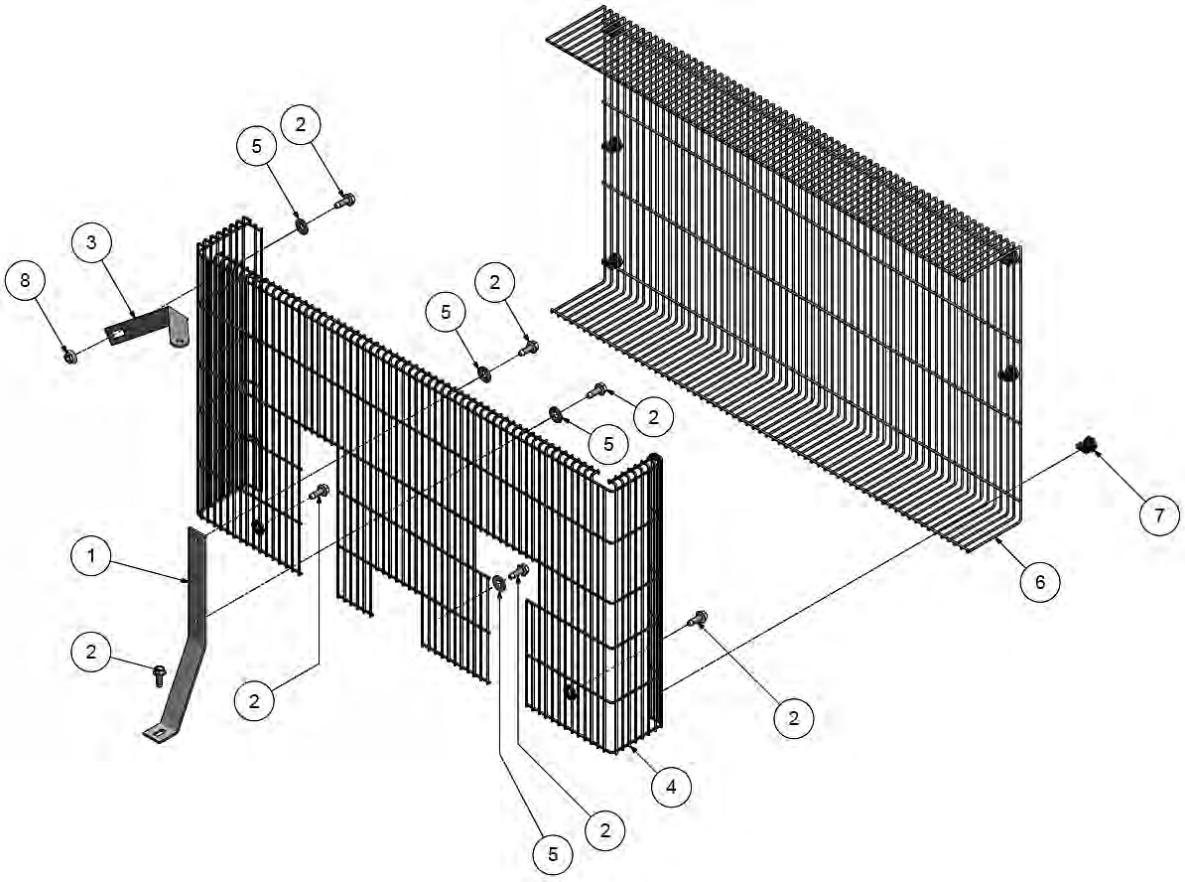
Item	Part Number	Description	Qty
1	B65	VEE BELT	2
2	P11703A	PULLEY,6.95OD,SDS,2VA/B	1
3	P09358A	BUSHING,PULLEY,SDS,1-1/8 BORE	1

TRANSMISSION GROUP (R15,125/175PSI,7.5HP) **Z6736**

Item	Part Number	Description	Qty
1	B68	VEE BELT	2
2	P13912A	PULLEY,9.35ODXSK,2GR,A/B	1
3	P05607A	BUSHING,PULLEY,SK,1-3/8	1

Belt Guard – Standard

Simplex; Duplex Left Side



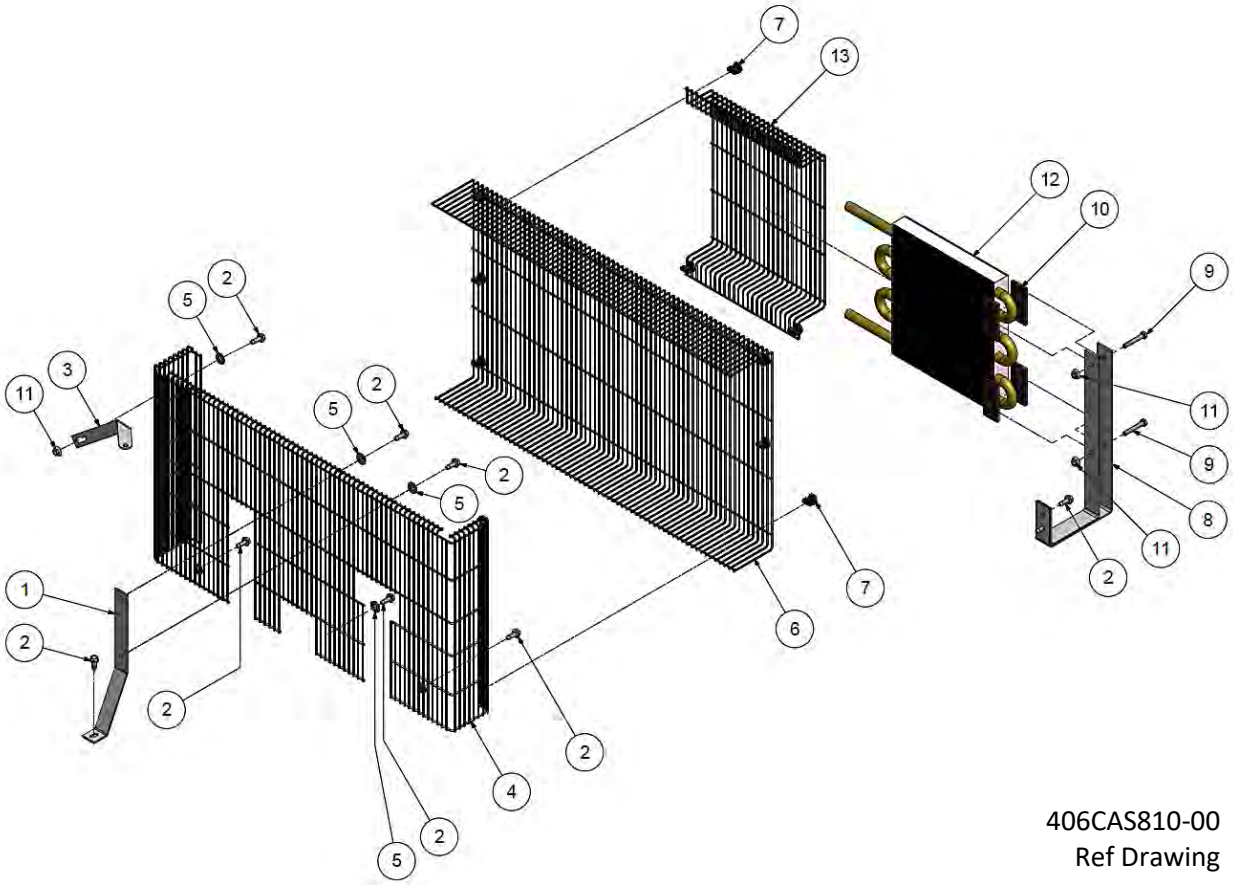
404CAS810-00
Ref Drawing

BELTGUARD – STANDARD **CC1060459**

Item	Part Number	Description	Qty
1	P09985B	BRACKET	1
2	M1454	SCREW	6
3	P14085B	BRACKET	1
4	CC1055727	BELTGUARD BACK	1
5	M3056	WASHER	6
6	CC1055728	BELTGUARD FRONT	1
7	P10005A	CLIP	6
8	M3485	NUT	1

Belt Guard – with Aftercooler (optional)

Simplex; Duplex Left Side



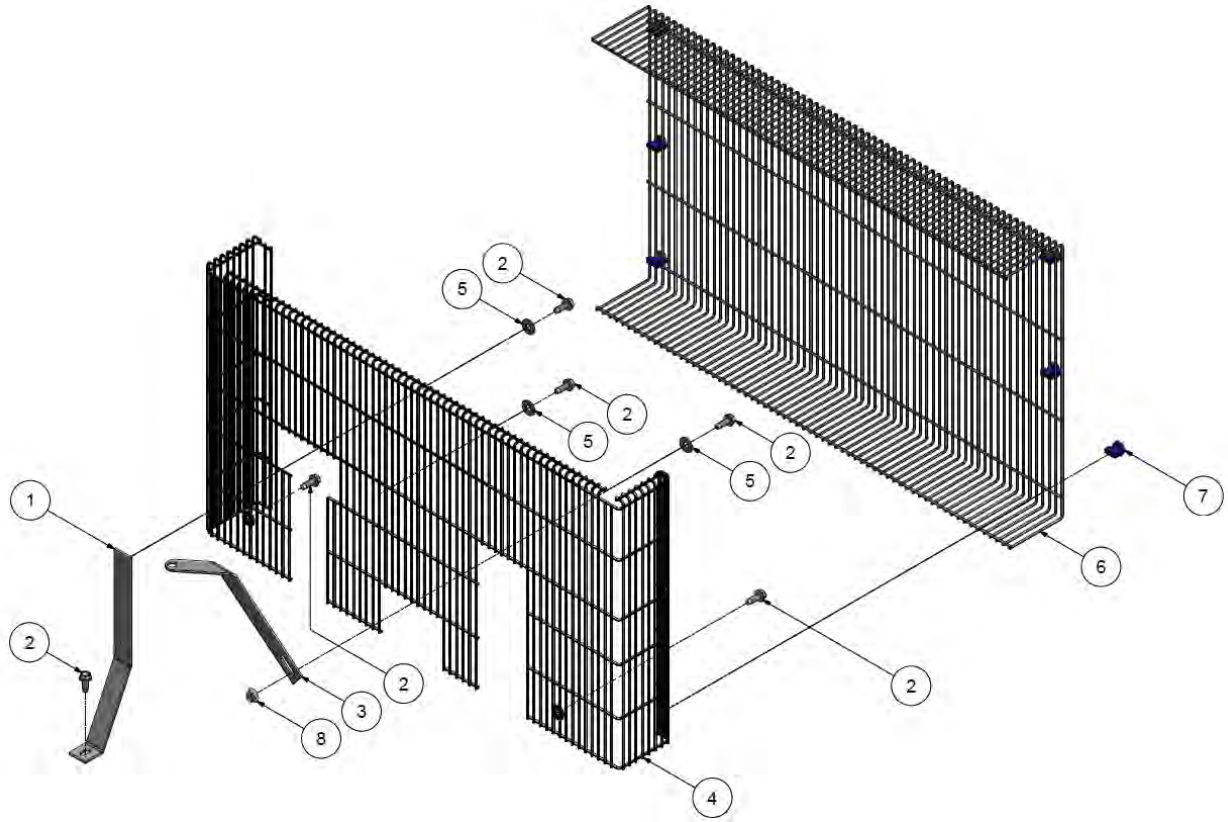
406CAS810-00
Ref Drawing

BELTGUARD - WITH AFTERCOOLER **CC1060458**

Item	Part Number	Description	Qty
1	P09985B	BRACKET	1
2	M1454	SCREW	8
3	P14085B	BRACKET	1
4	CC1055727	BELTGUARD BACK	1
5	M3056	WASHER	3
6	CC1055728	BELTGUARD FRONT	1
7	P10005A	CLIP	10
8	CC1055729	BRACKET	1
9	M2627	SCREW	2
10	M1367	ISOLATOR,VIBRATION	4
11	M3485	NUT	3
12	P14477B	AFTERCOOLER	1
13	P14072C	AFTERCOOLER GUARD	1

Belt Guard – Standard

Duplex Right Side



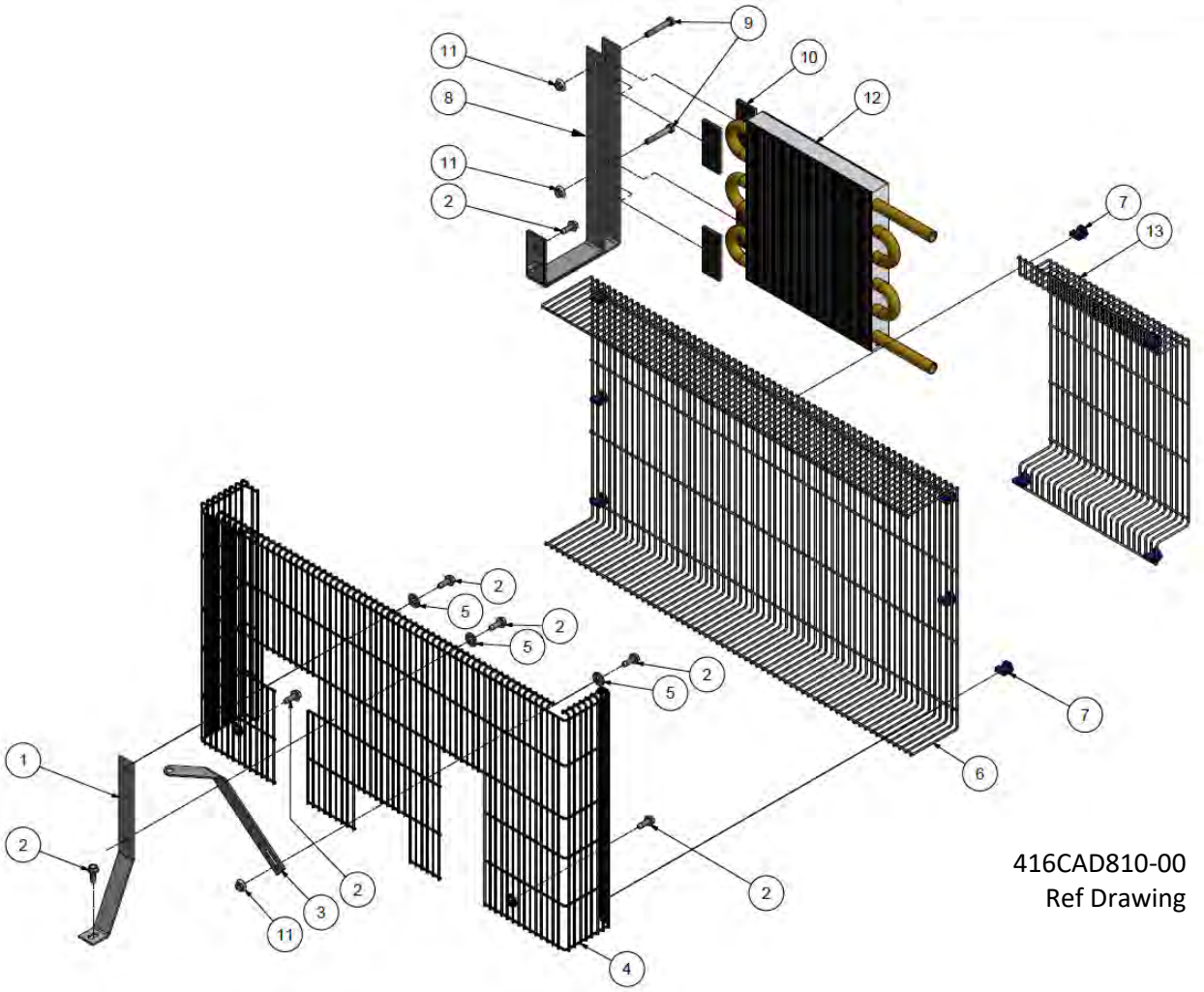
415CAD810-00
Ref Drawing

BELTGUARD – STANDARD **CC1060675**

Item	Part Number	Description	Qty
1	P09985B	BRACKET	1
2	M1454	SCREW	6
3	CC1060114	BRACKET	1
4	CC1057890	BELTGUARD BACK	1
5	M3056	WASHER	6
6	CC1055728	BELTGUARD FRONT	1
7	P10005A	CLIP	6
8	M3485	NUT	1

Belt Guard – with Aftercooler (optional)

Duplex Right Side

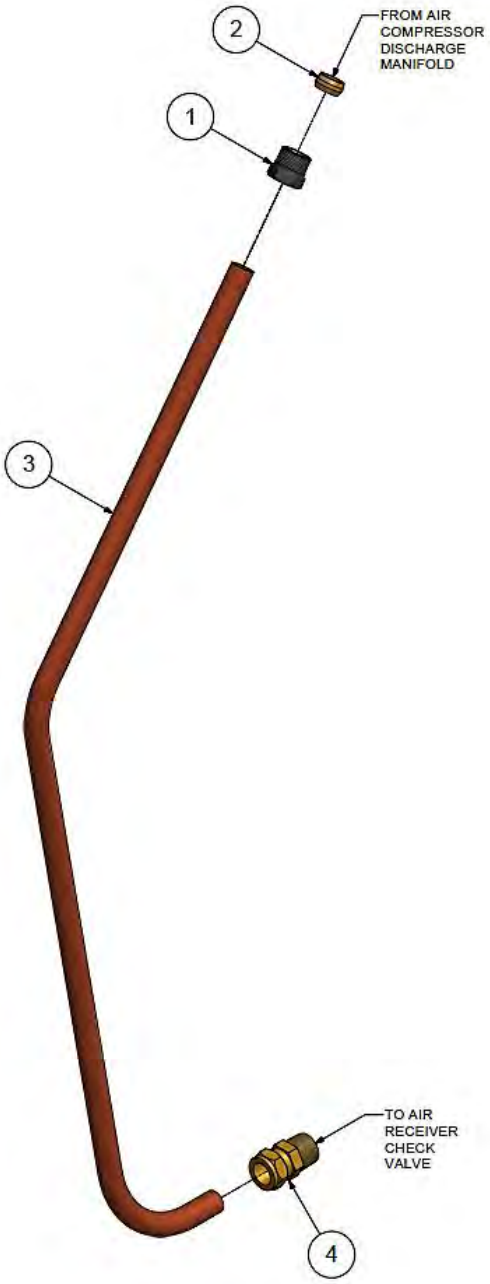


416CAD810-00
Ref Drawing

BELTGUARD - WITH AFTERCOOLER **CC1060674**

Item	Part Number	Description	Qty
1	P09985B	BRACKET	1
2	M1454	SCREW	8
3	CC1060114	BRACKET	1
4	CC1057890	BELTGUARD BACK	1
5	M3056	WASHER	6
6	CC1055728	BELTGUARD FRONT	1
7	P10005A	CLIP	10
8	CC1055729	BRACKET	1
9	M2627	SCREW	2
10	M1367	ISOLATOR,VIBRATION	4
11	M3485	NUT	3
12	P14477B	AFTERCOOLER	1
13	P14072C	AFTERCOOLER GUARD	1

Discharge Piping – Vertical, Standard



405CAS810-00
Ref Drawing

Discharge Piping – Vertical, Standard

DISCHARGE PIPING - 60GL VERTICAL, STANDARD **417CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010239	TUBE-DISCHARGE	1
4	M2867	COMPRESSION FITTING, STRAIGHT	1

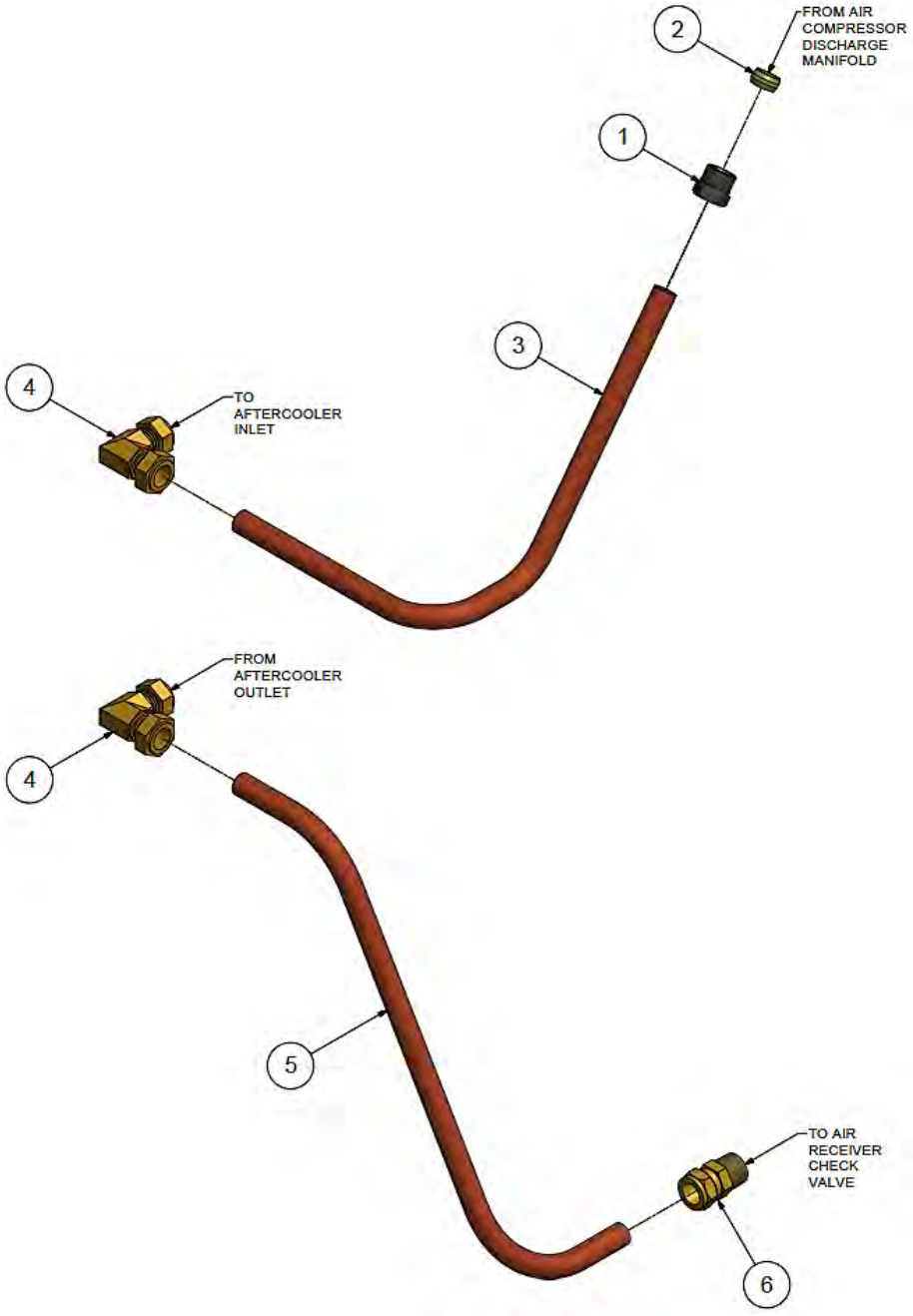
DISCHARGE PIPING - 80GL VERTICAL, STANDARD **407CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010240	TUBE-DISCHARGE	1
4	M2867	COMPRESSION FITTING, STRAIGHT	1

DISCHARGE PIPING - 120GL VERTICAL, STANDARD **419CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010241	TUBE-DISCHARGE	1
4	M2350	COMPRESSION FITTING, ELBOW	1

Discharge Piping – Vertical, with Aftercooler (optional)



407CAS810-00
Ref Drawing

Discharge Piping – Vertical, with Aftercooler (optional)

DISCHARGE PIPING - 60GL VERTICAL, WITH AFTERCOOLER **418CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
5	TEN010229	TUBE-DISCHARGE, LOWER	1
6	M2867	COMPRESSION FITTING, STRAIGHT	1

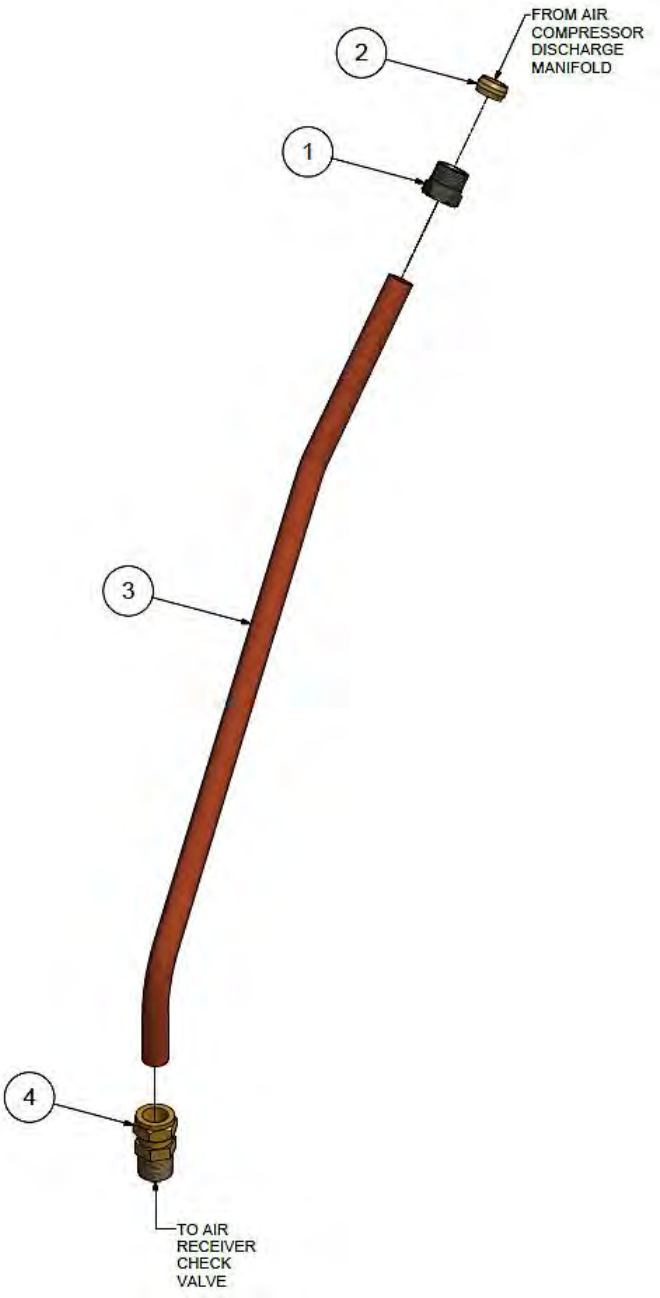
DISCHARGE PIPING - 80GL VERTICAL, WITH AFTERCOOLER **401CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
5	TEN009098	TUBE-DISCHARGE, LOWER	1
6	M2867	COMPRESSION FITTING, STRAIGHT	1

DISCHARGE PIPING - 120GL VERTICAL, WITH AFTERCOOLER **420CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
5	TEN010230	TUBE-DISCHARGE, LOWER	1
6	M2350	COMPRESSION FITTING, ELBOW	1

Discharge Piping – Simplex Horizontal, Standard



410CAS810-00
Ref Drawing

Discharge Piping – Simplex Horizontal, Standard

DISCHARGE PIPING - BASE MOUNT, STANDARD **423CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1

DISCHARGE PIPING - 30GL HORIZONTAL, STANDARD **413CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010235	TUBE-DISCHARGE	1
4	M2350	COMPRESSION FITTING, ELBOW	1

DISCHARGE PIPING - 60GL HORIZONTAL, STANDARD **415CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010236	TUBE-DISCHARGE	1
4	M2867	COMPRESSION FITTING, STRAIGHT	1

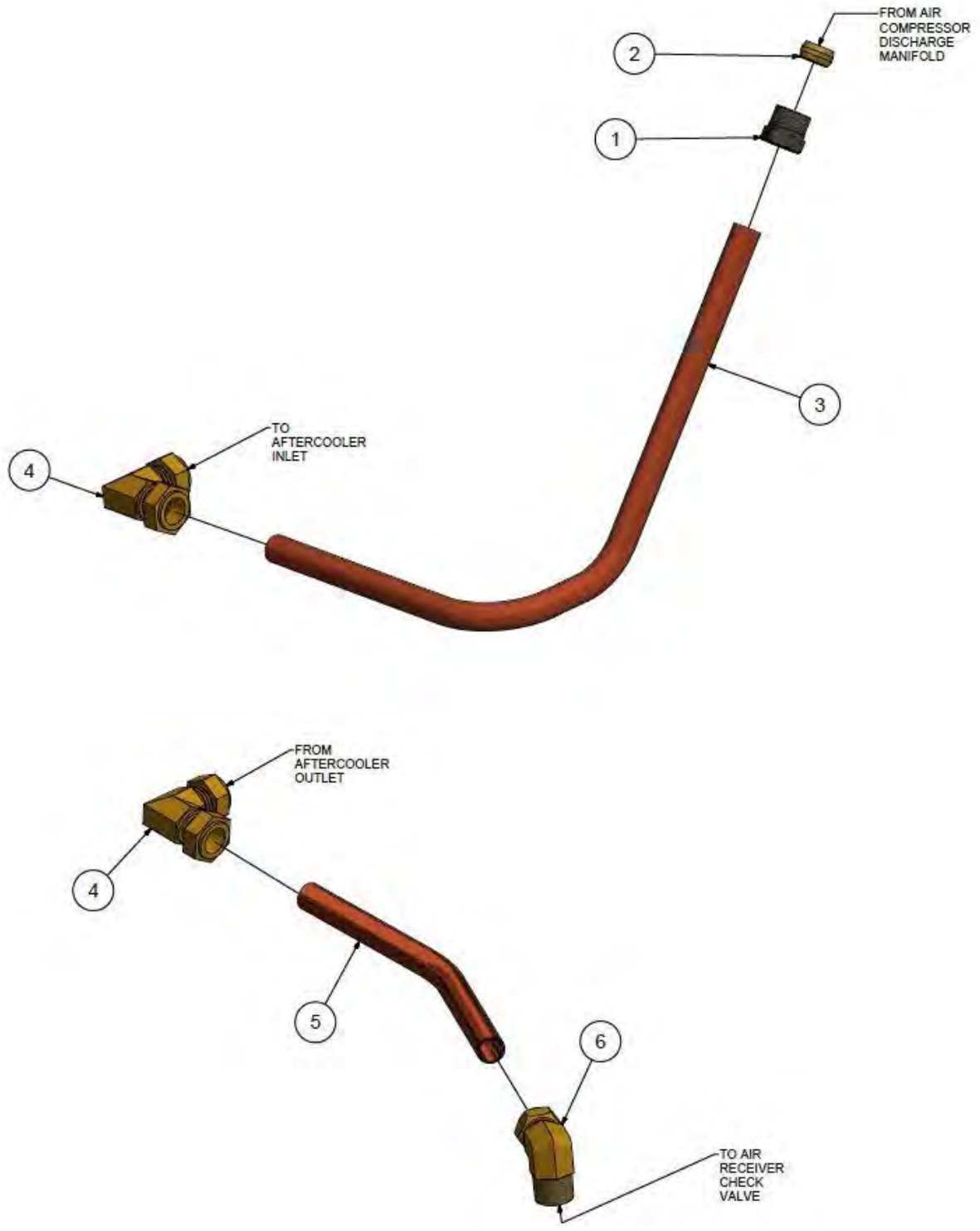
DISCHARGE PIPING - 80GL HORIZONTAL, STANDARD **421CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010244	TUBE-DISCHARGE	1
4	M2867	COMPRESSION FITTING, STRAIGHT	1

DISCHARGE PIPING - 120GL HORIZONTAL, STANDARD **422CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	TEN010244	TUBE-DISCHARGE	1
4	M2867	COMPRESSION FITTING, STRAIGHT	1

Discharge Piping – Simplex Horizontal, with Aftercooler (optional)



411CAS810-01
Ref Drawing

Discharge Piping – Simplex Horizontal, with Aftercooler (optional)

DISCHARGE PIPING - BASE MOUNT, WITH AFTERCOOLER **424CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
-	M3424 (NOT SHOWN)	NUT	2
-	M3471 (NOT SHOWN)	SCREW	2
-	CC1032600 (NOT SHOWN)	COUPLING, BRACKETED	1

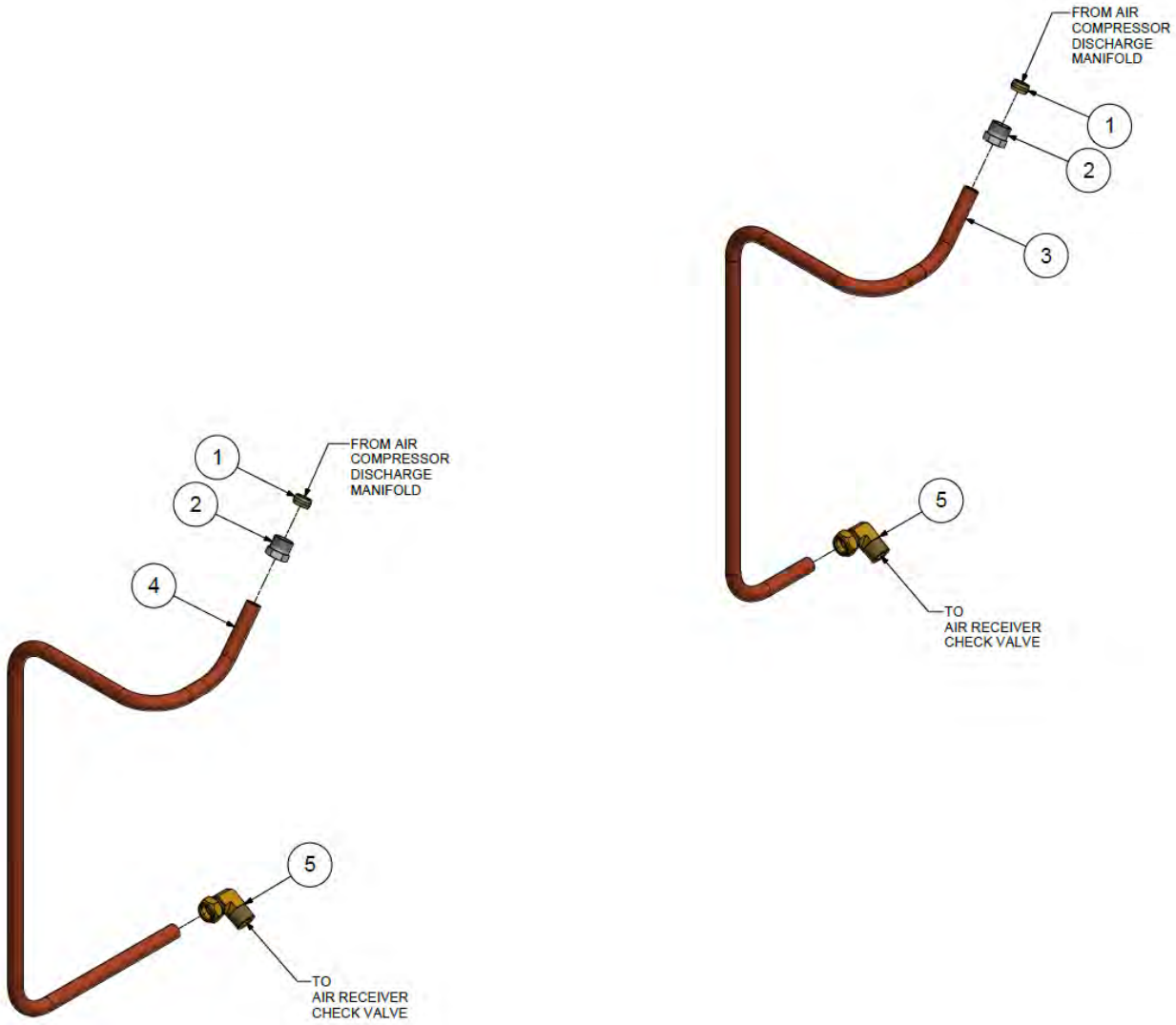
DISCHARGE PIPING - 30GL HORIZONTAL, WITH AFTERCOOLER **414CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
5	TEN010160	TUBE-DISCHARGE, LOWER	1
6	M2867	COMPRESSION FITTING, STRAIGHT	1

DISCHARGE PIPING - 60-80-120GL HORIZONTAL, WITH AFTERCOOLER **416CAS4022**

Item	Part Number	Description	Qty
1	SE541	COMPRESSION NUT	1
2	SE542	COMPRESSION FERRULE	1
3	P10143B	TUBE-DISCHARGE, UPPER	1
4	M2288	COMPRESSION FITTING, ELBOW	2
5	TEN010171	TUBE-DISCHARGE, LOWER	1
6	M2350	COMPRESSION FITTING, ELBOW	1

Discharge Piping – Duplex, Standard



403CAD810-00
Ref Drawing

Discharge Piping – Duplex, Standard

DISCHARGE PIPING - 80GL HORIZONTAL, STANDARD **405CAD4022**

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	TEN018228	TUBE-DISCHARGE, RIGHT	1
4	TEN018229	TUBE-DISCHARGE, LEFT	1
5	M2350	COMPRESSION FITTING, ELBOW	2

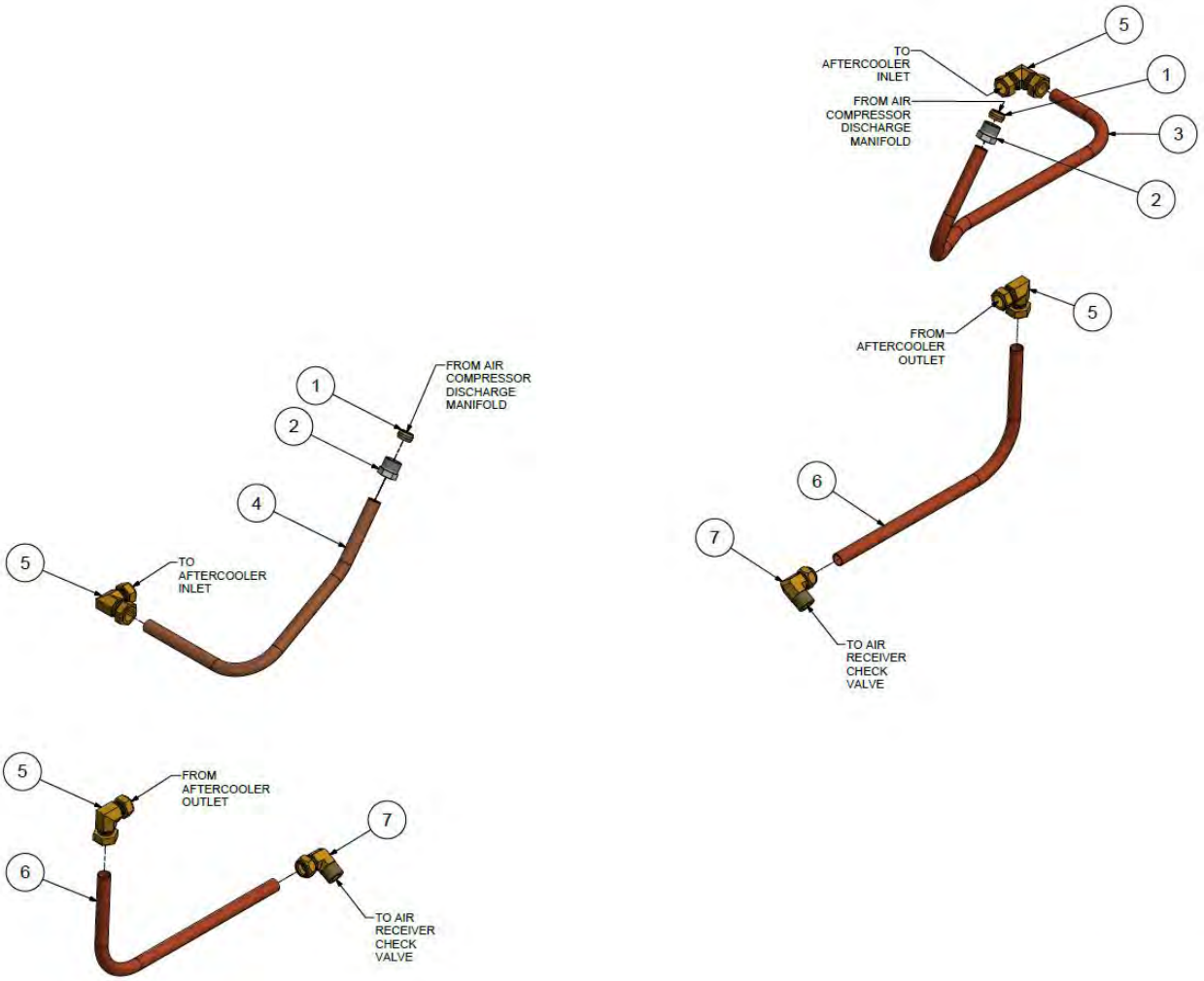
DISCHARGE PIPING - 120GL HORIZONTAL, STANDARD **407CAD4022**

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	TEN018192	TUBE-DISCHARGE, RIGHT	1
4	TEN018193	TUBE-DISCHARGE, LEFT	1
5	M2350	COMPRESSION FITTING, ELBOW	2

DISCHARGE PIPING - 240GL HORIZONTAL, STANDARD **409CAD4022**

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	TEN018342	TUBE-DISCHARGE, RIGHT	1
4	TEN018343	TUBE-DISCHARGE, LEFT	1
5	M2350	COMPRESSION FITTING, ELBOW	2

Discharge Piping – Duplex, with Aftercooler (optional)



404CAD810-00
Ref Drawing

Discharge Piping – Duplex, with Aftercooler (optional)

DISCHARGE PIPING - 80GL HORIZONTAL, WITH AFTERCOOLER 406CAD4022

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	CC1069229	DISCHARGE TUBE, UPPER RIGHT	1
4	CC1069064	DISCHARGE TUBE, UPPER LEFT	1
5	M2288	COMPRESSION FITTING, ELBOW	4
6	TEN017954	DISCHARGE TUBE, LOWER	2
7	M2350	COMPRESSION FITTING, ELBOW	2

DISCHARGE PIPING - 120GL HORIZONTAL, WITH AFTERCOOLER 408CAD4022

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	CC1069229	DISCHARGE TUBE, UPPER RIGHT	1
4	CC1069064	DISCHARGE TUBE, UPPER LEFT	1
5	M2288	COMPRESSION FITTING, ELBOW	4
6	TEN017954	DISCHARGE TUBE, LOWER	2
7	M2350	COMPRESSION FITTING, ELBOW	2

DISCHARGE PIPING - 240GL HORIZONTAL, WITH AFTERCOOLER 410CAD4022

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	CC1069229	DISCHARGE TUBE, UPPER RIGHT	1
4	CC1069064	DISCHARGE TUBE, UPPER LEFT	1
5	M2288	COMPRESSION FITTING, ELBOW	4
6	TEN018373	DISCHARGE TUBE, LOWER	2
7	M2350	COMPRESSION FITTING, ELBOW	2

Discharge Piping – Duplex California Code, Standard

DISCHARGE ASSEMBLY IS THE SAME FOR BOTH SIDES

411CAD810-00
Ref Drawing

Discharge Piping – Duplex California Code, Standard

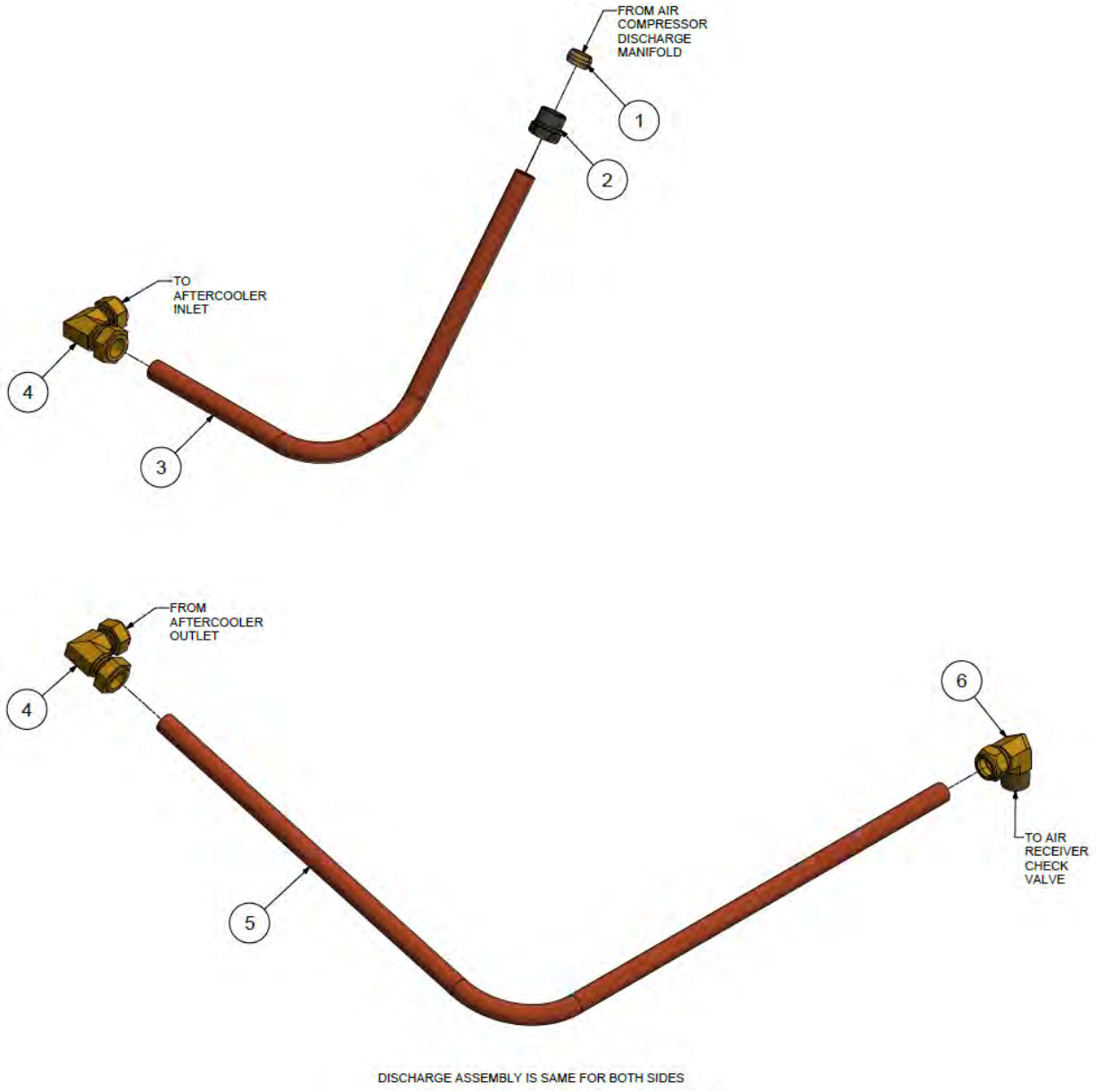
DISCHARGE PIPING - 80GL CALIFORNIA CODE, STANDARD **415CAD4022**

Item	Part Number	Description	Qty
1	M2350	COMPRESSION FITTING, ELBOW	2
2	M2474	3/4” COPPER TUBING	5 FT
3	SE542	COMPRESSION NUT	2
4	SE541	COMPRESSION FERRULE	2

DISCHARGE PIPING - 120GL CALIFORNIA CODE, STANDARD **417CAD4022**

Item	Part Number	Description	Qty
1	M2350	COMPRESSION FITTING, ELBOW	2
2	M2474	3/4” COPPER TUBING	6 FT
3	SE542	COMPRESSION NUT	2
4	SE541	COMPRESSION FERRULE	2

Discharge Piping – Duplex California Code, with Aftercooler (optional)



412CAD810-00
Ref Drawing

Discharge Piping – Duplex California Code, with Aftercooler (optional)

DISCHARGE PIPING - 80GL CALIFORNIA CODE, WITH AFTERCOOLER 416CAD4022

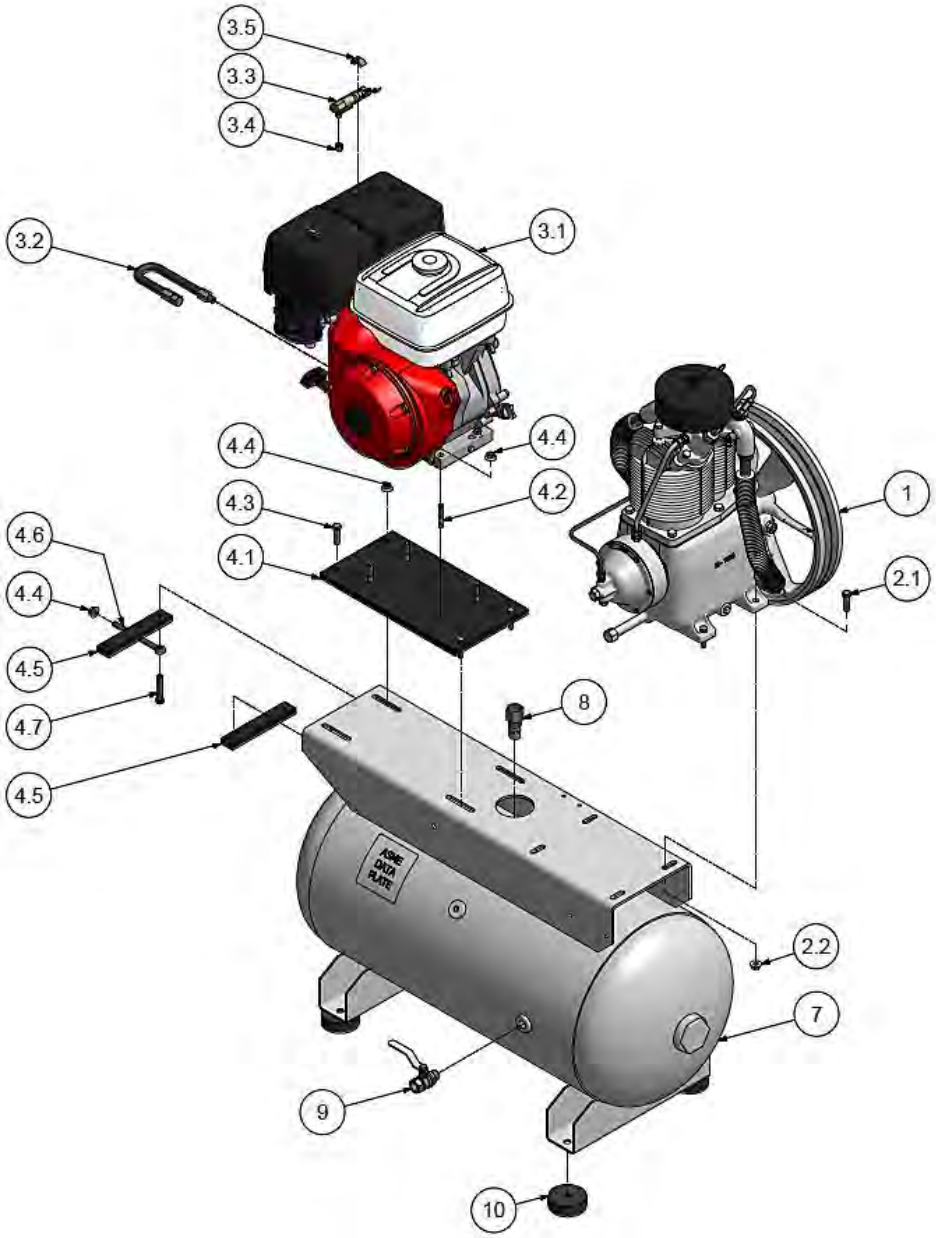
Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	P10143B	DISCHARGE TUBE, UPPER RIGHT	2
4	M2288	COMPRESSION FITTING, ELBOW	4
5	M2474	3/4” COPPER TUBING	8 FT
6	M2350	COMPRESSION FITTING, ELBOW	2

DISCHARGE PIPING - 120GL CALIFORNIA CODE, WITH AFTERCOOLER 418CAD4022

Item	Part Number	Description	Qty
1	SE542	COMPRESSION NUT	2
2	SE541	COMPRESSION FERRULE	2
3	P10143B	DISCHARGE TUBE, UPPER RIGHT	2
4	M2288	COMPRESSION FITTING, ELBOW	4
5	M2474	3/4” COPPER TUBING	10 FT
6	M2350	COMPRESSION FITTING, ELBOW	2

Section 4 – Engine Packages

Horizontal Package – Honda Gas Engine

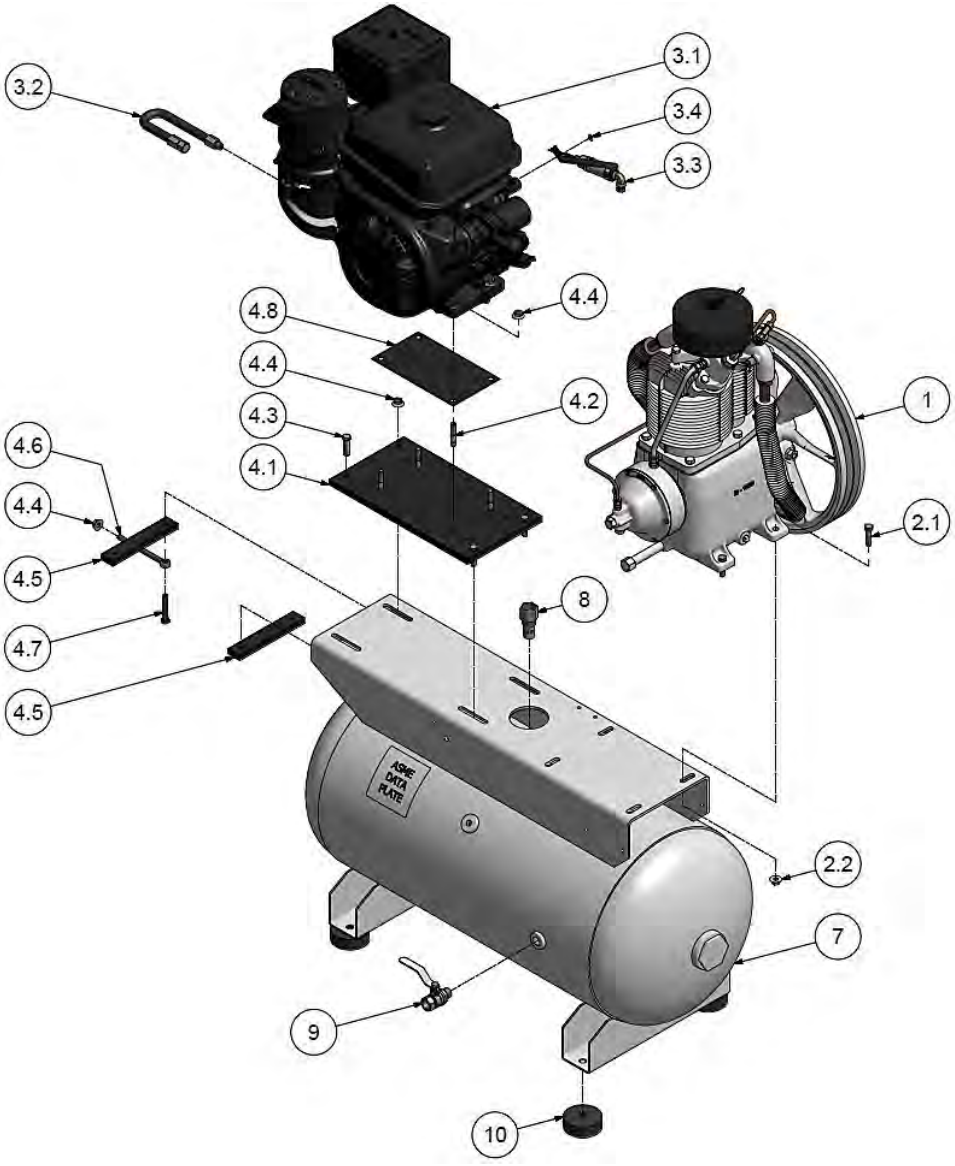


421CAS810-00
Ref Drawing

Horizontal Package – Honda Gas Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
ENGINE			**303CAE4013**
3.1	VP1097010	HONDA ENGINE, 13HP	1
3.2	VP1096045	OIL DRAIN	1
3.3	VP1096614	THROTTLE CONTROL	1
3.4	M2959	NUT & FERRULE	1
3.5	306CAE017	BRACKET, THROTTLE CONTROL	1
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
HORIZONTAL AIR RECEIVER / BASE MOUNT			
7	TEN005522-CH	RECEIVER, 30 GL HORIZONTAL, 200PSI	1
7	CC1096721-CH	RECEIVER, 60 GL HORIZONTAL, 200PSI	1
7	CC1096723-CH	RECEIVER, 80 GL HORIZONTAL, 200PSI	1
7	300CAE285	BASE MOUNT PLATE, ENGINE DRIVE (not shown)	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	M3590	BALL VALVE	1
VIBRATION ISOLATORS			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Horizontal Package – Kohler Gas Engine

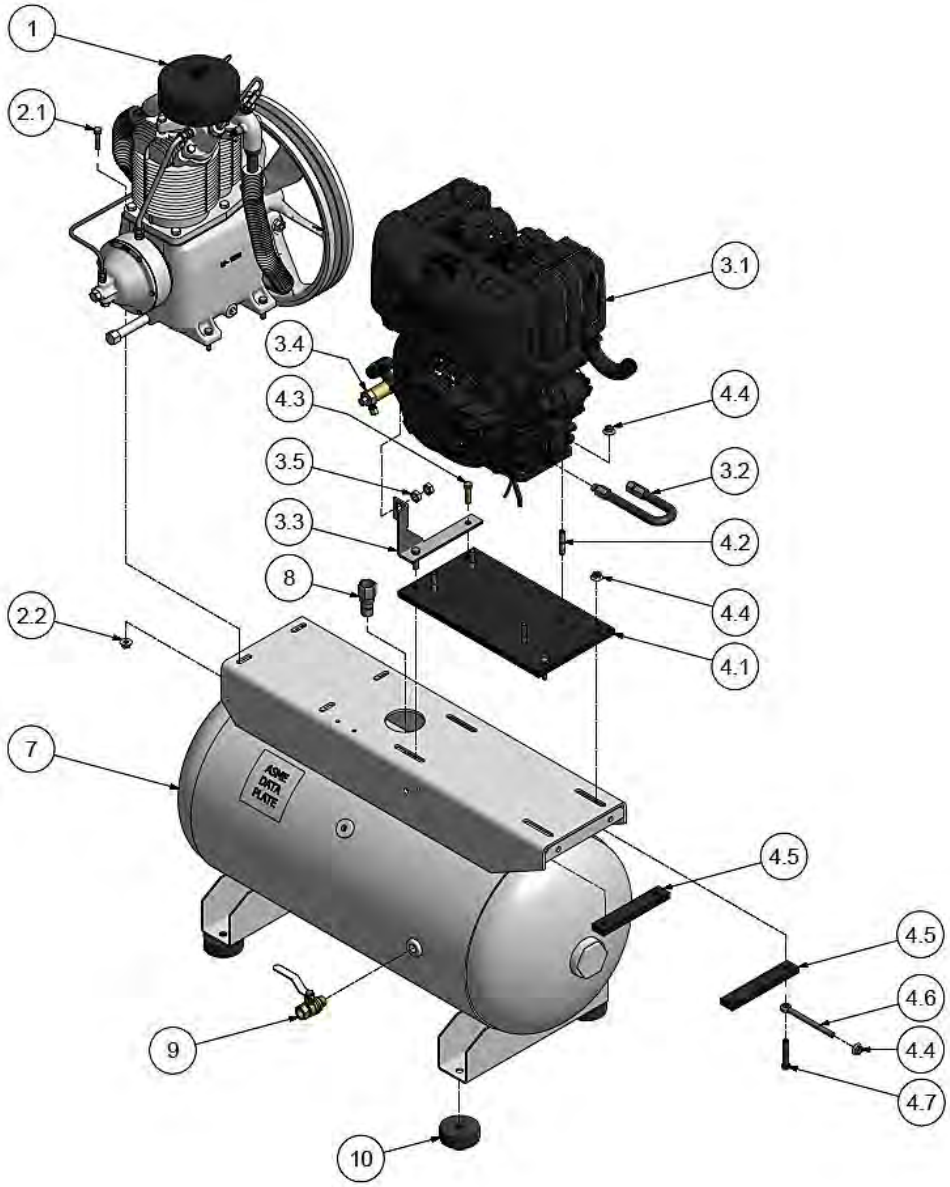


422CAS810-00
Ref Drawing

Horizontal Package – Kohler Gas Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
ENGINE			**301CAE4013**
3.1	VP1097028	KOHLER ENGINE,14HP	1
3.2	VP1096045	OIL DRAIN	1
3.3	TEN002530	THROTTLE CONTROL, WITH BRACKET	1
3.4	95B1Z	WASHER	1
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
4.8	301CAE247	PLATE, MOTOR, KOHLER SHIM	1
HORIZONTAL AIR RECEIVER / BASE MOUNT			
7	TEN005522-CH	RECEIVER, 30 GL HORIZONTAL, 200PSI	1
7	CC1096721-CH	RECEIVER, 60 GL HORIZONTAL, 200PSI	1
7	CC1096723-CH	RECEIVER, 80 GL HORIZONTAL, 200PSI	1
7	300CAE285	BASE MOUNT PLATE, ENGINE DRIVE (not shown)	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	M3590	BALL VALVE	1
VIBRATION ISOLATORS			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Horizontal Package – Kohler Diesel Engine

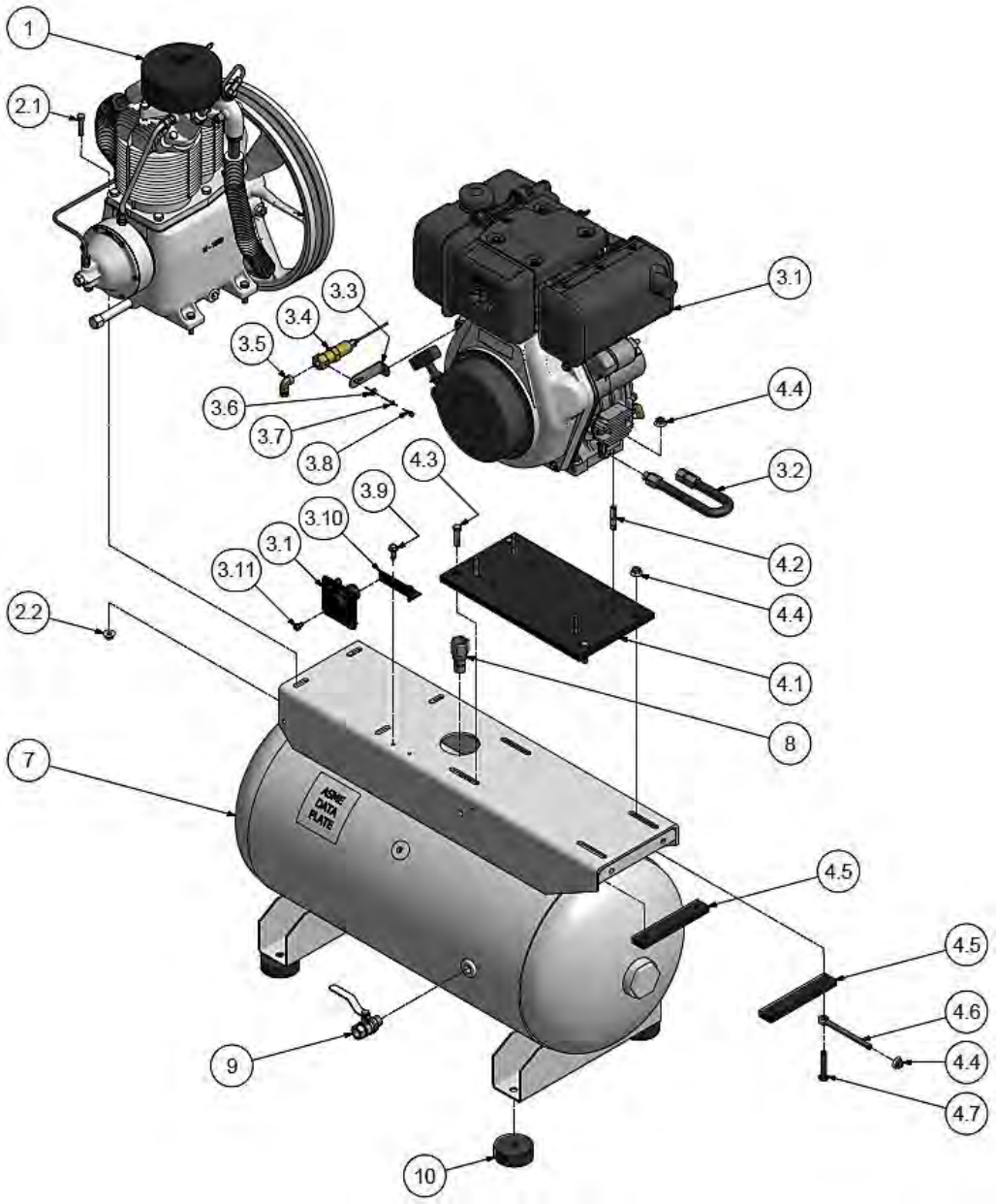


423CAS810-00
Ref Drawing

Horizontal Package – Kohler Diesel Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
9HP KOHLER DIESEL ENGINE			**319CAE4013**
3.1	VP1136277	KOHLER ENGINE, 9.1HP	1
3.2	VP1099934	OIL DRAIN	1
3.3	CC1134655	BRACKET, THROTTLE CONTROL	1
3.4	VP1135897	THROTTLE CONTROL	1
3.5	50W5	JAM NUT	2
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
HORIZONTAL AIR RECEIVER / BASE MOUNT			
7	TEN005523-CH	RECEIVER, 30 GL HORIZONTAL, 200PSI	1
7	CC1111231-CH	RECEIVER, 80 GL HORIZONTAL, 200PSI	1
7	300CAE285	BASE MOUNT PLATE, ENGINE DRIVE (not shown)	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	M3590	BALL VALVE	1
VIBRATION ISOLATORS			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Horizontal Package – Yanmar Diesel Engine

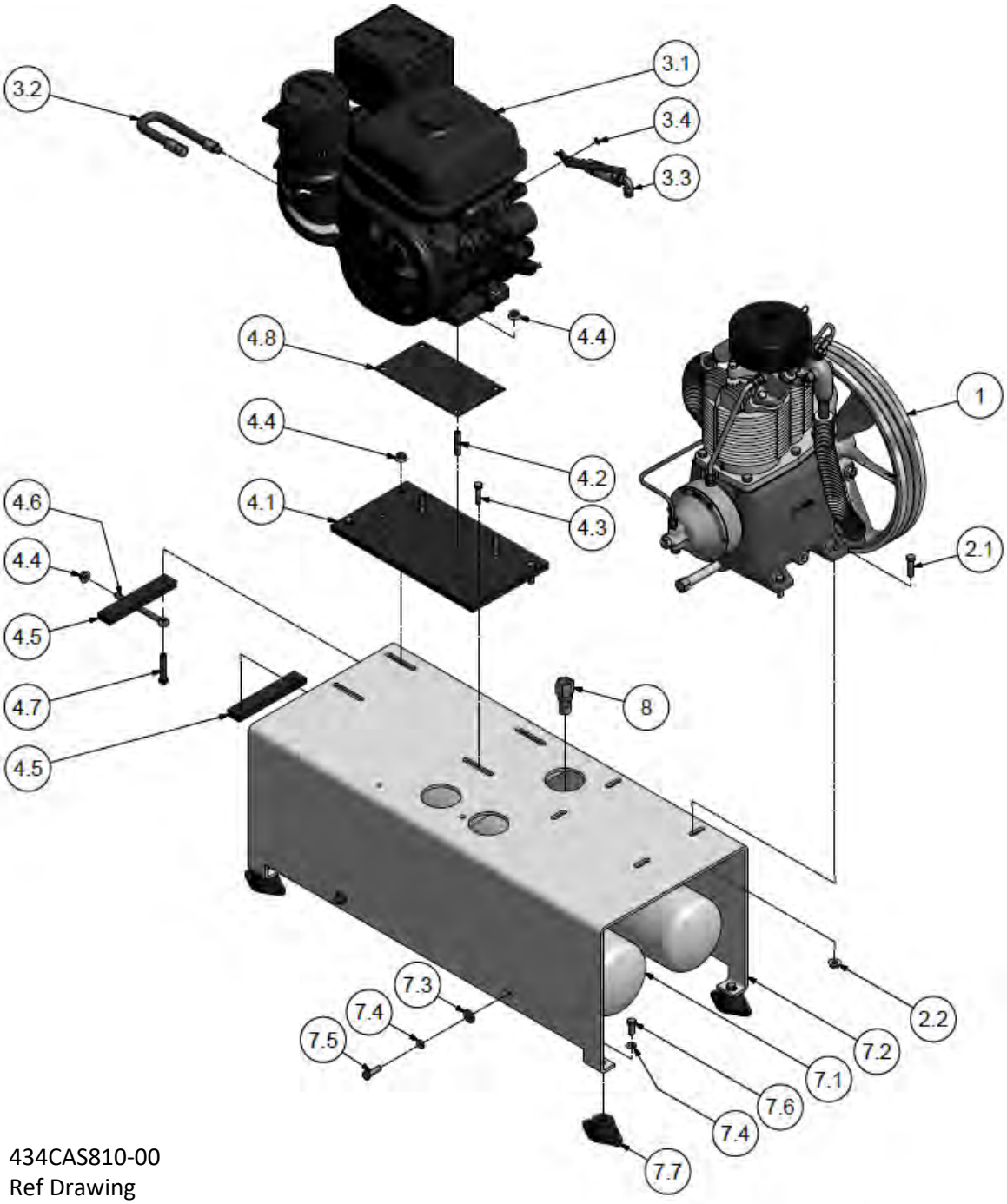


433CAS810-00
Ref Drawing

Horizontal Package – Yanmar Diesel Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
ENGINE			**320CAE4013**
3.1	VP1103634	YANMAR ENGINE, 10HP	1
3.2	VP1101377	OIL DRAIN	1
3.3	303CAE017	BRACKET, THROTTLE CONTROL	1
3.4	VP1097563	THROTTLE CONTROL	1
3.5	86E229	TUBE FITTING - ELBOW	1
3.6	121097Z	WASHER	1
3.7	95B13Z	LOCKWASHER	1
3.8	VP1096937	SCREW	1
3.9	M1454	SCREW	2
3.10	304CAE017	BRACKET, KEY START	1
3.11	75LM47	SCREW	2
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
HORIZONTAL AIR RECEIVER / BASE MOUNT			
7	TEN005523-CH	RECEIVER, 30 GL HORIZONTAL, 200PSI	1
7	CC1111231-CH	RECEIVER, 80 GL HORIZONTAL, 200PSI	1
7	300CAE285	BASE MOUNT PLATE, ENGINE DRIVE (not shown)	1
CHECK VALVE			
8	P05822A	CHECK VALVE	1
BALL VALVE			
9	M3590	BALL VALVE	1
VIBRATION ISOLATORS			
10	P14608A	ISOLATOR,VIBRATION,4"DIA.	4

Low Profile Package – Honda Gas Engine

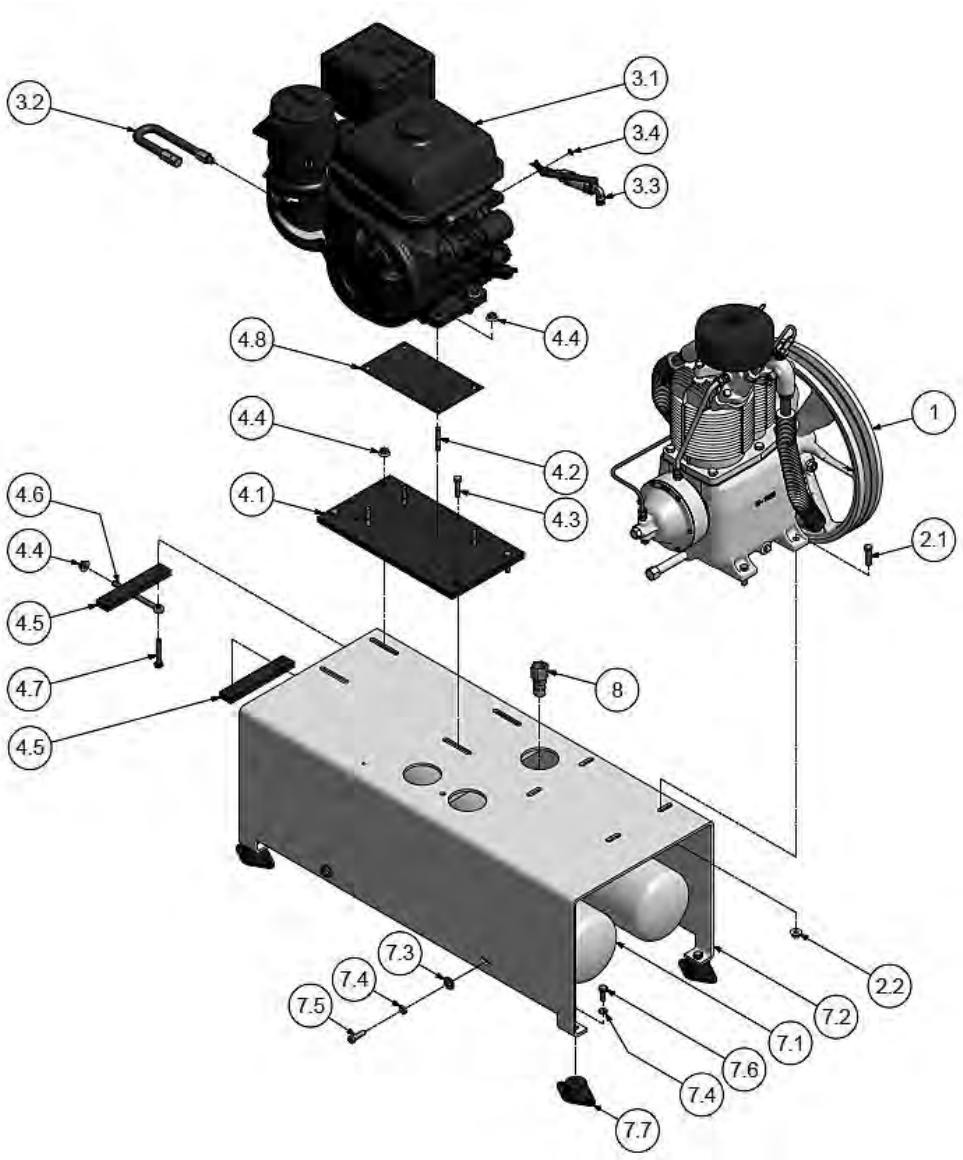


434CAS810-00
Ref Drawing

Low Profile Package – Honda Gas Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
ENGINE			**303CAE4013**
3.1	VP1097010	HONDA ENGINE, 13HP	1
3.2	VP1096045	OIL DRAIN	1
3.3	VP1096614	THROTTLE CONTROL	1
3.4	M2959	NUT & FERRULE	1
3.5	306CAE017	BRACKET, THROTTLE CONTROL	1
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
GRP-TANK, LOW PROFILE			**400CAE4036**
7.1	CC1097097-CH	RECEIVER, 8GL LOW PROFILE, 200 PSIG	1
7.2	301CAE285	BASE, LOW PROFILE	1
7.3	M3055	WASHER	4
7.4	M3052	LOCK WASHER	8
7.5	M3460	SCREW	4
7.6	655ED040Z	SCREW	4
7.7	P09808A	ISOLATOR, VIBRATION	4
CHECK VALVE			
8	P05822A	CHECK VALVE	1

Low Profile Package – Kohler Gas Engine

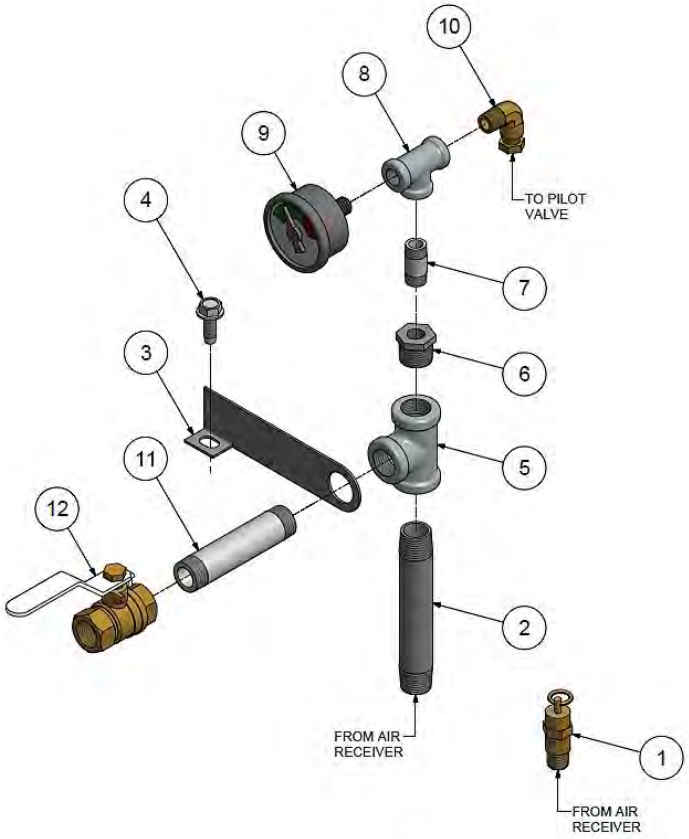


422CAS810-00
Ref Drawing

Low Profile Package – Kohler Gas Engine

Item	Part Number	Description	Qty
COMPRESSOR			**R2-30A**
1	R2-30A-EP01	R15 COMPRESSOR, ENGINE DRIVEN	1
COMPRESSOR MOUNTING			**401CAS4017**
2.1	M3460	SCREW	4
2.2	M3483	NUT	4
ENGINE			**301CAE4013**
3.1	VP1097028	KOHLER ENGINE,14HP	1
3.2	VP1096045	OIL DRAIN	1
3.3	TEN002530	THROTTLE CONTROL, WITH BRACKET	1
3.4	95B1Z	WASHER	1
ENGINE MOUNTING			**406CAS4015**
4.1	300CAE247	MOTOR PLATE	1
4.2	VP1105236	STUD	4
4.3	M3460	SCREW	3
4.4	M3483	NUT	6
4.5	300CAE145	MOTOR MOUNTING BRACKET	2
4.6	VP1096404	EYE BOLT	1
4.7	655ED09AZ	SCREW	1
4.8	301CAE247	PLATE, MOTOR, KOHLER SHIM	1
GRP-TANK, LOW PROFILE			**400CAE4036**
7.1	CC1097097-CH	RECEIVER, 8GL LOW PROFILE, 200 PSIG	1
7.2	301CAE285	BASE, LOW PROFILE	1
7.3	M3055	WASHER	4
7.4	M3052	LOCK WASHER	8
7.5	M3460	SCREW	4
7.6	655ED040Z	SCREW	4
7.7	P09808A	ISOLATOR, VIBRATION	4
CHECK VALVE			
8	P05822A	CHECK VALVE	1

Ball Valve Group – Low Profile Gas

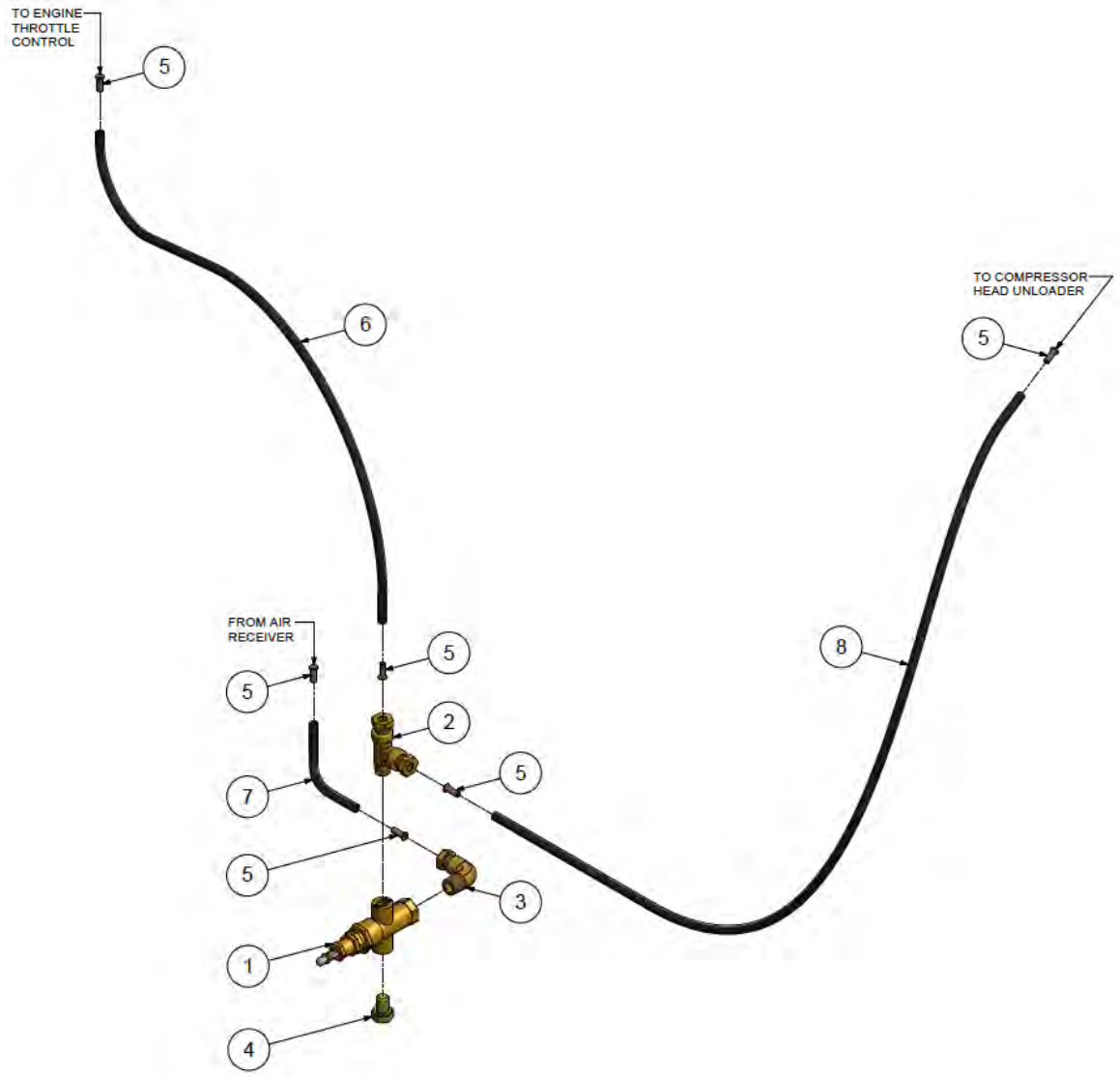


435CAS810-00
Ref Drawing

GRP-TANK,LOW PROFILE,1/2" BALL VALVE **408CAS4061**

Item	Part Number	Description	Qty
1	M2843	PRESSURE RELIEF VALVE, 200 PSIG	1
2	63F39	PIPE NIPPLE	1
3	P08733A	BRACKET	1
4	M1454	SCREW	1
5	M934B	TEE	1
6	M1318	BUSHING	1
7	P08798A	PIPE NIPPLE	1
8	M1003B	PIPE TEE	1
9	M519C	PRESSURE GAUGE	1
10	86A40	COMPRESSION FITTING, ELBOW	1
11	M1051B	PIPE NIPPLE	1
12	M2685	BALL VALVE	1

Control Group – Low Profile Gas

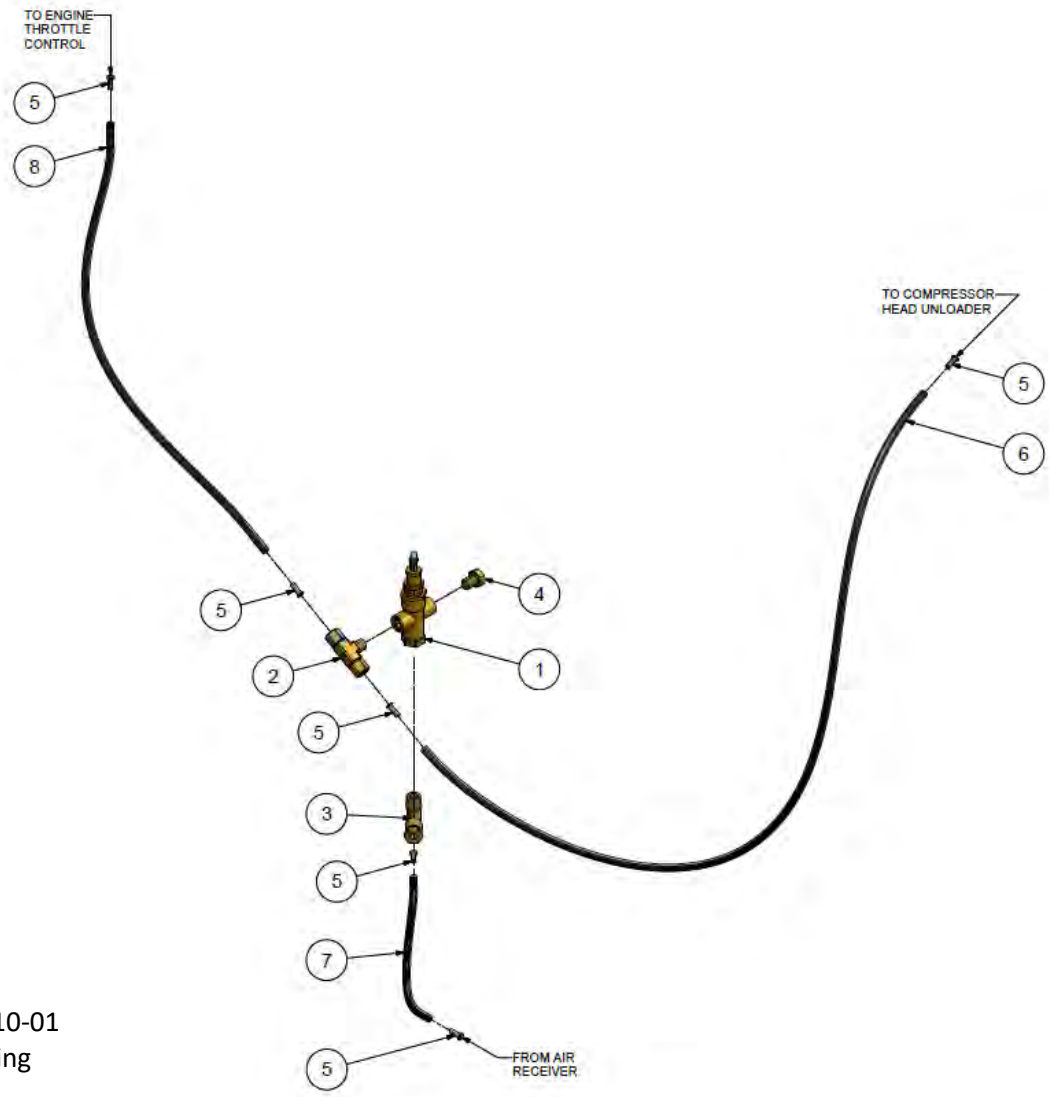


436CAS810-00
Ref Drawing

GRP-CONTROL,175PSI (8GL - GAS) **302CAE4052**

Item	Part Number	Description	Qty
1	VP1089041	PILOT VALVE,175PSI,UNLOADER LEVER	1
2	86E235	TUBE FITTING, TEE	1
3	86A40	TUBE FITTING, ELBOW	1
4	M3465	SCREW	1
5	P10118A	TUBE INSERT	6
6	P08084A	PLASTIC TUBING	2.63 FT
7	P08084A	PLASTIC TUBING	0.34 FT
8	P08084A	PLASTIC TUBING	1.57 FT

Control Group – Horizontal Gas



426CAS810-01
Ref Drawing

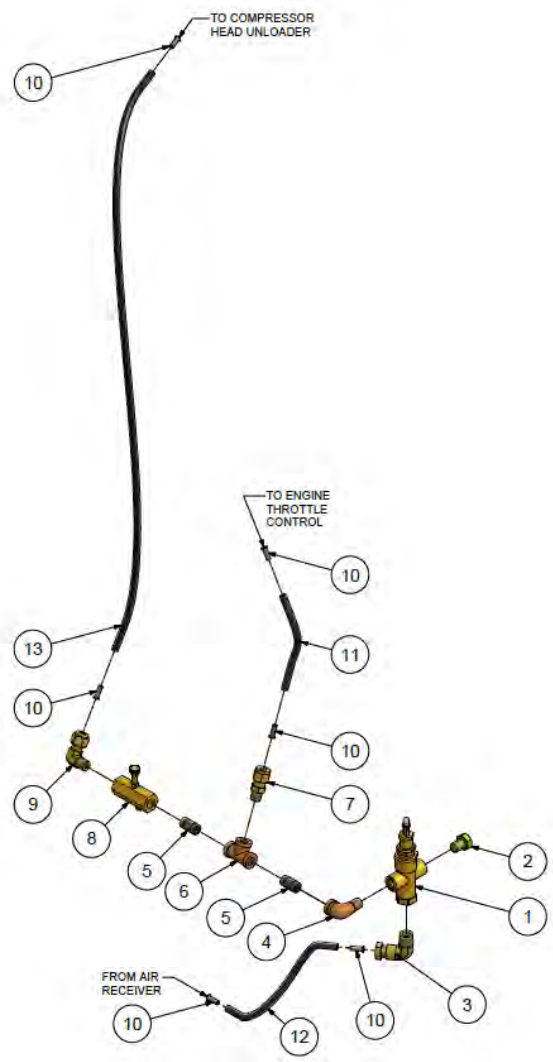
300CAE4052
305CAE4052

GRP-CONTROL,175PSI (30GL, 60GL, 80GL, BASE - GAS)

Item	Part Number	Description	Qty
1	VP1089041	PILOT VALVE,175PSI,UNLOADER LEVER	1
2	M2879	TUBE FITTING, TEE	1
3	86A40	TUBE FITTING, 90 DEG. ELBOW	1
4	M3465	SCREW	1
5	P10118A	TUBE INSERT	6
6	P08084A	PLASTIC TUBING	3.4 FT
7	P08084A	PLASTIC TUBING	0.65 FT
8	P08084A	PLASTIC TUBING	1.7 FT

Control Group – Horizontal Diesel

427CAS810-01
Ref Drawing

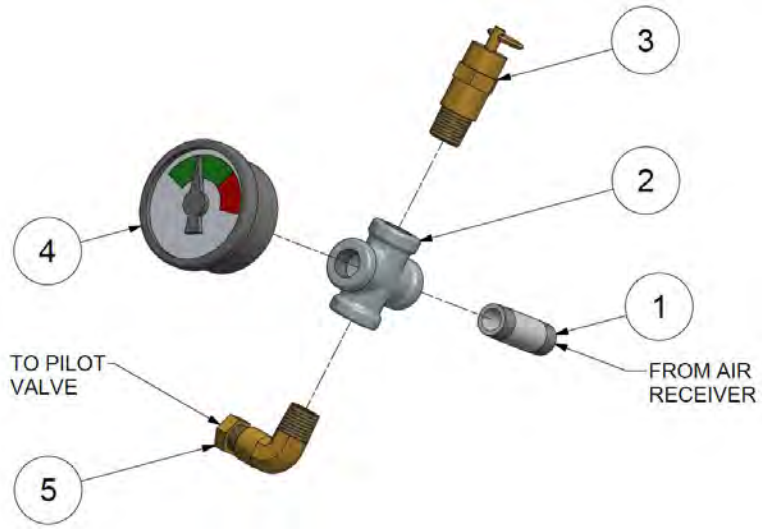


307CAE4052
309CAE4052

GRP-CONTROL,175PSI (30GL, 80GL, BASE - DIESEL)

Item	Part Number	Description	Qty
1	VP1089041	PILOT VALVE,175PSI,UNLOADER LEVER	1
2	M3465	SCREW	1
3	86A40	TUBE FITTING, 90 DEG. ELBOW	1
4	M3251	PIPE ELBOW	1
5	M3174	PIPE NIPPLE	2
6	M3474	PIPE TEE	1
7	M2863	TUBE FITTING, STRAIGHT	1
8	P09263A	LOAD DELAY VALVE	1
9	M2868	TUBE FITTING, ELBOW	1
10	P10118A	TUBE INSERT	6
11	P08084A	PLASTIC TUBING	0.39 FT
12	P08084A	PLASTIC TUBING	0.75 FT
13	P08084A	PLASTIC TUBING	1.9 FT

Gauge / Relief Valve – Horizontal

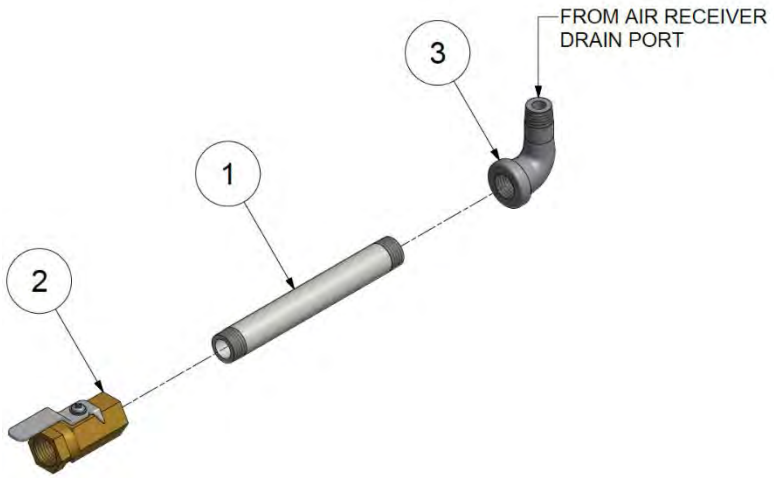


425CAS810-01
Ref Drawing

PRESSURE GAUGE / RELIEF VALVE (30GL, 60GL, 80GL) **Z3819**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE	1
2	64K1	PIPE CROSS	1
3	M2843	PRESSURE RELIEF VALVE, 200 PSIG	1
4	M519C	PRESSURE GAUGE	1
5	86A40	TUBE FITTING - ELBOW	1

Tank Drain – Manual



401CAS810-01
Ref Drawing

MANUAL TANK DRAIN (ENGINE) **404CAS4027**

Item	Part Number	Description	Qty
1	M1016B	PIPE NIPPLE	1
2	VP1022988	BALL VALVE	1
3	M980B	PIPE ELBOW	1

Power Transmission

432CAS810-00
Ref Drawing

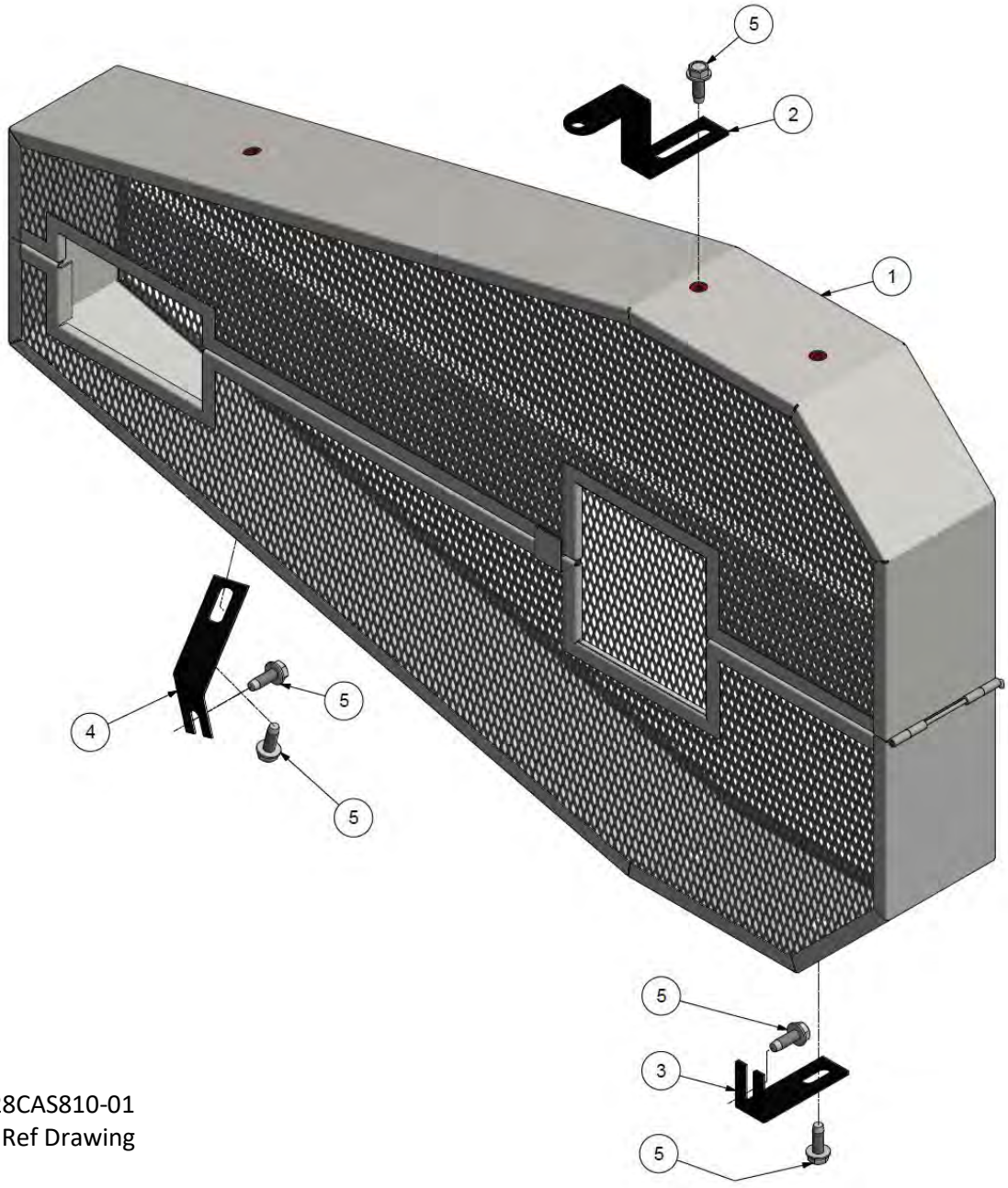
TRANSMISSION GROUP (GAS) **305CAE4013**

Item	Part Number	Description	Qty
1	VP1045266	PULLEY,4.95OD,SDS,2GR,A/B	1
2	22F16SDS	BUSHING,PULLEY,SDS,1" BORE	1
3	13E544	V-BELT, BX71	2

TRANSMISSION GROUP (DIESEL) **309CAE4013**

Item	Part Number	Description	Qty
1	P14046A	PULLEY,4.35OD,2GR,A/B	1
2	P09799A	BUSHING,PULLEY,SH,1"BORE	1
3	13E544	V-BELT, BX71	2

Belt Guard – Gas Engine

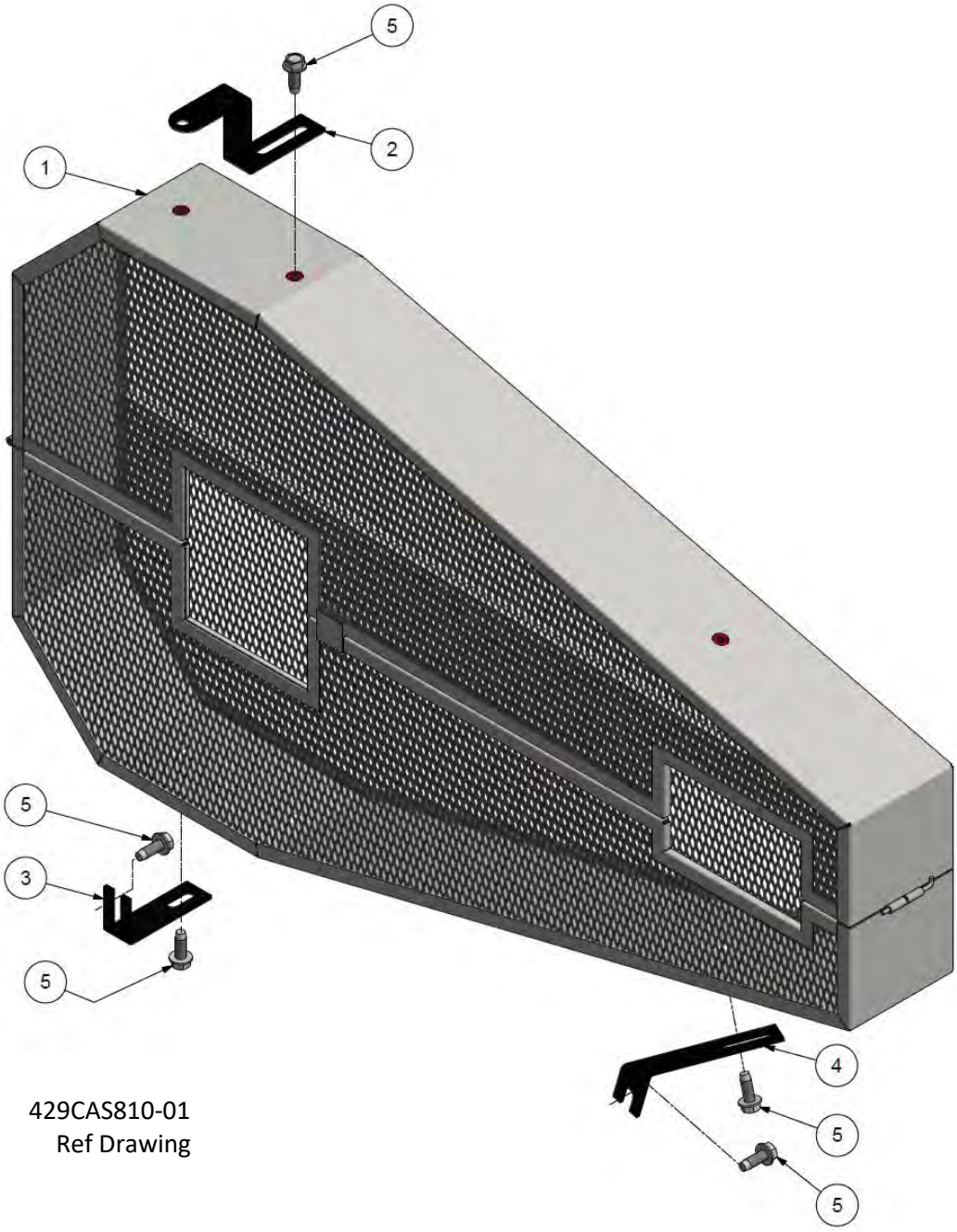


428CAS810-01
Ref Drawing

BELTGUARD GROUP - GAS **300CAE4029**

Item	Part Number	Description	Qty
1	304CAE120	BELT GUARD, ENGINE DRIVE	1
2	M855	BRACKET	1
3	M856	BRACKET	1
4	P05517A	BRACKET	1
5	M1454	SCREW	5

Belt Guard – Diesel Engine

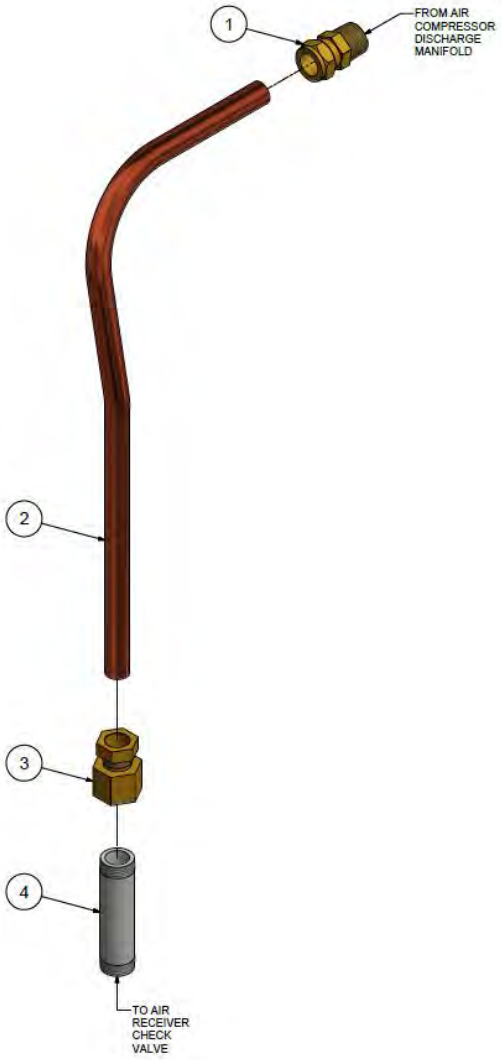


429CAS810-01
Ref Drawing

BELTGUARD GROUP - DIESEL **301CAE4029**

Item	Part Number	Description	Qty
1	304CAE120	BELT GUARD, ENGINE DRIVE	1
2	M855	BRACKET	1
3	M856	BRACKET	1
4	CC1023978	BRACKET	1
5	M1454	SCREW	5

Discharge Piping – Gas Engine



430CAS810-00
Ref Drawing

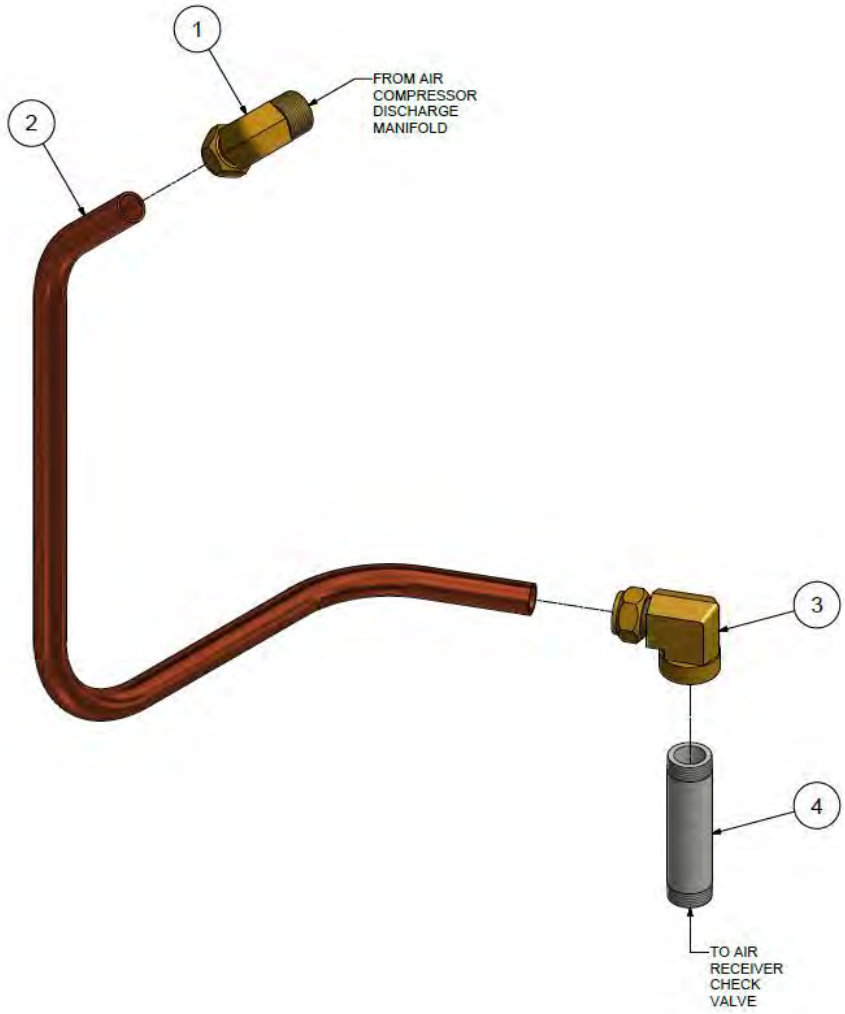
DISCHARGE PIPING - 8GL, GAS 400CAE4022

Item	Part Number	Description	Qty
1	M2867	TUBE FITTING, STRAIGHT	1
2	301CAE857	DISCHARGE TUBE	1
3	86E279	TUBE FITTING, STRAIGHT	1
4	M478	PIPE NIPPLE	1

DISCHARGE PIPING - 30GL, 60GL, 80GL, GAS 429CAS4022

Item	Part Number	Description	Qty
1	M2867	TUBE FITTING, STRAIGHT	1
2	TEN010833	DISCHARGE TUBE	1
3	86E279	TUBE FITTING, STRAIGHT	1
4	M478	PIPE NIPPLE	1

Discharge Piping – Diesel Engine



431CAS810-00
Ref Drawing

DISCHARGE PIPING - 30GL, DIESEL **430CAS4022**

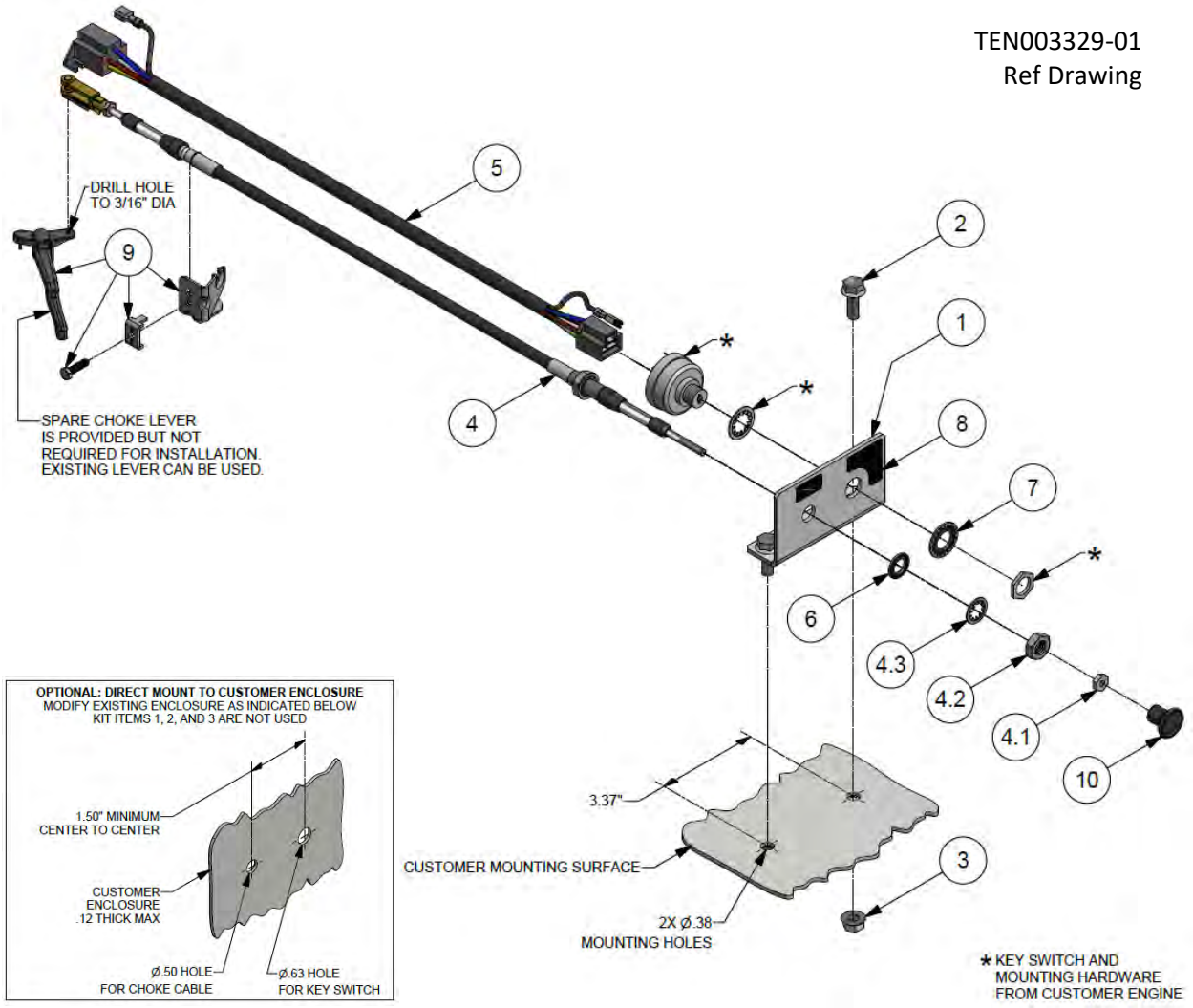
Item	Part Number	Description	Qty
1	M2350	TUBE FITTING, ELBOW	1
2	TEN010834	DISCHARGE TUBE	1
3	M2398	TUBE FITTING, ELBOW	1
4	M478	PIPE NIPPLE	1

DISCHARGE PIPING - 80GL, DIESEL (not shown) **401CAE4022**

Item	Part Number	Description	Qty
1	M2867	TUBE FITTING, STRAIGHT	2
2	302CAE857	DISCHARGE TUBE	1

Remote Mount Choke and Key switch – Kohler 14hp (optional)

TEN003329-01
Ref Drawing



KIT,REMOTE MOUNT,CHOKE AND KEY SWITCH **TEN003329**

1	TEN003131	MOUNTING BRACKET	1
2	75LM327	SCREW	2
3	50AW4	NUT	2
4	TEN003086	ENGINE CHOKE CABLE	1
5	TEN003070	KEY SWITCH WIRING HARNESS	1
6	TST000122	SEAL WASHER	1
7	TST000124	SEAL WASHER	1
8	TEN004766	CHOKE / OFF-RUN-START DECAL	1
9	TEN003091	REMOTE CHOKE MOUNT KIT	1
10	TEN003077	PULL KNOB	1

CHAMPION

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ENERGY STAR PARTNER

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KNOW PRESSURE COMPRESSED AIR CHALLENGE

Please recycle after use.