C-100 Parts Manual

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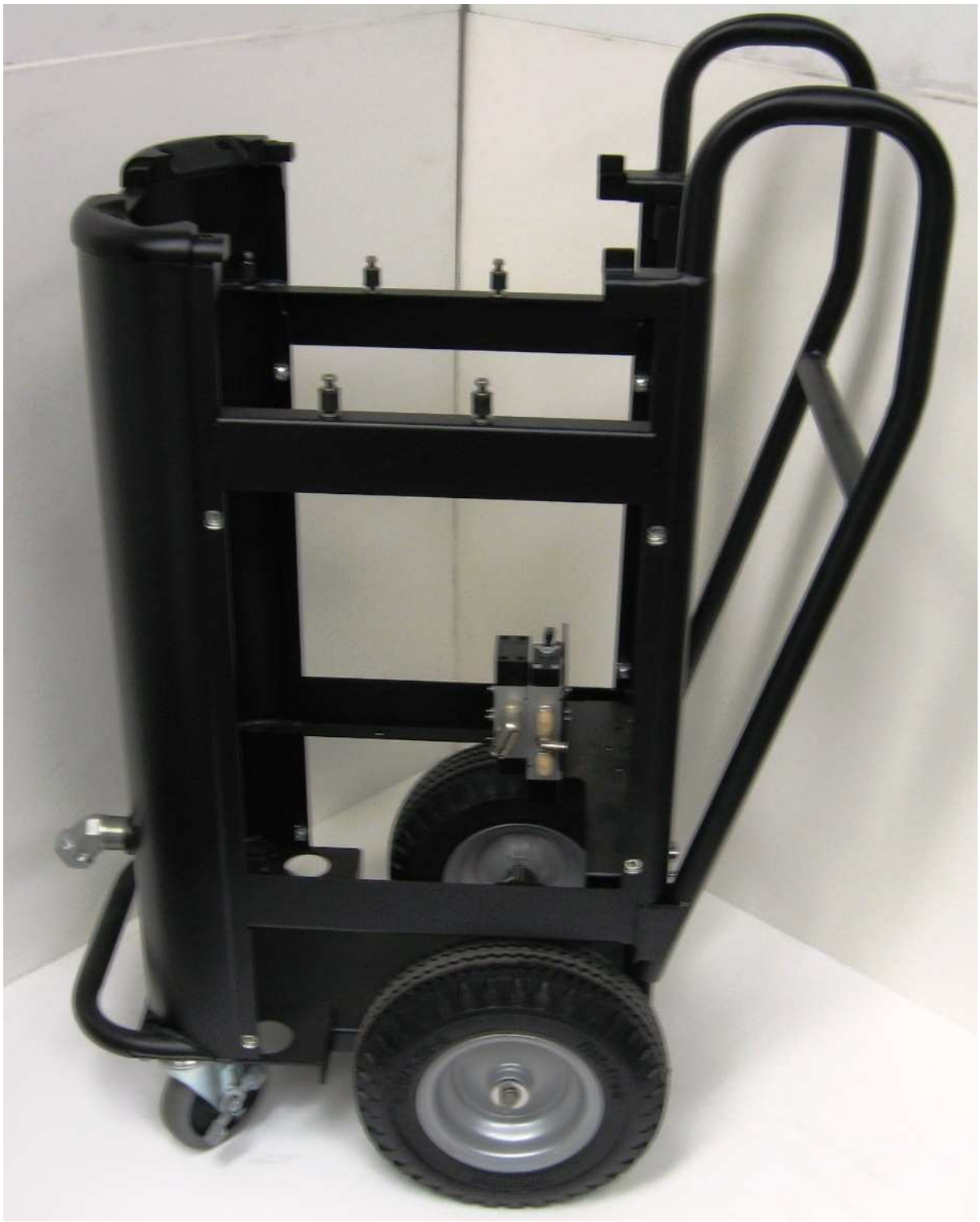
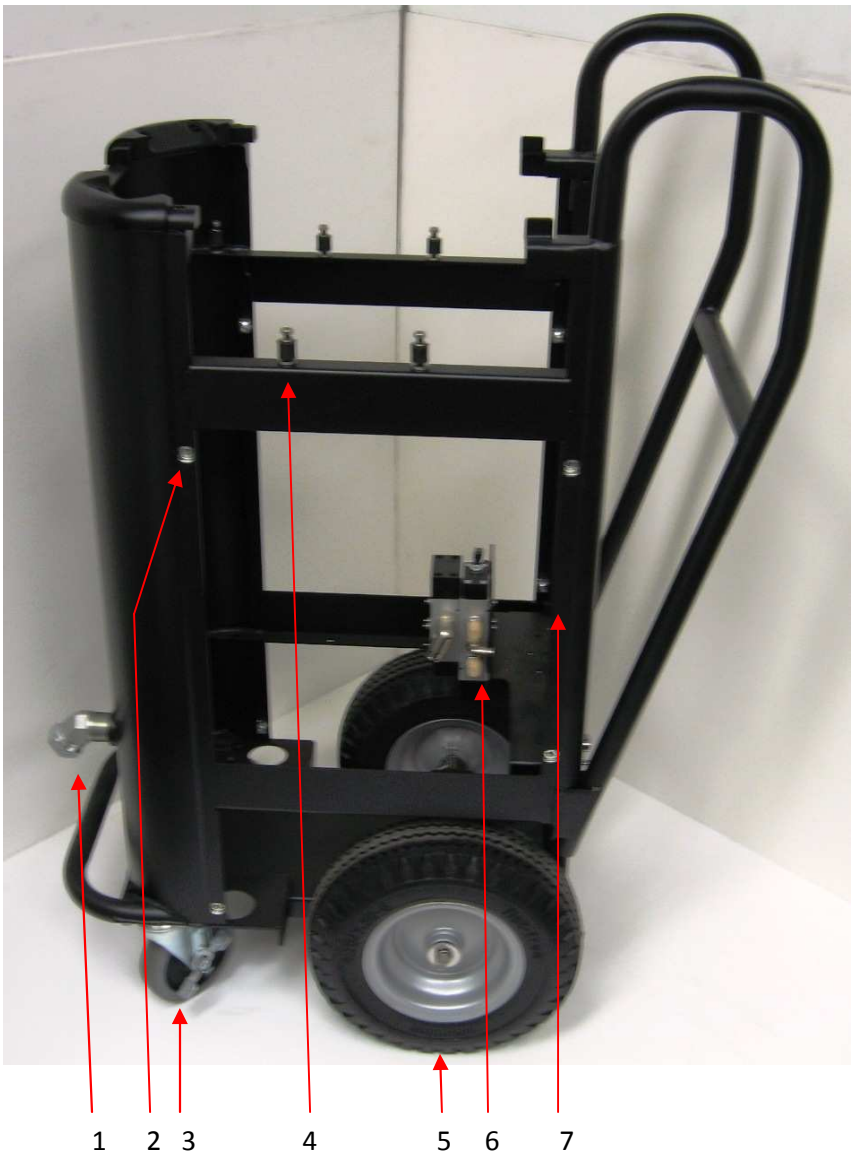
AeRO C-100 Frame

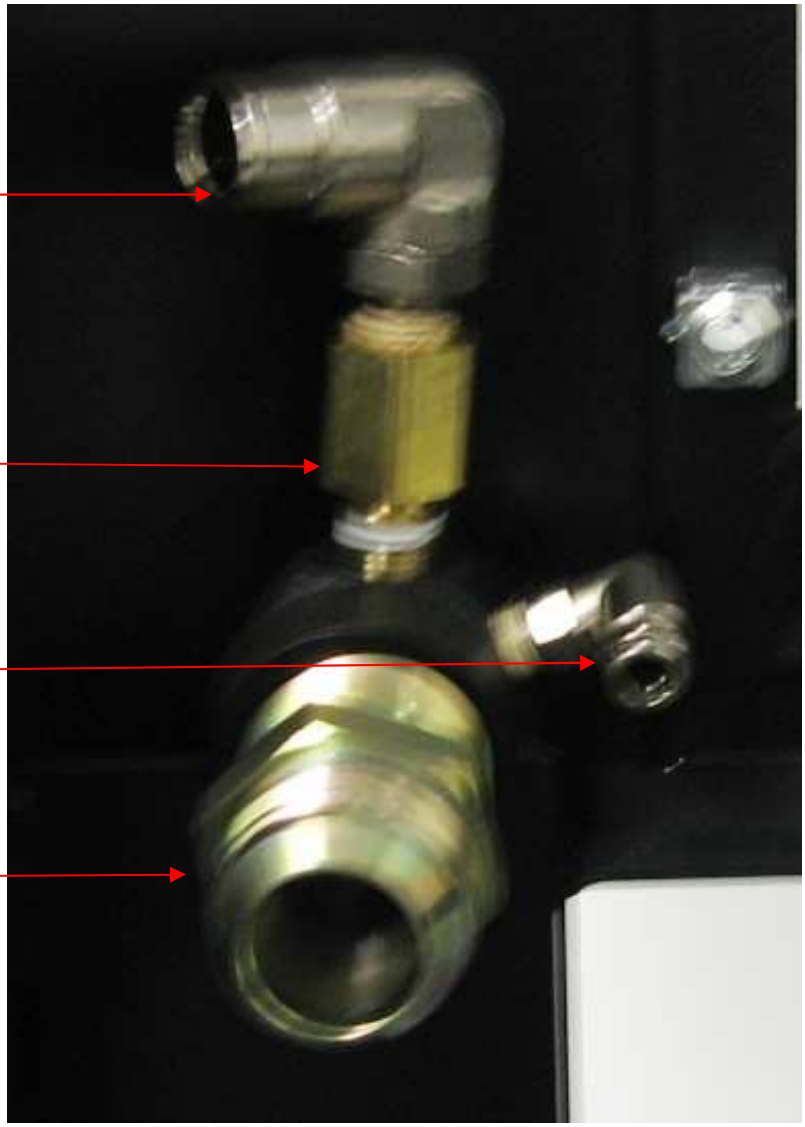




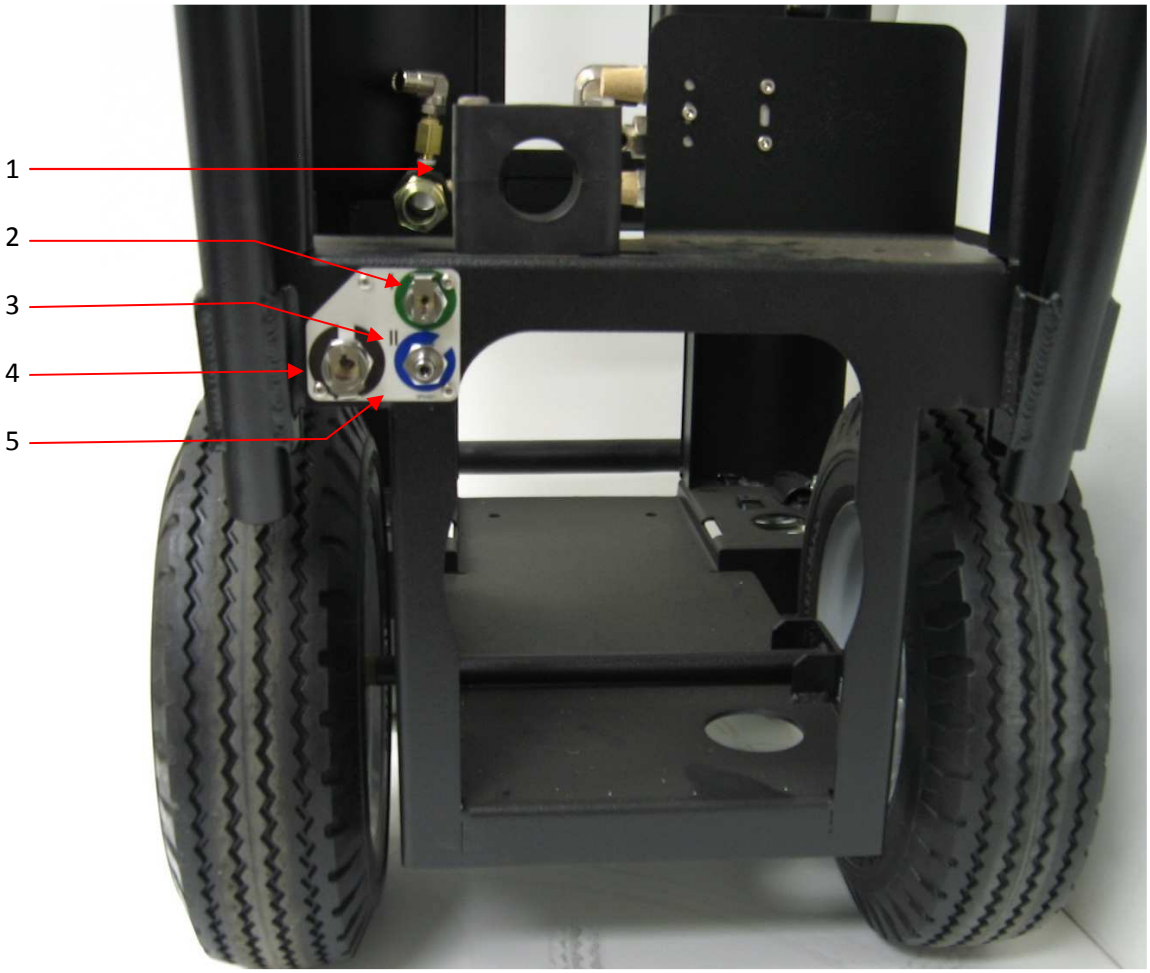
Parts listed on next page

Item #	Part #	Description	Qty.
1	4N0419	ELBOW, 45° - 1.0 MNPT x 1.0 NPSM	1
2	4Z0574	RECEPTICLE, QTR TRN FASTENER	12
3	4J0059	CASTER, SWIVEL w/BRAKE - 5 x 250 Lbs.	2
4	4Z0414-B WO-M6 WL-M6 NH-M6	MOUNT, VIBRATION M6 x 35# LOAD CAPACITY WASHER, OVERSIZED FLAT - M6 WASHER, REG LOCK - M6 NUT, HEX - M6	6 12 6 6
5	4Z0592 WF-10 80174-003 80174-002	WHEEL, GREY HUB W/ 5/8" BEARING WASHER, REG FLAT - .625 PIN,HAIR COTTER,.120" X 1/2-5/8 SHAFT,SS PIN,RUE RING COTTER	2 4 2 2
6	Own section in Parts Manual	Pilot air valves Assemblies	
7	2J0183-F	Frame	1

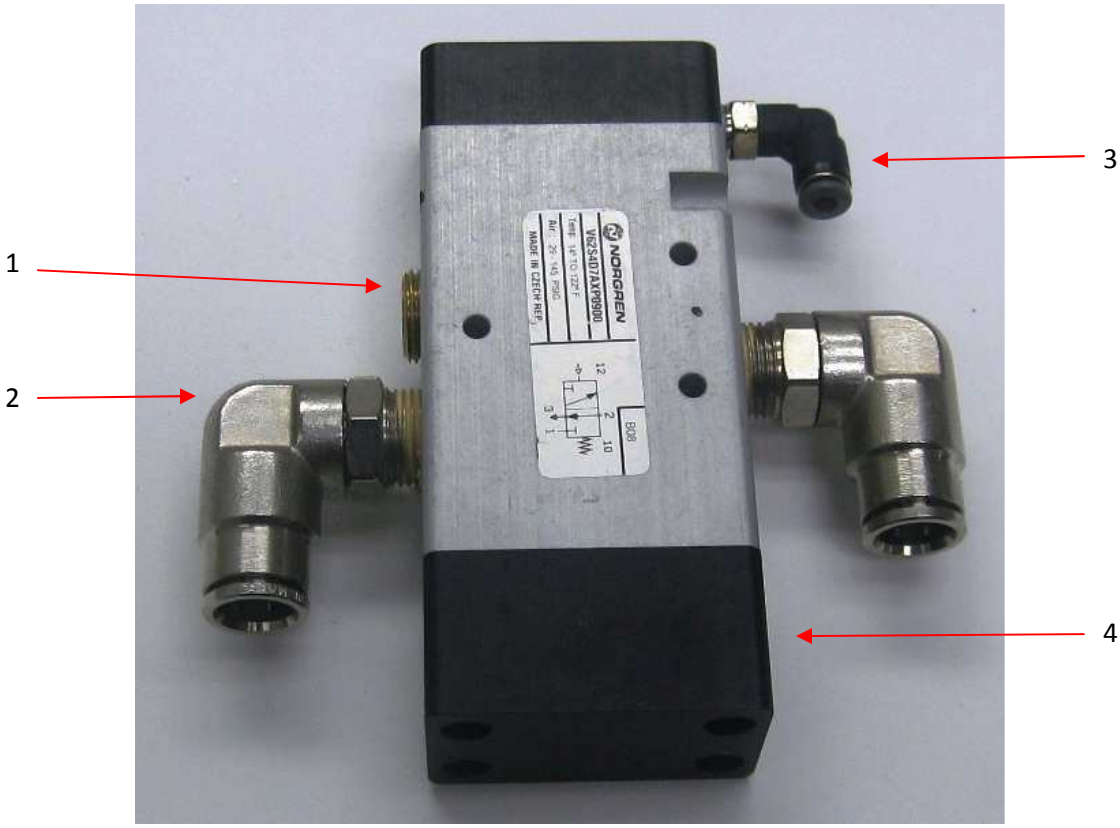
Item #	Part #	Description	Qty.
1	3J0829	CORNER, TOP - FRAME	2
2	4Z0616	SCREW, M6 X 16MM, METRIC NYLON CHEESEHEAD SLOTTED MACHINE, BLACK, 1MM PITCH	8



Item #	Part #	Description	Qty.
1	124470728	MALE SWIVEL ELBOW 1/2" OD TUBE X 1/4" NPT	1
2	4N0483	FITTING-BRASS PIPE, 1/4" MNPT x 1/4" FNPT	1
3	169PL-4-2	ELBOW, SWIVEL - 1/4 TUBE x 1/8 MNPT	1
4	16FTX-S	CONNECTOR, 1"JICMx1"NPTM	1



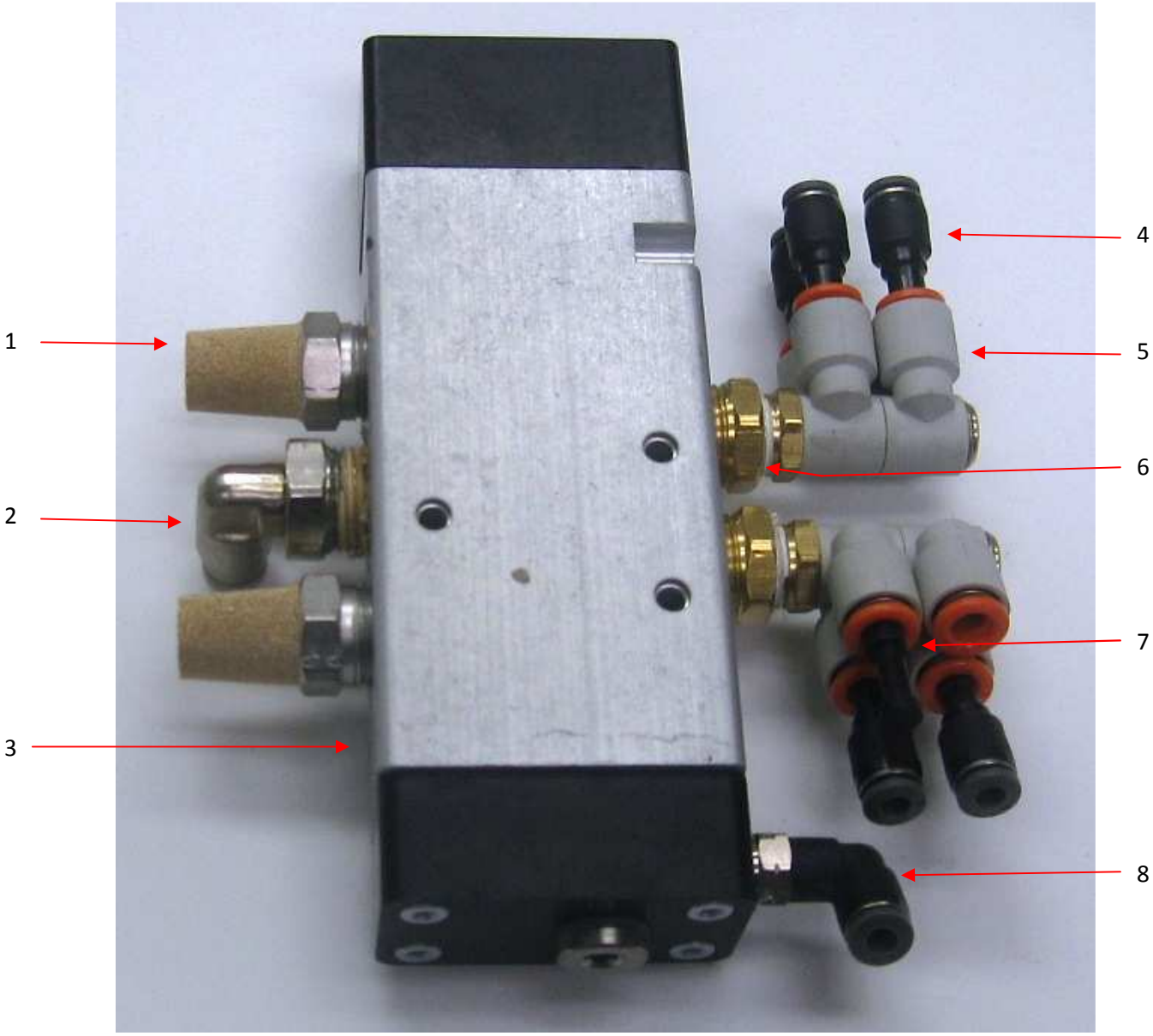
Item #	Part #	Description	Qty.
1	2N0206-A HH-04C-044	CLAMP, PIPE SUPPORT - 1 1/4" TUBE SCREW, HEX HEAD CAP - .25-20 X 2.75" LONG	1 2
2	4N0464	QUICK CONNECTOR - 5/32" TUBE, FEMALE, PANEL MOUNT, FERRULELESS	1
3	4N0465	QUICK CONNECTOR - 1/4" OD TUBE, SM MALE, PANEL MOUNT	1
4	4N0463	QUICK CONNECTOR - 1/4" OD TUBE, LG FEMALE, PANEL MOUNT	1
5	3P0491 PP-M3-006	LABEL, BLAST CONTROL CONNECTIONS SCREW, PHILLIPS PAN HEAD - M3 x 6	1 4



2I0221 VALVE ASSEMBLY-PNEUMATIC PILOT OPERATED, 3-WAY SPOOL, Operates Air Motor Assembly sold with Fittings

Item #	Part #	Description	Qty.
1	6HHP-S	PLUG, HOLLOW HEX - 3/8" MNPT	1
2	124470738	1/2" OD T x 3/8" MNPT, SWIVEL MALE ELBOW CONNECTOR	2
3	C124470738	ELBOW, SWIVEL, PUSHLOK - 5/32T X 1/8 MNPT	1
4	4N0477	VALVE-DIRECTIONAL CONTROL, 3/8" NPT PORTS, 2/3	1

***Valve Assembly used on C-100's Serial #179 -current**



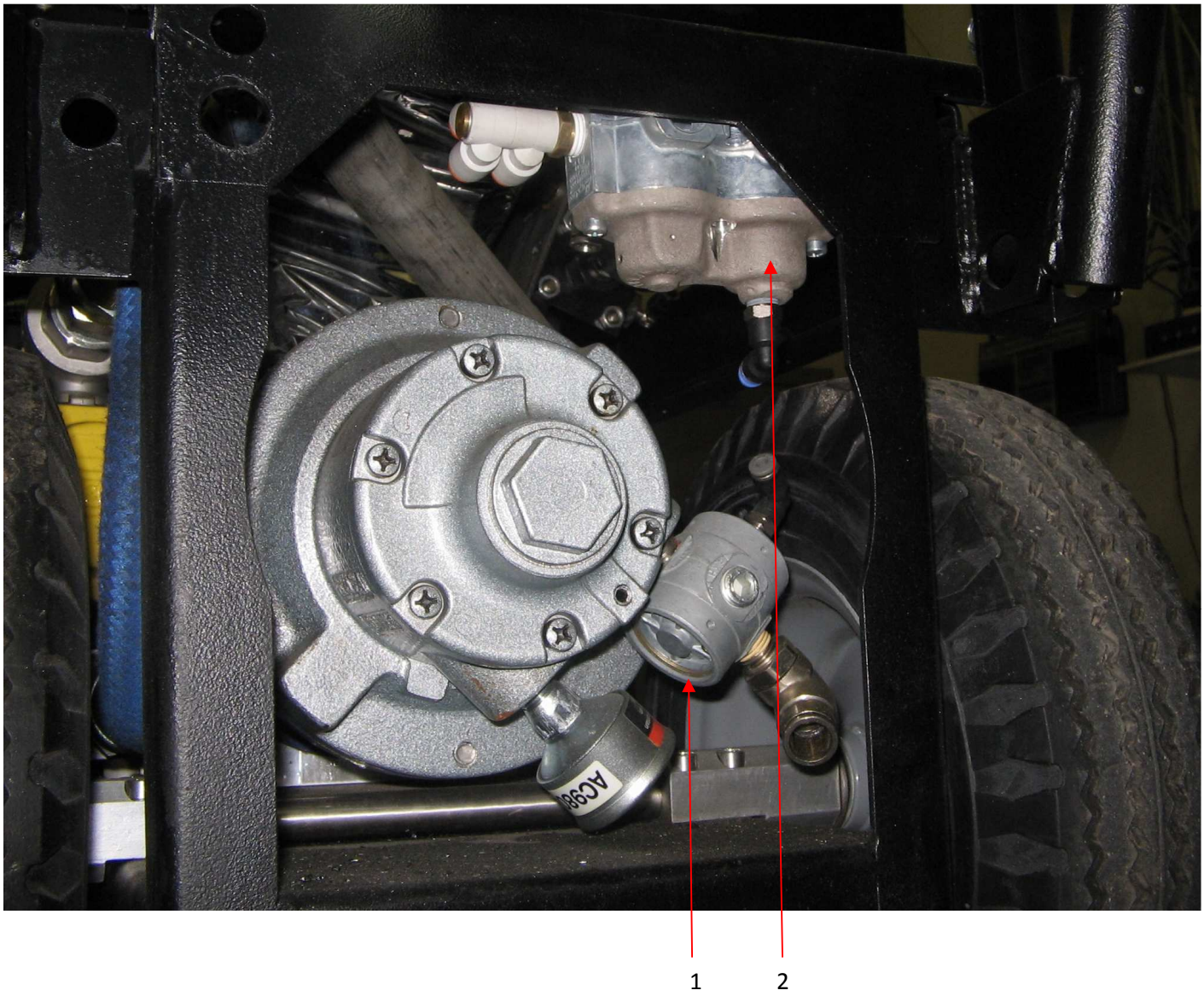
2I0222 VALVE ASSEMBLY - THUMPER/RAMROD CONTROL/Ball Valve

Valve sold with Fittings complete

Table for fitting on next page

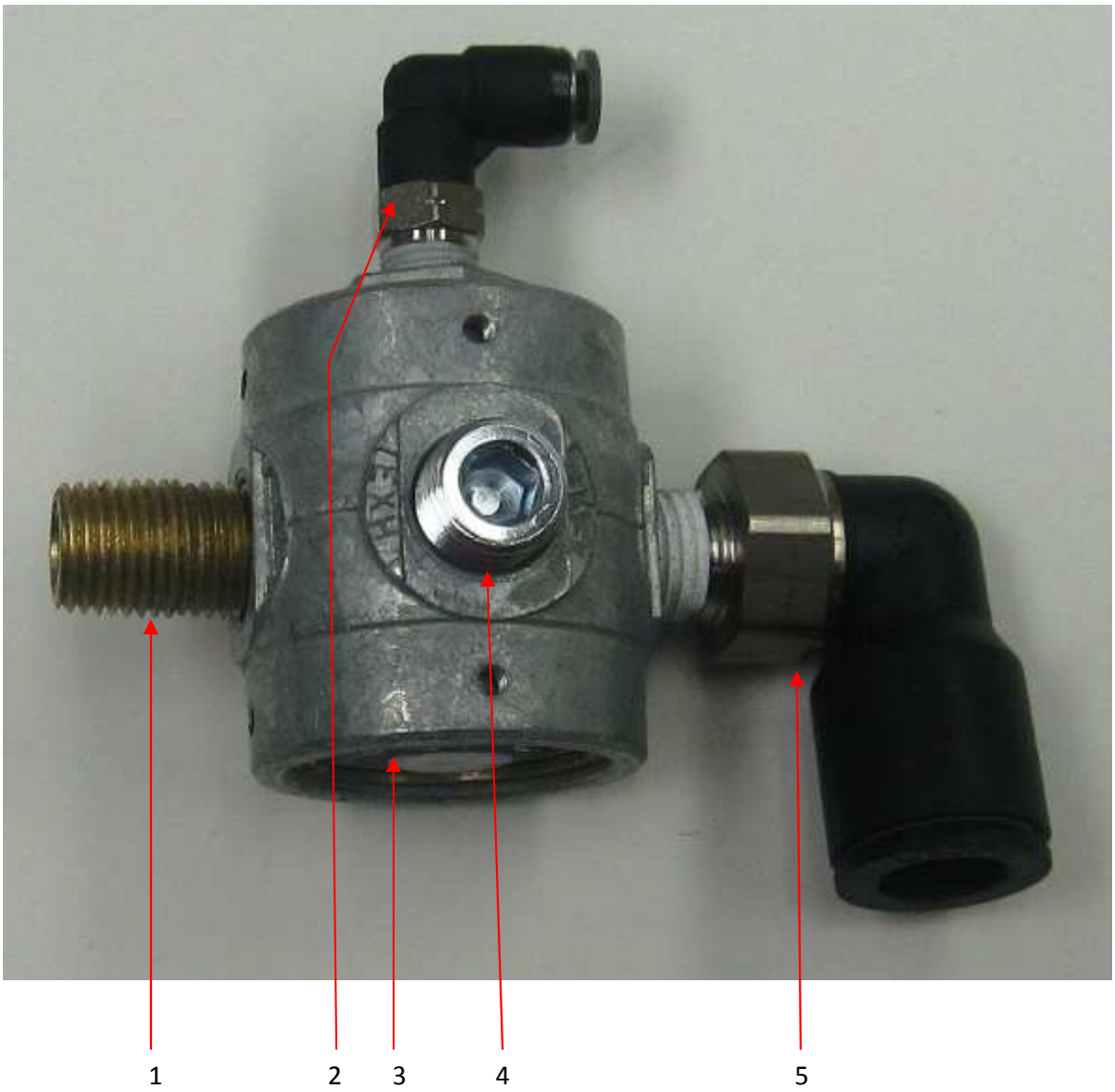
Item #	Part #	Description	Qty.
1	4N0479	MUFFLER-PNEUMATIC EXHAUST, 3/8" MNPT x 1-1/2" Lg, 11/16" Dia.	2
2	169PL-4-6	ELBOW, SWIVEL - 1/4 TUBE x 3/8 MNPT	1
3	4N0476	VALVE-DIRECTIONAL CONTROL, 3/8" NPT PORTS, 5/2	1
4	C20230402	ADAPTER, INCREASER, 5/32T X 1/4 STEM, COMPOSITE	5
5	4N0390	MANIFOLD, BANJO - 1/4 MNPT X (4) 1/4 T	2
6	6-4PTR-S	REDUCER, PIPE THREAD 3/8 NPTM x 1/4 NPTF	2
7	639PL-4	PLUG, 1/4" TUBING	1
8	C24470218	ELBOW, SWIVEL, PUSHLOK - 5/32T X 1/8 MNPT	1

***Valve assembly used on C-100's Serial #179-current**



Control Valves used on C-100's Serial # 100-179

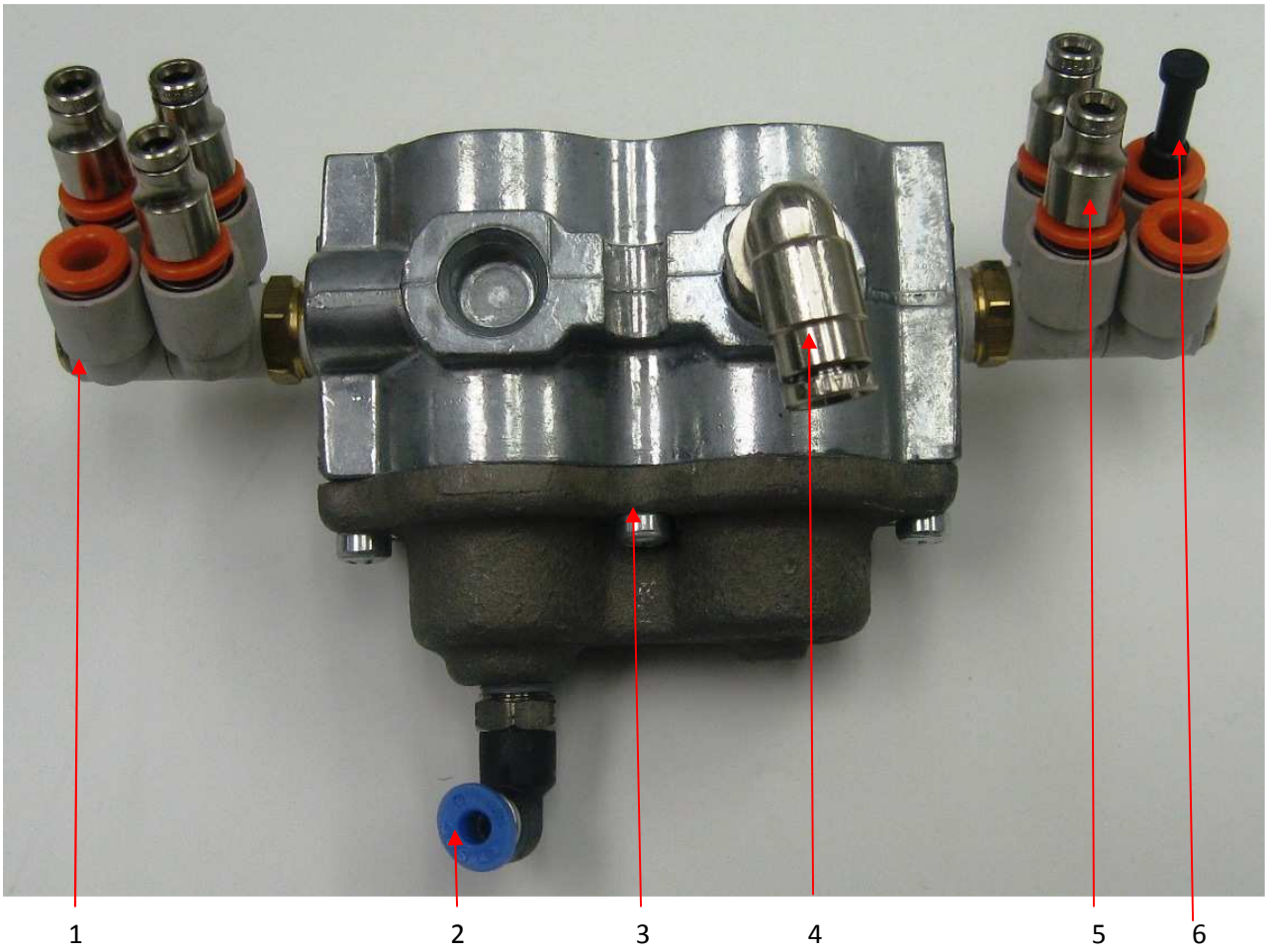
Item #	Part #	Description	Qty.
1	Refer to Page 10	Air Motor Control Valve	1
2	Refer to Page 11	Thumper/Ram-rod/ Ball Valve Control Valve	1



Item #	Part #	Description	Qty.
1	80011-131	NIPPLE,1/4"NPT X CLOSE,BRASS	1
2	C24470218	ELBOW, SWIVEL, PUSHLOK - 5/32T X 1/8 MNPT	1
3	4I0364	Valve, Poppet 2-way - 1/4" NPT	1
4	4HHP-S	PLUG, HOLLOW HEX - 1/4" NPT	1
5	169PL-8-4	ELBOW, MALE SWIVEL 1/2T X 1/4NPT	1

Thumper/Ram-rod/Ball Valve Control Air Valve

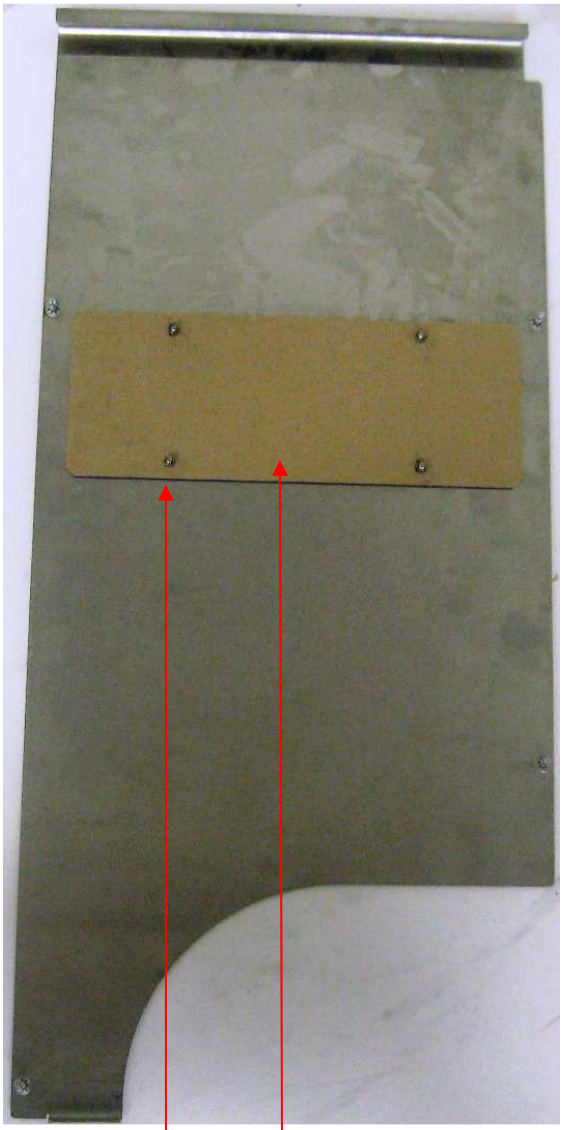
C-100's Serial #'s 100-179



Item #	Part #	Description	Qty.
1	4N0390	MANIFOLD, BANJO - 1/4 MNPT X (4) 1/4 T	2
2	C24470215	ELBOW, SWIVEL, PUSHLOK - 5/32T X 1/8 MNPT	1
3	4I0388	VALVE, PILOT OPERATED 4-WAY	1
4	169PL-4-4	ELBOW, SWIVEL - 1/4 TUBE x 1/4 MNPT	1
5	4N0400	ADAPTER, INCREASER, 5/32T X 1/4 STEM	5
6	639PL-4	PLUG, 1/4" TUBING	1
NS	BH-EF-006	SCREW, BUTTON HEAD CAP - 10-32 X .375" LONG	4

Panels

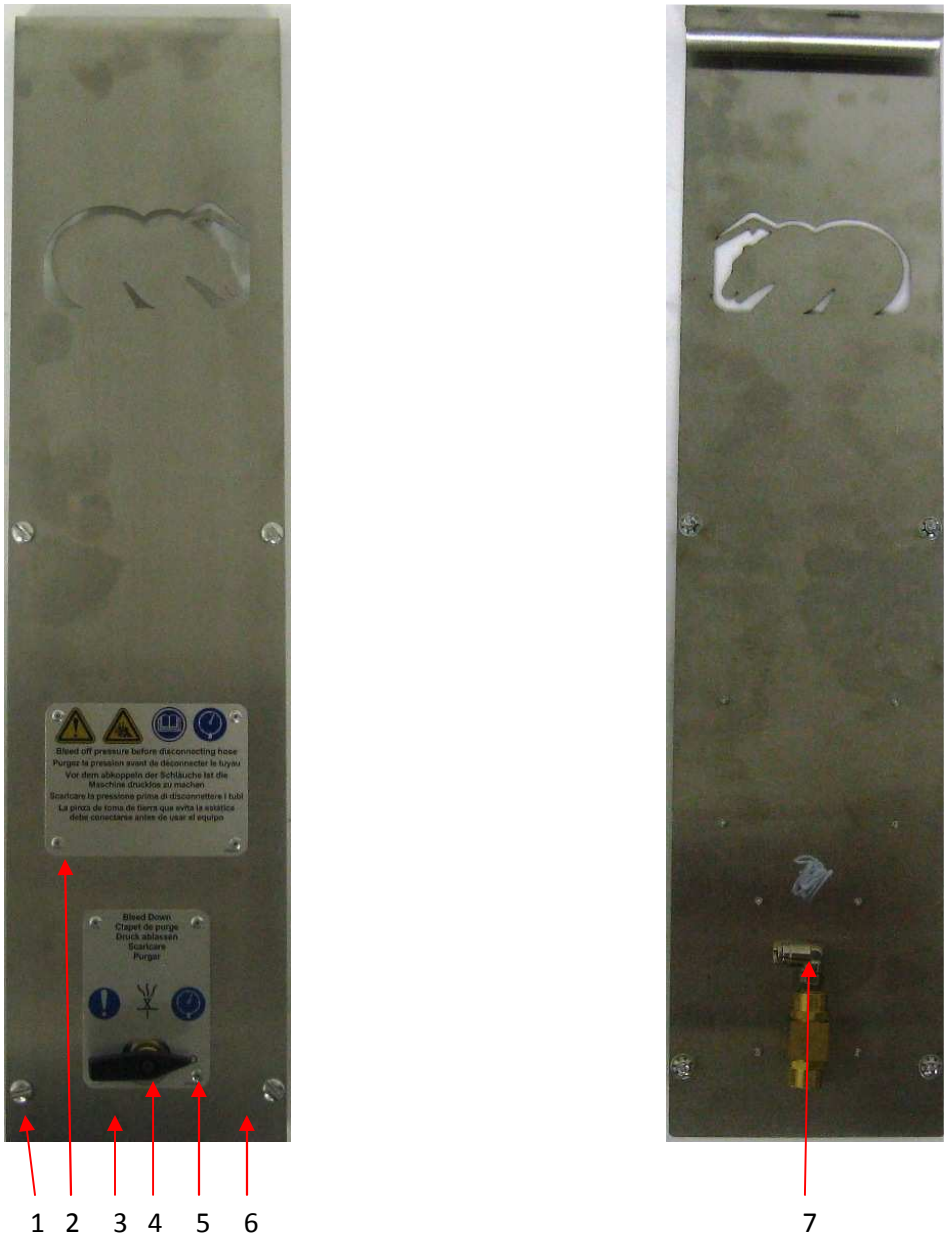
Sides Panels



Part Table on next Page:

Item #	Part #	Description	Qty.
1	4Z0575 4Z0576	STUD, QTR TRN – SLOTTED RETAINER, QTR TRN – M6 STEEL	4 4
2	3J0826-D 3J0827-D	PANEL, SIDE – RH PANEL, SIDE – LH	1 1
3	NL-M5	NUT, NYLOK – M5	4
4	3J0830	BACKER, PANEL CUTOUT – BLUE	1

Front Panel

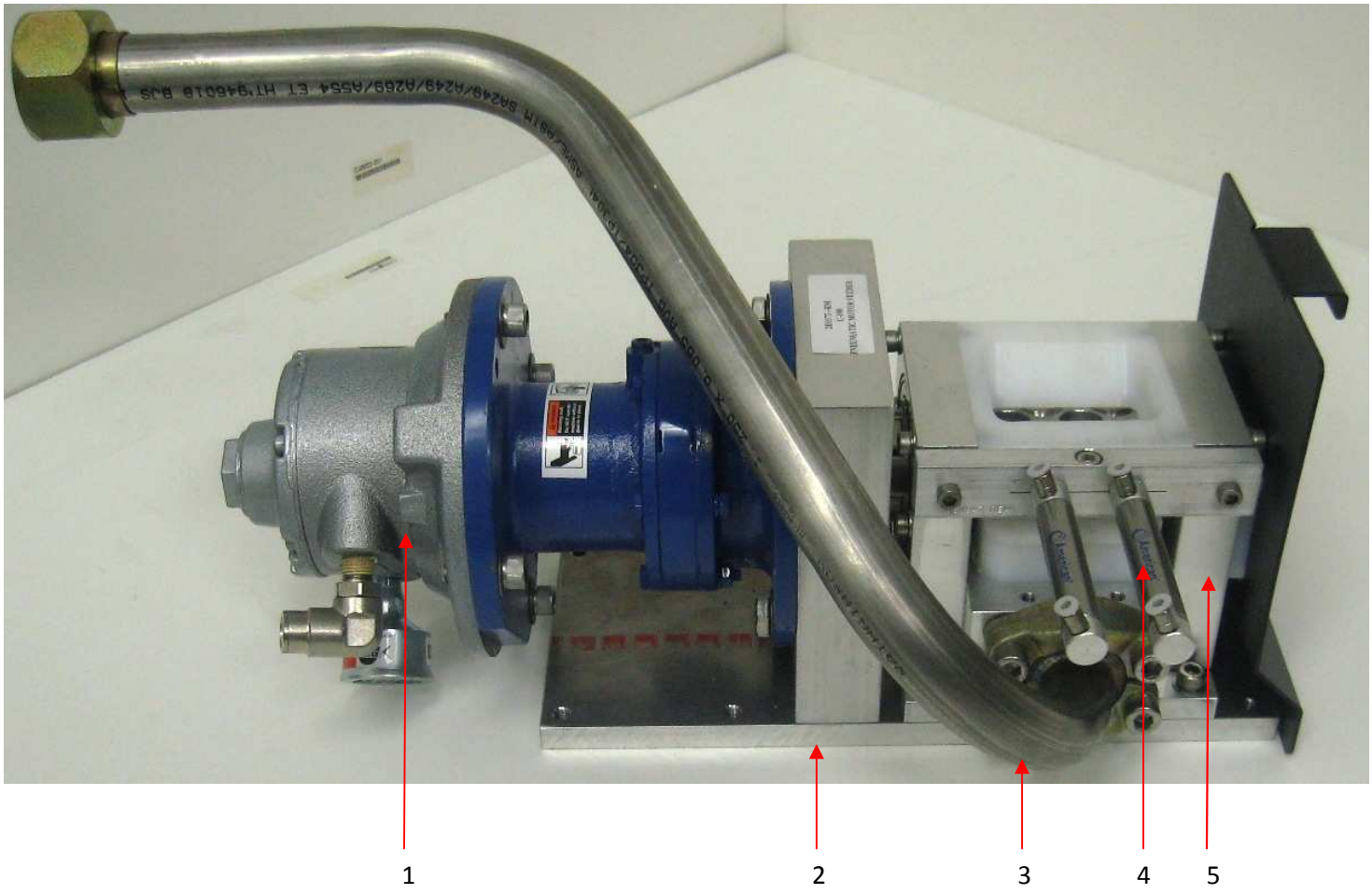


Parts Table on next page:

Item #	Part #	Description	Qty.
1	4Z0575 4Z0576	STUD, QTR TRN – SLOTTED RETAINER, QTR TRN – M6 STEEL	4 4
2	3P0450	LABEL INCOMING AIR	1
3	3P0446	LABEL - BLEED DOWN	1
4	4I0055-A	VALVE, 2 WAY BALL - 1/8" NPTF	1
5	4Z0531	RIVET, ALUM- 1/8" DIA X .262	8
6	3J0828	PANEL, FRONT	1
7	C24470418	FITTING, SWIVEL ELBOW, 1/8" NPT X 1/4" TUBE OD	1

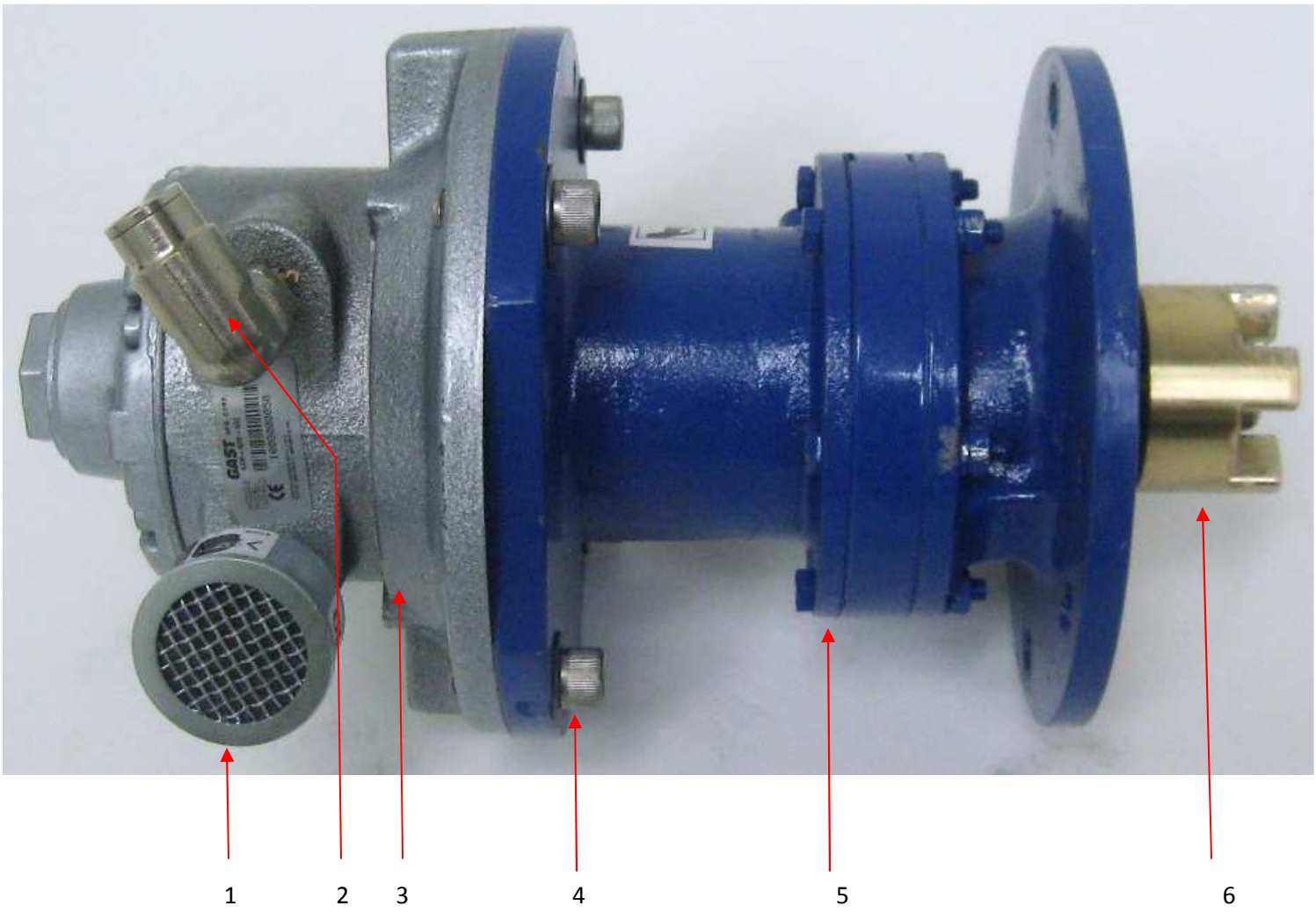
Feeder Assembly C-100

2E0373



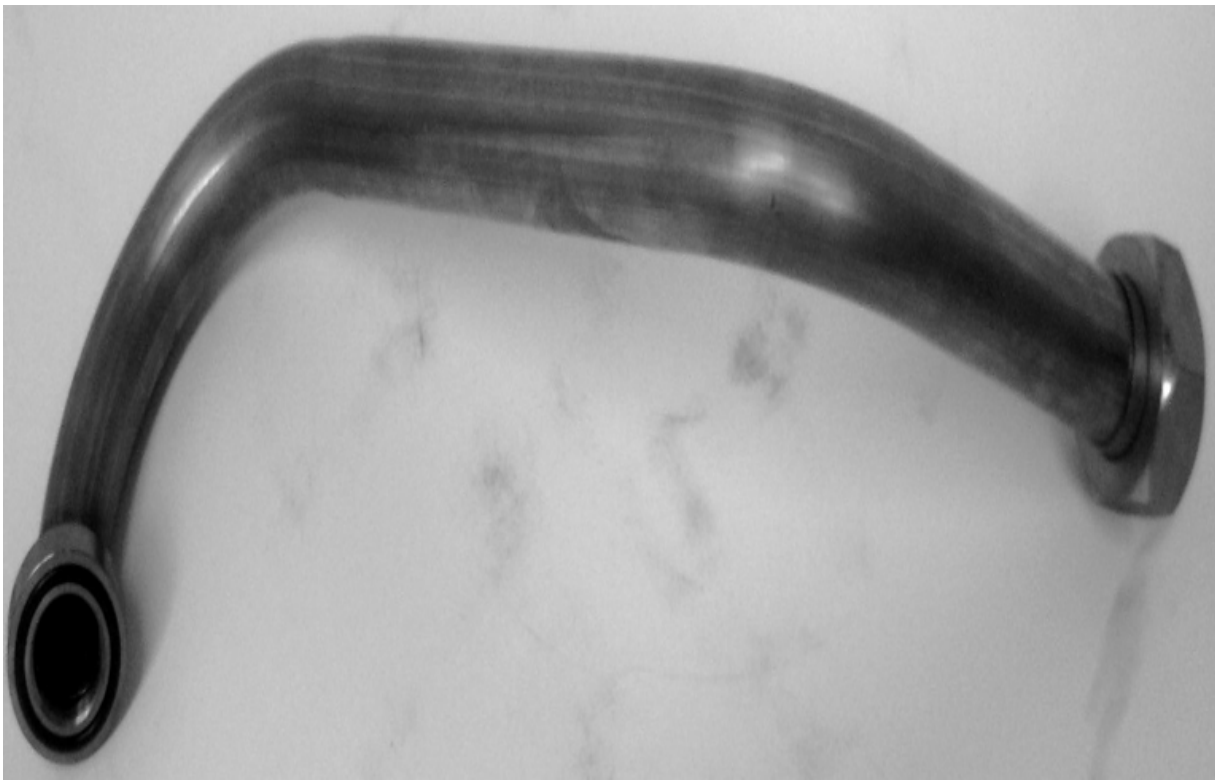
Item #	Part #	Description	Qty.
1	Refer to Page 17	Motor & Gearbox Sub-assembly	1
2	Refer to Page 18	Base Sub-assembly	1
3	Refer to Page 19	Exit Tube	1
4	Refer to Page 20	Ram-rod Sub-assembly	1
5	Refer to Page 21-22	Feeder House Sub-assembly	1

Air Motor & Gearbox



Item #	Part #	Description	Qty.
1	4I0363	Exhaust Silencer, 1/4 MNPT	1
2	169PL-8-4	ELBOW, MALE SWIVEL 1/2T X 1/4NPT	1
3	4I0353	MOTOR, PNEUMATIC – 1.70 HP	1
4	SH-06C-016 WL-06	SCREW, SOCKET HEAD CAP - .375-16 X 1" LONG WASHER, REG LOCK - .375	4 4
5	4E0112	REDUCTION GEAR, 56C FACE - 25:1 RATIO	1
6	3E0993	COUPLER, ROTOR	1
NS	5Z0016 4Z0472	SCREW, HEX HEAD CAP - M10 x 1.5 x 35mm, POLY-LOK PATCH WASHER, BELLEVILLE - .875 OD x .442 ID x .045T **Hardware to attach gearbox to base**	4 4

Item #	Part #	Description	Qty.
1	3E0985	PLATE, BASE - FEEDER	1
2	3E0989	MOUNT, MOTOR	1
NS	SH-M8-025	SCREW, SOCKET HEAD CAP - M8 X 25MM LONG	3
	4Z0255	WASHER, BELLEVILLE - .625 OD x .317 ID x .047 T	4
	4Z0438	WASHER, BELLEVILLE - .500 OD x .255 ID x .038T	8
	5Z0009	SCREW, SOCKET HEAD CAP - M6 x 1 x 25mm, POLY-LOK PATCH	8
	SH-M8-035	SCREW, SOCKET HEAD CAP - M8 x 35mm Lg.	1
		Hardware for Base sub-assembly	



3N0076-A TUBE, OUTLET C-100

Ram-rod sub-assembly

Item #	Part #	Description	Qty.
1	3E0947	Bar, Ramrod	1
2	4I0393	Cylinder, Pneumatic, 9/16 Bore x 2.0 Stroke	2
3	M242A0210	CONNECTOR, 5/32" TUBE X 10-32 M	4
4	5Z0009 4Z0438 WF-M6	SCREW, SOCKET HEAD CAP - M6 x 1 x 25mm, POLY-LOK PATCH WASHER, BELLEVILLE - .500 OD x .255 ID x .038T WASHER, REG LOCK - M6 **Hardware for Ram-rod Sub-assembly**	2 2 4

Feeder Housing Assembly

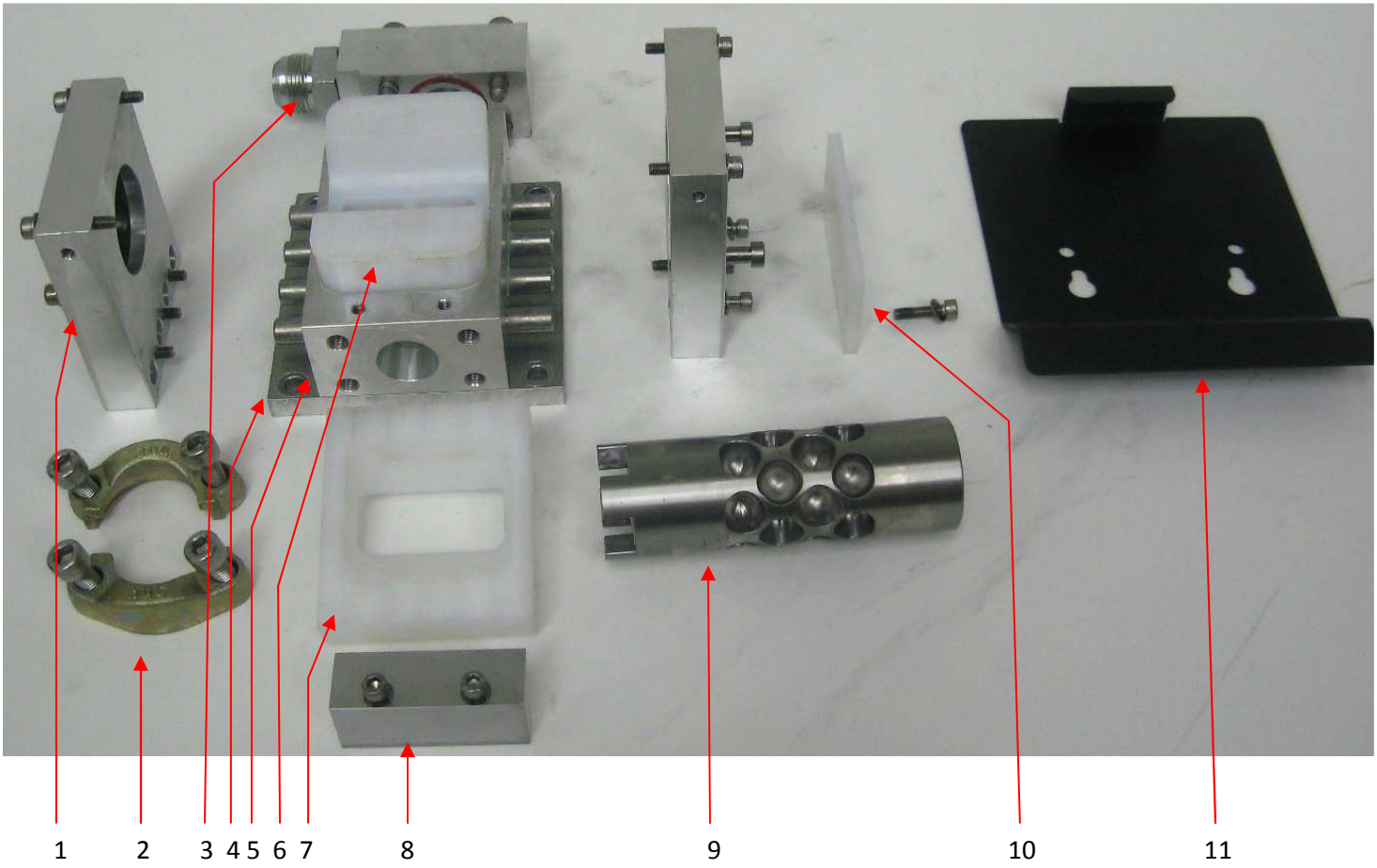
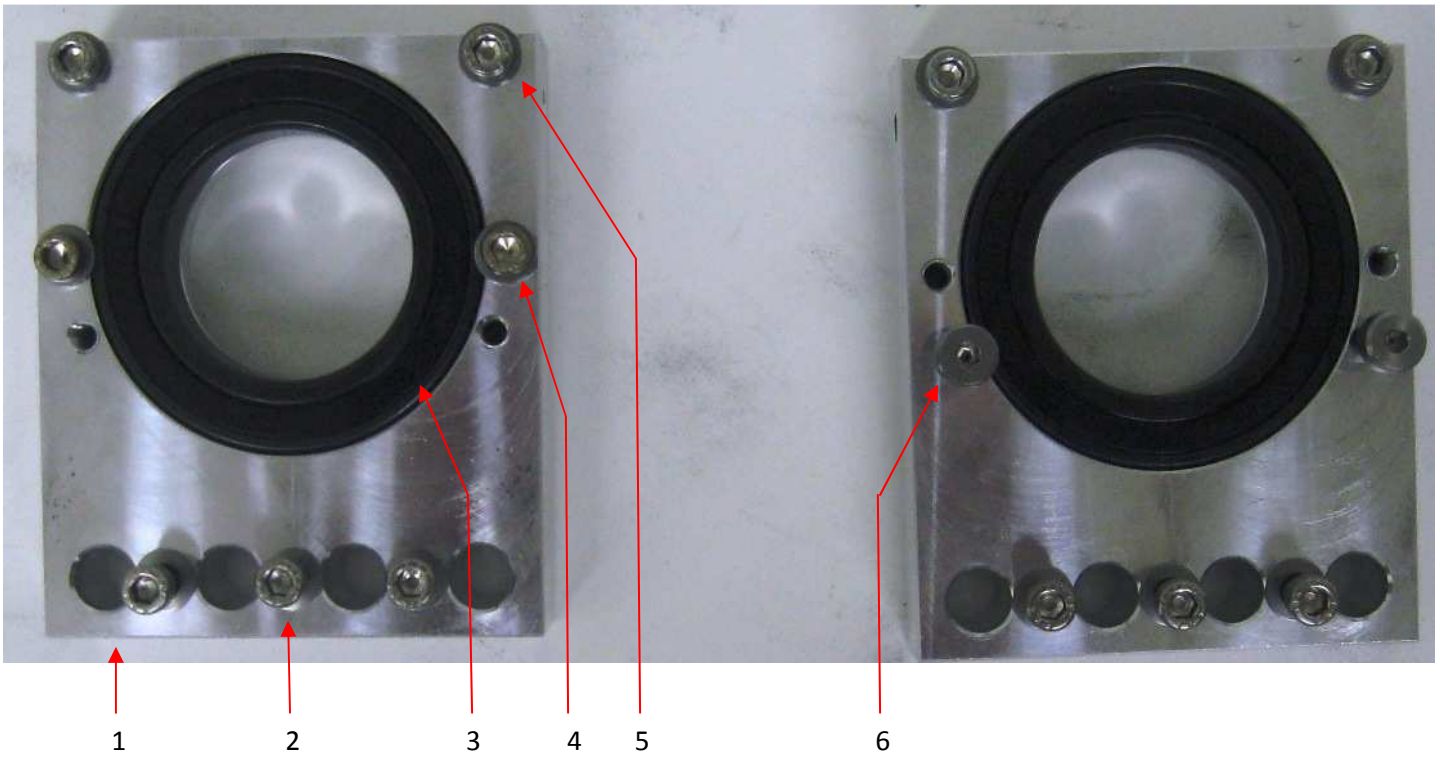


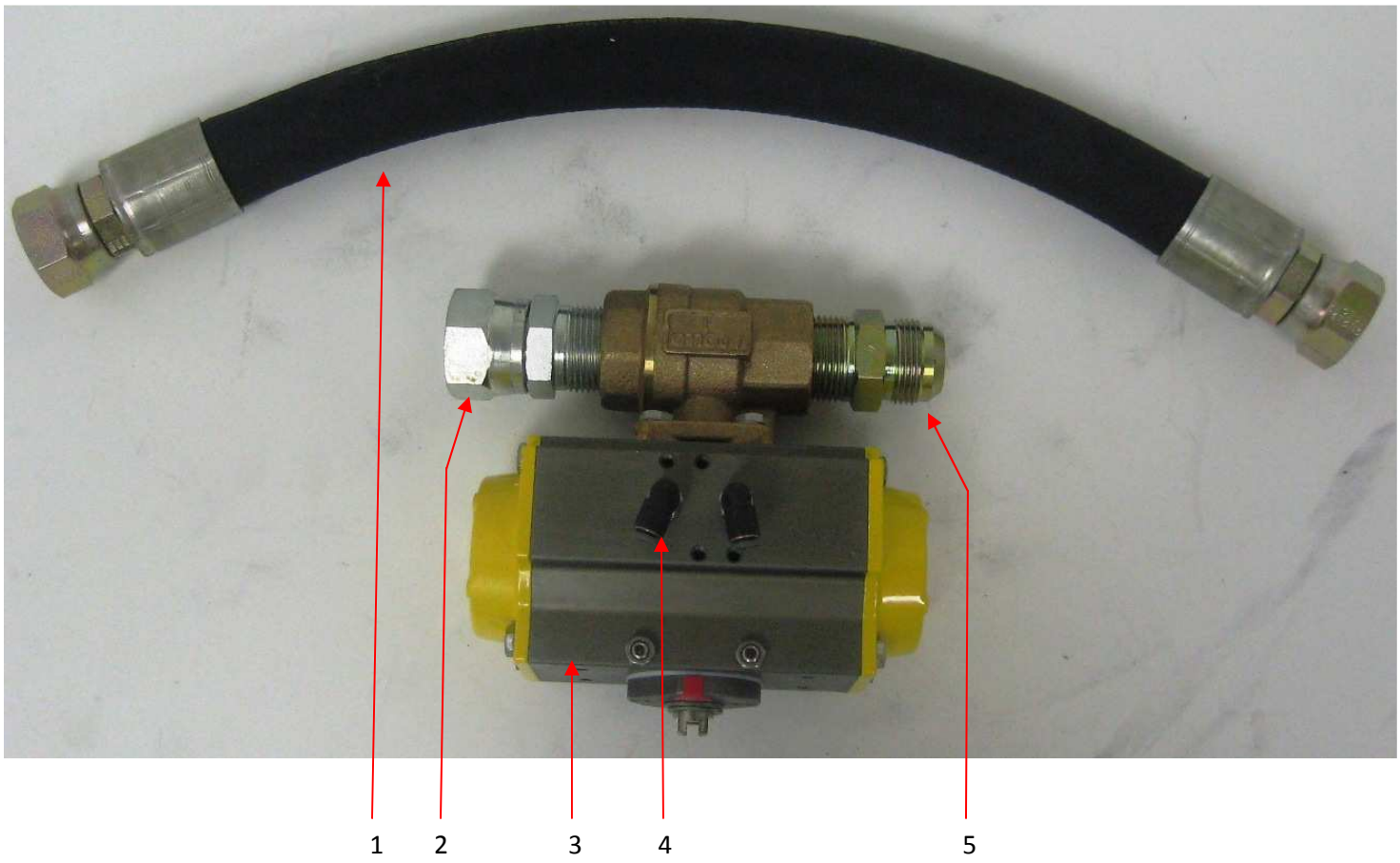
Table of parts on next page

Item #	Part #	Description	Qty.
1	3E0945	PLATE, BEARING, FRONT & REAR, AeRO FEEDER	2
2	4E0124	FLANGE, SAE J518 - CODE 61	1
	SHM10-025	SCREW, SOCKET HD M10x25mm	4
3	16F50X-S	CONNECTOR, STR THD #16 JICM X #16 SAE	1
	3E0988	ADAPTER, FEEDER INLET- 90°	1
	S70-222	O-RING, 70D SILICONE - 1.484 ID X .139 W	1
	5Z0024	SCREW, SOCKET HEAD CAP - M10 x 1.5 x 50mm, POLY-LOK PATCH	4
4	3E0986	PLATE, BASE - AIR BLOCK	1
	5Z0013	SCR, SCH CAP - M8 x 1.25 x 25mm, POLY-LOK PATCH	4
	4Z0255	WASHER, BELLEVILLE - .625 OD x .317 ID x .047 T	4
5	3E0984	BLOCK, AIR	1
	DP-08-032	PIN, DOWEL - .50 X 2" LONG	8
6	3E0815-C	PAD, BOTTOM - LOW PRESSURE	1
	3E1543-A	PAD,BOTTOM - HIGH PRESSURE	1
NS	E80-343	O-RING, 80D ETHYLENE PROPYLENE - 3.725 ID X .21 W	1
7	3E0816B	PAD, TOP	1
8	3E0883	BAR, PAD RETENTION	1
	5Z0012	SCREW, SOCKET HEAD CAP - M6 x 1 x 35mm, POLY-LOK PATCH	2
9	3E0946	ROTOR, 50MM - 7 PPM	1
10	3E0817	PAD, ROTOR WEAR	1
11	3J0887	COVER, FEEDER – PNEUMATIC	1
	5Z0009	SCREW, SOCKET HEAD CAP - M6 x 1 x 25mm, POLY-LOK PATCH	2



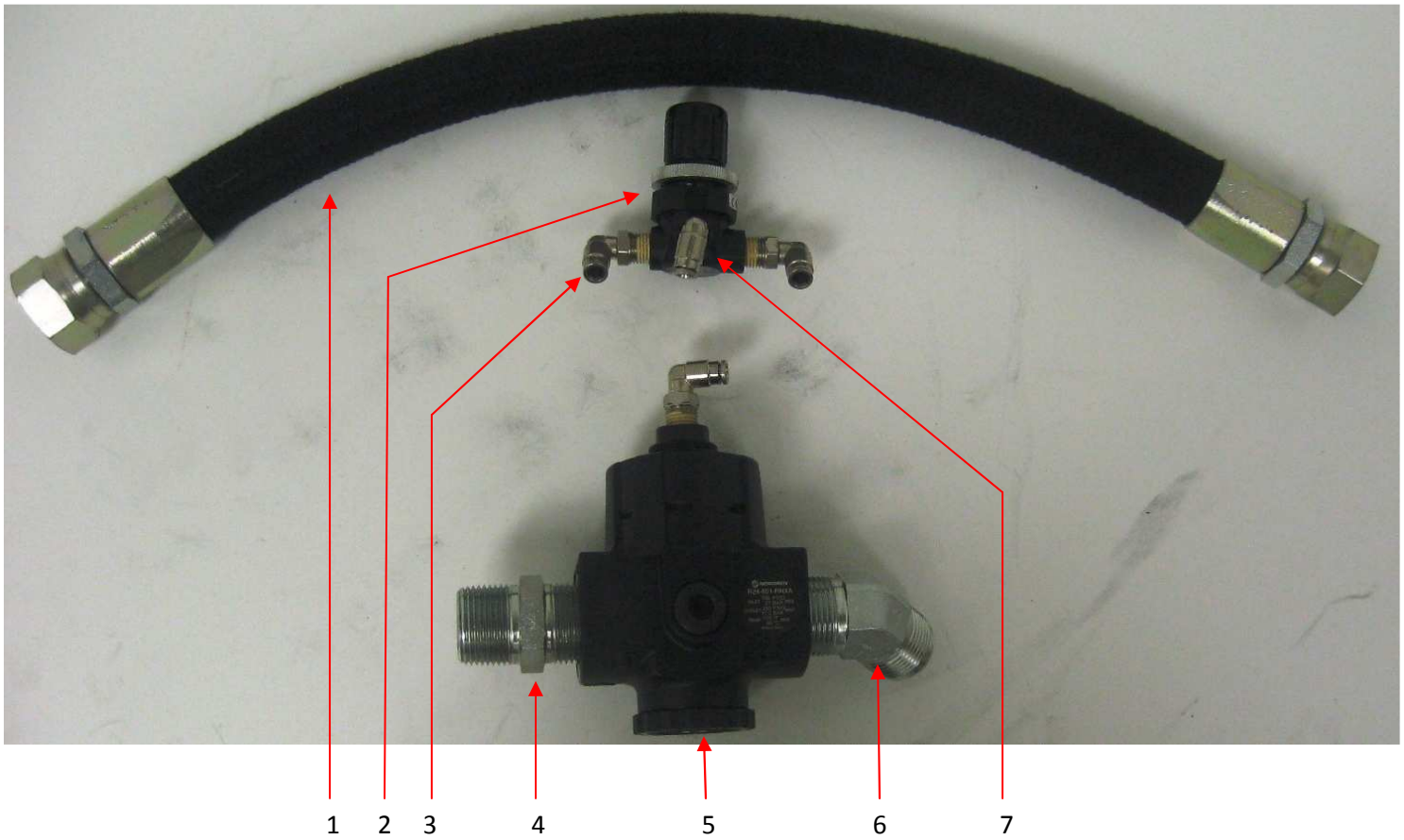
Item #	Part #	Description	Qty.
1	3E0945	PLATE, BEARING, FRONT & REAR, AeRO FEEDER	2
2	5Z0012 4Z0438	SCREW, SOCKET HEAD CAP - M6 x 1 x 35mm, POLY-LOK PATCH WASHER, BELLEVILLE - .500 OD x .255 ID x .038T	6 6
3	4E0088-A	BEARING, BALL - 50mm BORE	2
4	5Z0010	SCREW, SOCKET HEAD CAP - M6 x 1 x 16mm. POLY-LOK PATCH	2
5	5Z0012 4Z0438	SCREW, SOCKET HEAD CAP - M6 x 1 x 35mm, POLY-LOK PATCH WASHER, BELLEVILLE - .500 OD x .255 ID x .038T	4 4
6	SS-M6-08-012	SCREW, SHOULDER - M6 X 8MM OD X 12MM LONG	2

Ball-Valve Air Sub-assembly



Item #	Part #	Description	Qty.
1	5N0048	1" DIA HOSE ASSEMBLY, AIR SUPPLY, 21.5" LONG - END TO END	1
2	16F6X-S	FITTING, 1"MNPT-1"JICF	1
3	4I0416-A	VALVE, ACTUATED BALL	1
4	C24470218	ELBOW, SWIVEL, PUSHLOK - 5/32T X 1/8 MNPT	2
5	16FTX-S	CONNECTOR, 1"JICMx1"NPTM	1

Parts needed to add internal Regulator to C-100



Item #	Part #	Description	Qty.
1	4N0154 4N0439	Connector, Swivel #16 JICF x #16 Hose HOSE, BRAIDED	2 19”
2	4I0367 4I0392	REGULATOR GP - 1/4" PORTS, 0-125 PSI, w/o GA NUT, PLASTIC PANEL	1 1
3	169PL-4-4	ELBOW, SWIVEL - 1/4 TUBE x 1/4 MNPT	3
4	16FF-S	NIPPLE, HEX PIPE - 1.00 MNPT	1
5	4I0306	Regulator, Pilot Operated 1" NPT	1
6	16VTX-S	ADAPTER, 1" MNPT X 1" MJIC 45 DEG.	1
7	169PL-4-2	ELBOW, SWIVEL - 1/4 TUBE x 1/8 MNPT	1
NS NS	4N0173-BLK-A 4N0173-RED-A	TUBING, NYLON - 1/4" OD x .040 W, BLK TUBING, NYLON - 1/4" OD x .040 W, RED	3’ 2’

C-100 Hopper Assembly

2J0187-D

Table next page:

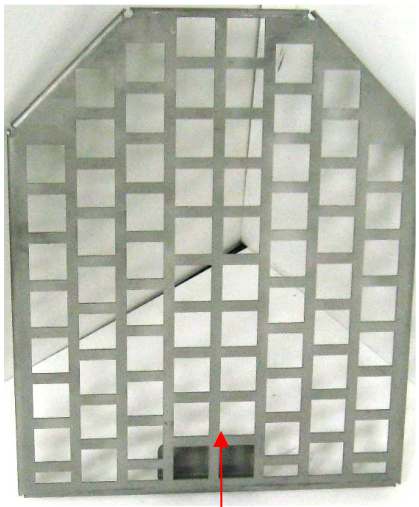
Item #	Part #	Description	Qty.
1	Refer to page 28-29	Lid Sub-assembly	1
2	Refer to page 30	Hopper Sub-assembly	1
3	Refer to page 31-32	Thumper Sub-assembly	1
4	Refer to page 33	Hopper seal Sub-assembly	1

Lid Sub-assembly

Parts Table on next page:

Item #	Part #	Description	Qty.
1	SH-M6-012	SCREW, SOCKET HEAD CAP - M6 X 12MM LONG	2
2	3P0482	LABEL, SAFETY WARNING	1
3	4Z0531	RIVET, ALUM- 1/8" DIA X .262	4
4	2J0225-C	LID, MOLDED - 100# HOPPER	1
5	3P0466-A	LABEL, CONTACT INFORMATION	1
6	4Z0441 4Z0442	Rope, Stainless Steel, 3/64, 270# Crimp, Oval Sleeve, 3/64" Venturi	16” 2
7	SH-M6-016	SCREW, SOCKET HEAD CAP - M6 X 12MM LONG	4
8	WL-M6	WASHER, REG LOCK - M6	4
9	3J0888	PIN, LOCKING - SCREEN	1
10	WF-M6	WASHER, REG FLAT - M6	4

1



2

Item #	Part #	Description	Qty.
1	3J0736-G	HOPPER, C-100	1
2	3J0825-A	SCREEN, HOPPER, C-100	1
N/S	4Z0601	INSULATION, HOPPER	1

Thumper Sub-assembly

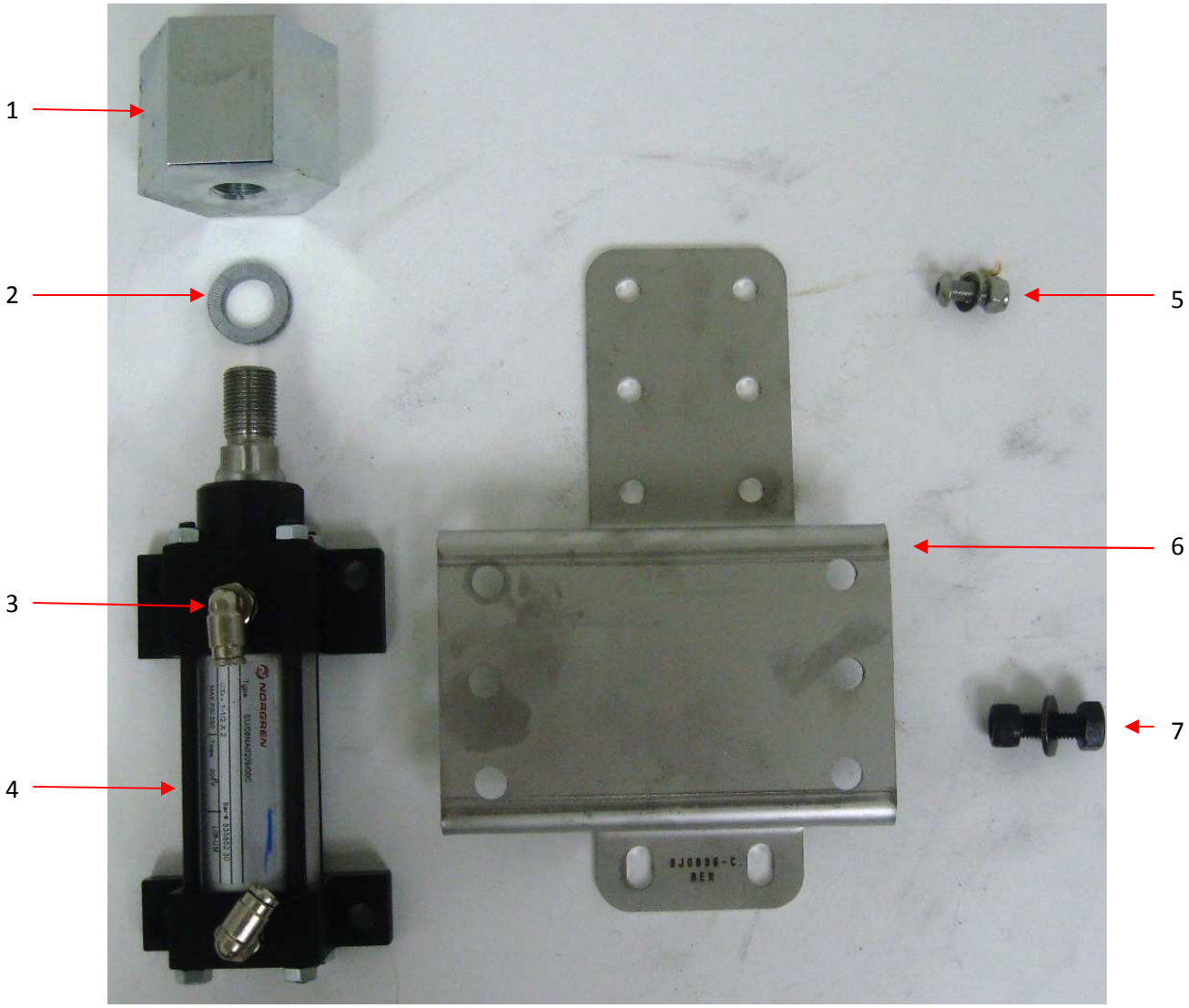
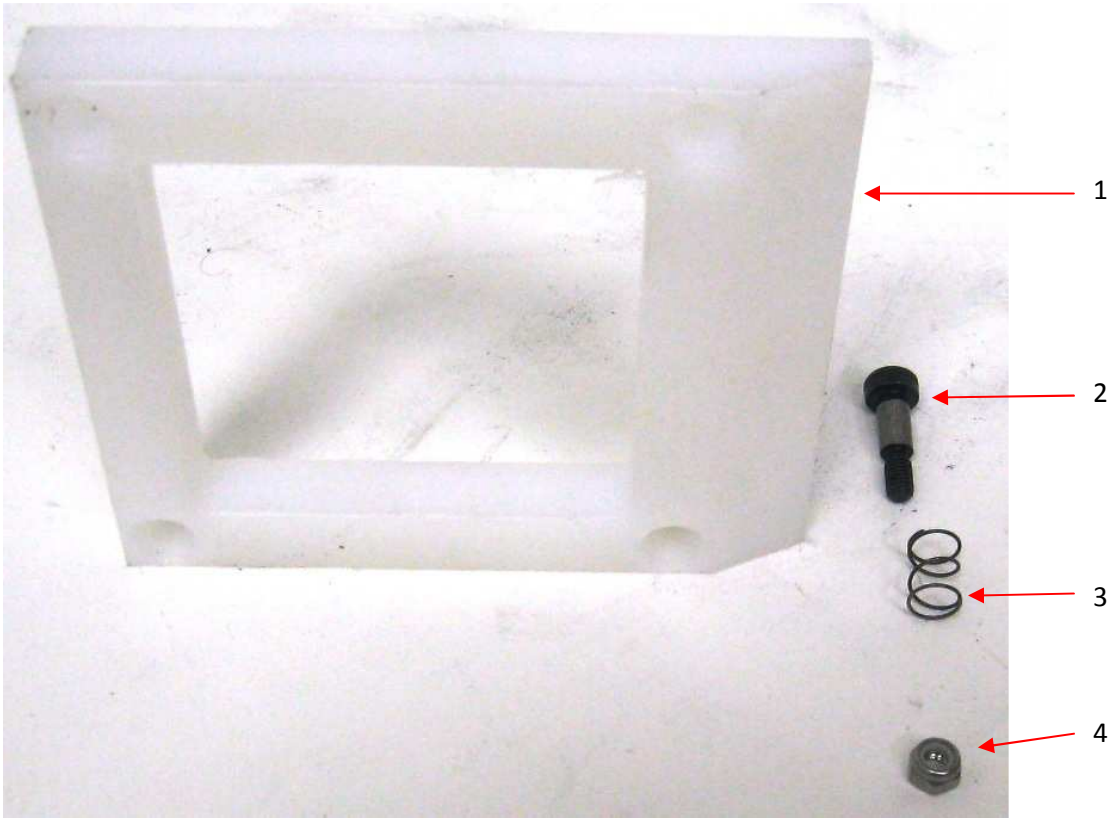


Table on next page:

Item #	Part #	Description	Qty.
1	3J0855-A	THUMPER, WEIGHT	1
2	4Z0547	WASHER, NORD LOCK - 7/16"	1
3	169PL-4-6	ELBOW, SWIVEL - 1/4 TUBE x 3/8 MNPT	2
4	2I0207-A	CYLINDER, THUMPER	1
5	BH-M8-020 4Z0255 NL-M8	SCR, BTNHD CAP - M8 x 1.25 x 20mm WASHER, BELLEVILLE - .625 OD x .317 ID x .047 T NUT, NYLOK - M8 **Hardware for bracket to hopper**	8 8 8
6	3J0836-A	BRACKET, THUMPER AND VIBRATOR	1
7	4Z0446 4Z0405 4Z0402	SCR, CLASS 12.9 SCH CAP - M10 x 1.5 x 30mm WASHER, SAFETY SPRING - M10 NUT, CLASS 10 HEX - M10 x 1.5 **Hardware for cylinder to bracket**	4 4 4

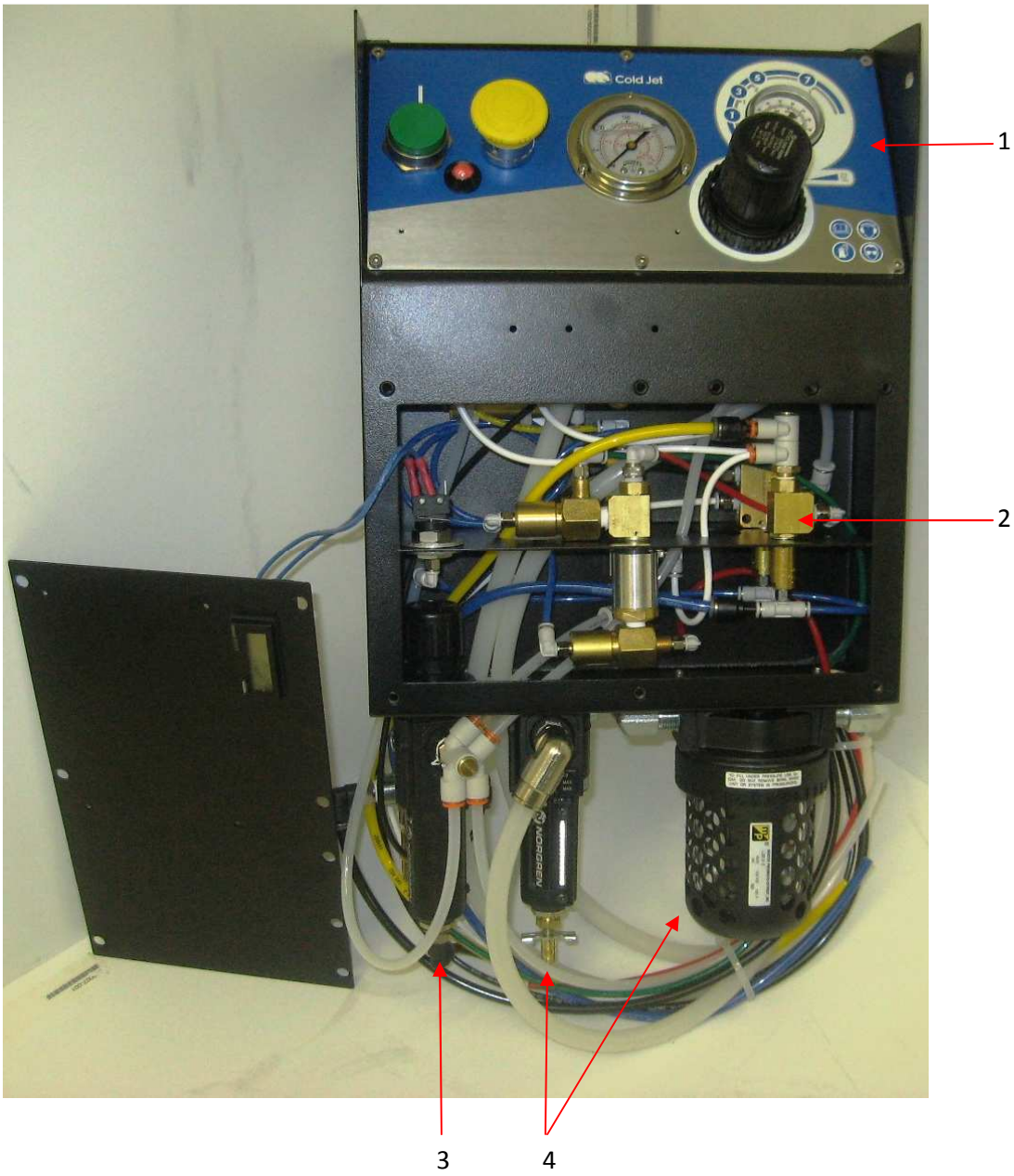
Hopper Seal Sub-assembly



Item #	Part #	Description	Qty.
1	3Z0054	PAD, HOPPER SEAL	1
2	SS-M5-06-012	SCREW, SHOULDER - M5 X 6MM OD X 12MM LONG	4
3	4Z0062	SPRING, COMPRESSION - .360D x .016W x 50L	4
4	NL-M5	NUT, NYLOK - M5	4

Control Box Assembly

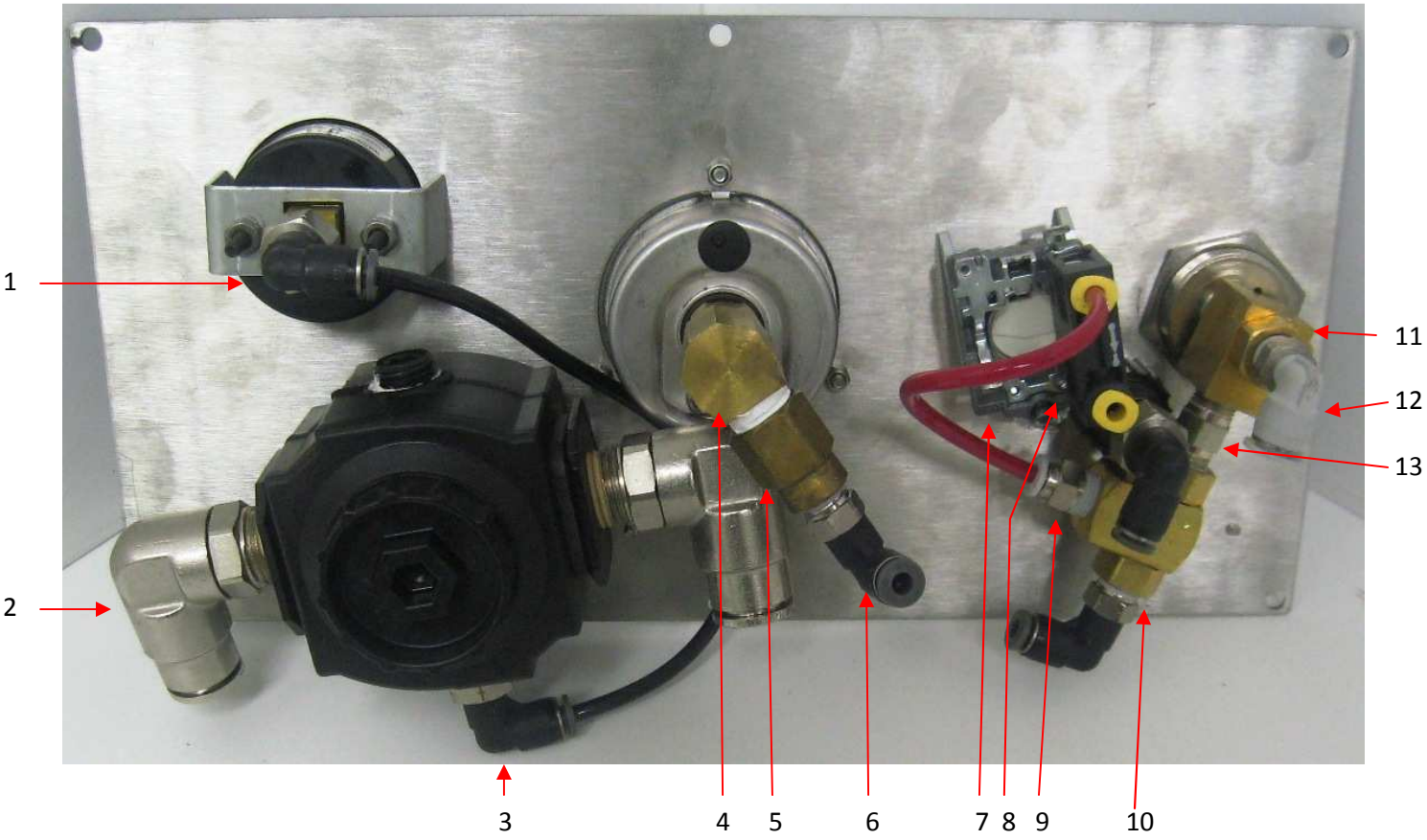
2I0212



Item #	Part #	Description	Qty.
1	2I0213-C	Control Panel Assembly	1
2	No part #	Sub-panel Assembly	1
3	2I0214	Pilot Regulator Assembly	1
4	2I0124	Pilot air filter & Oiler Assembly	1

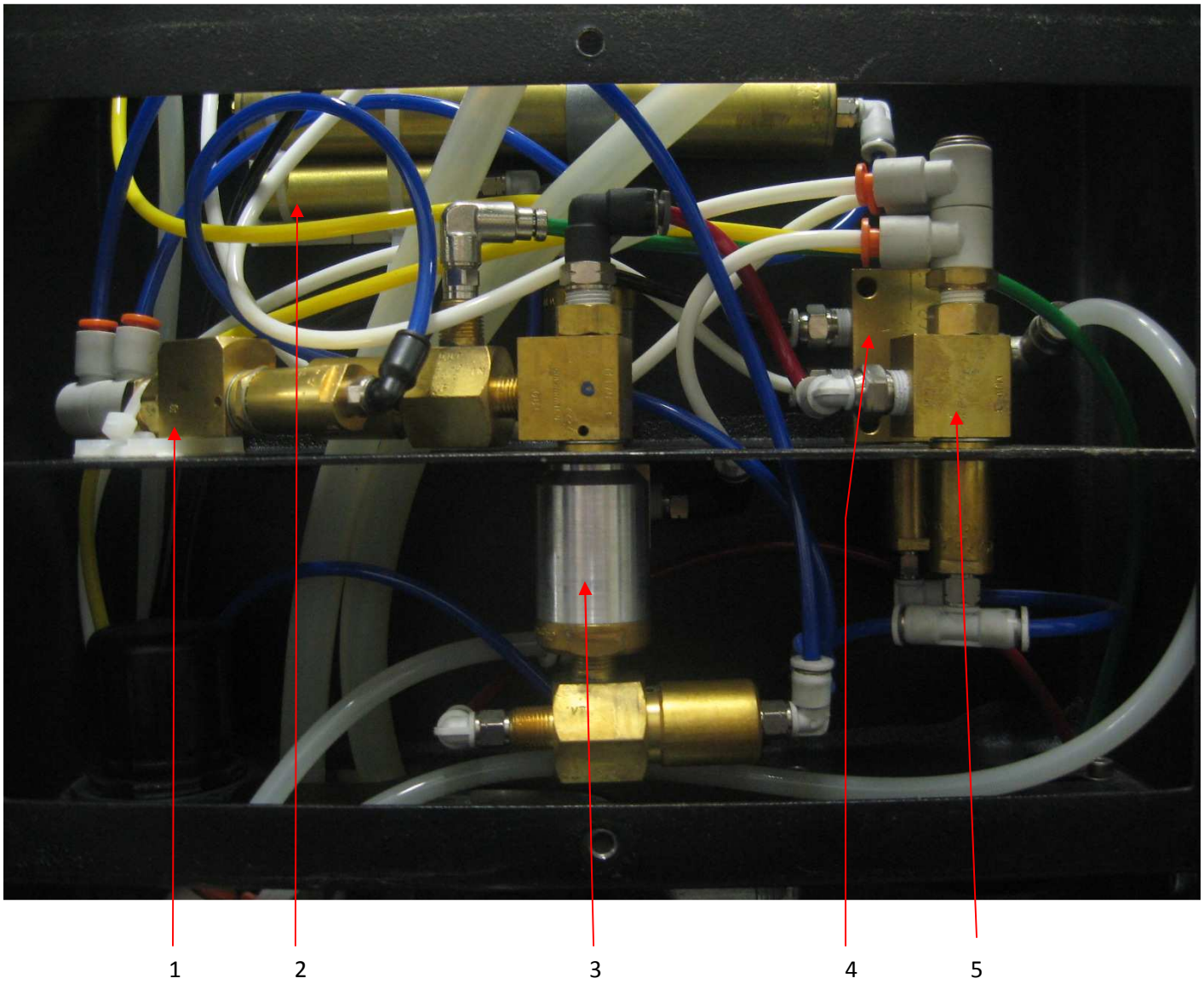
Control Panel Front 2I0213-C

Item #	Part #	Description	Qty.
1	4I0384	PUSHBUTTON, GN, EXTENDED, - 30mm	1
2	70682-002	INDICATOR, ROTOWINK,SMALL	1
3	4G1500	BUTTON, MUSHROOM QUICK STOP YELLOW	1
4	3P0485-A	PLATE, C100 IDENTIFIER	1
5	3P0481-D	PLATE, CONTROL	1
6	4I0268-D PP-M3-006	Gauge, Pnl Mnt Prs 1/4 NPT x 300 PSI/Bar SCREW, PHILLIPS PAN HEAD - M3 x 6	1 3
7	4I0436	PANEL NUT, ALUMINUM - LARGE	1
8	70234-012	REGULATOR,AIR,3/8NPT,5-150 PSIG	1
9	4I0449	GAUGE, PANEL MOUNT, 100 PSI - 1 1/2"	1



2I0213-C Back

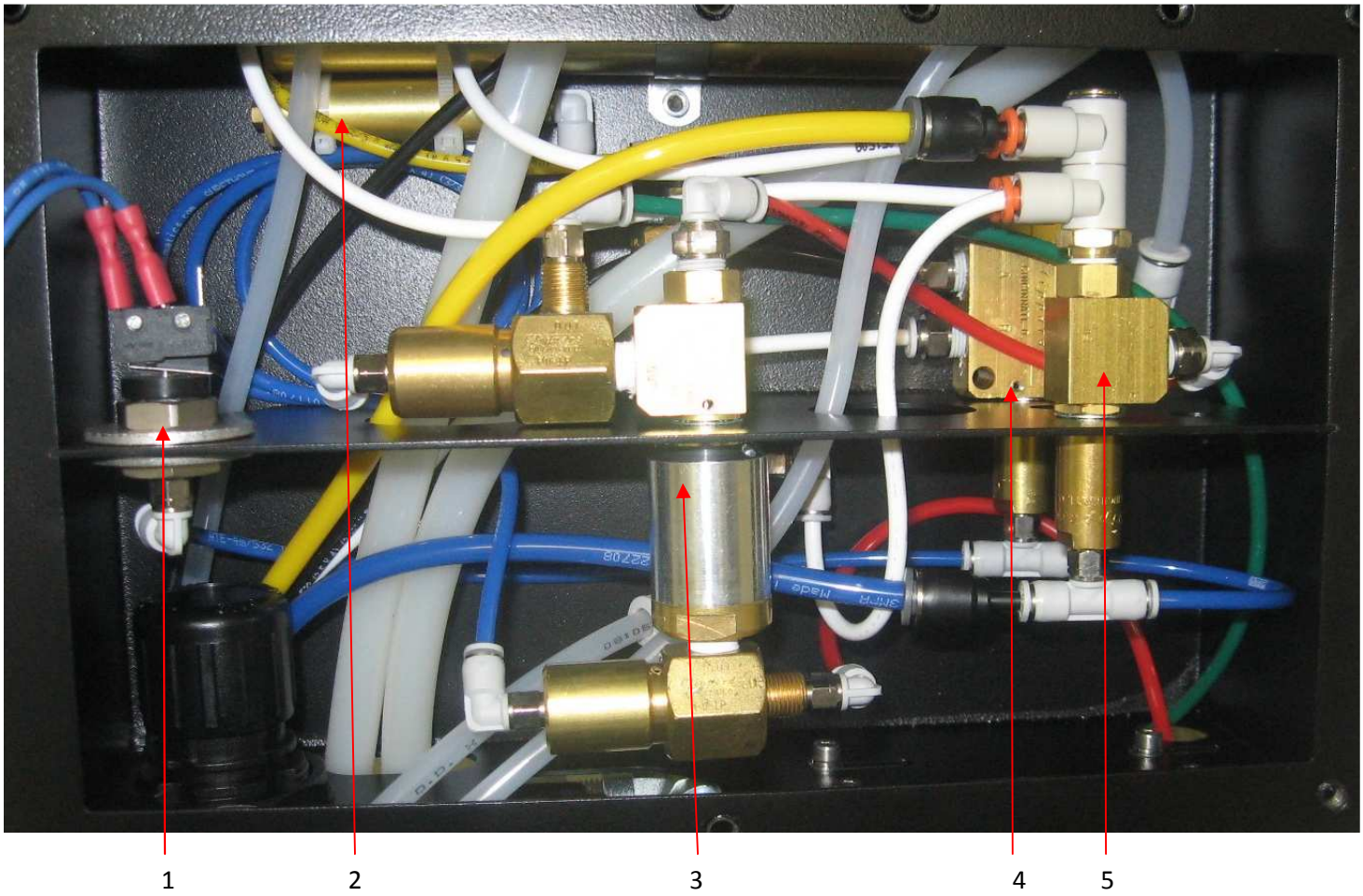
Item #	Part #	Description	Qty.
1	C24480218	FITTING, SWIVEL ELBOW, FEMALE 1/8" NPT X 5/32" TUBE OD	2
2	1244707	1/2" OD T x 3/8" MNPT, SWIVEL MALE ELBOW CONNECTOR	2
3	C24470228	ELBOW, PUSHLOK - 5/32T X 1/4 MNPT	1
4	4N0391	ELBOW, STREET INCREASING - 1/8 MNPT X 1/4 FNPT	1
5	No Part #	4-2Reducer Coupling	1
6	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	2
7	4G1256	Base, Pilot Light	1
8	4I0415	VALVE, SWITCH 3/2 NP	1
9	M24250218	ADAPTOR, STRAIGHT - 5/32" t X 1/8" MNPT, MINI	1
10	4I0376	Valve, Shuttle / OR - 1/8 NPT	1
11	4I0176	VALVE, 3 WAY CLIPPARD W/ MTG HOLES	1
12	M24470418	ELBOW, MALE SWIVEL - 1/4" T X 1/8" MNPT, MINI	1
13	2FF-S	NIPPLE, HEX - 1/8 MNPT	1



Control Valves prior Hour Meter

All valve assemblies pictured and labeled following

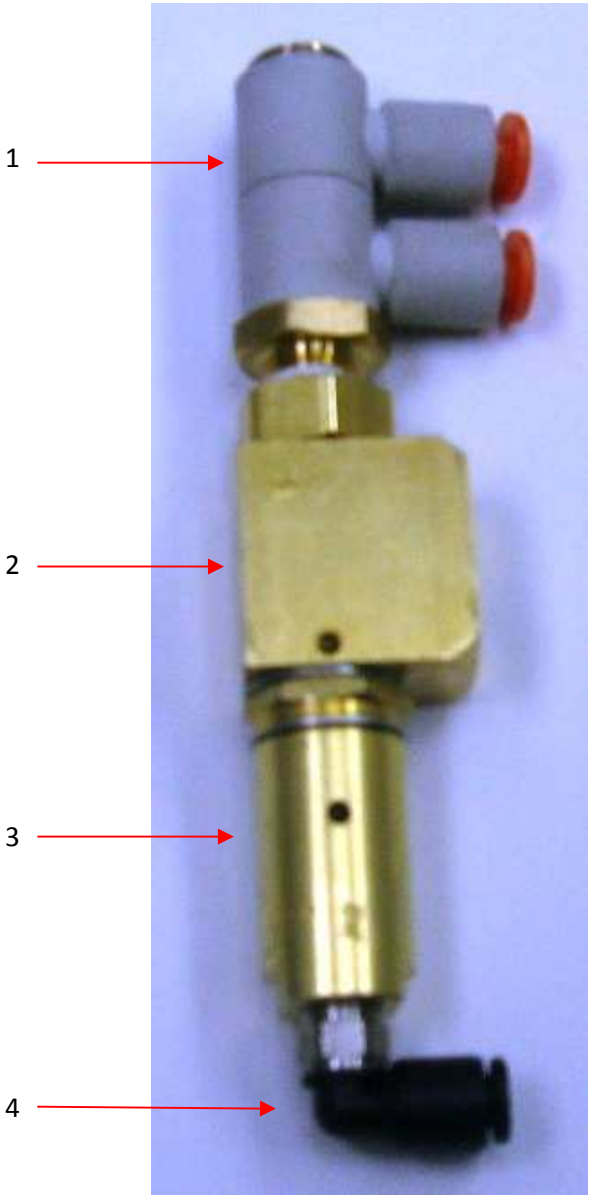
Item #	Part #	Description	Qty.
1	Refer to Page 40	Circuit Dump Valve	1
2	Refer to Page 41	Thumper & Ram-Rod Timing Cylinders	1
3	Refer to Page 42	Thumper & Ram-Rod Timing Circuit	1
4	Refer to Page 43	Ball Valve Control Valve	1
5	Refer to Page 44	Thumper Cycle Start Valve	1
NS	Refer to Page 45	Machine Start Valve, behind Thumper & Ram-Rod Timing Circuit	1



Control Valves Assemblies with Hour Meter assembly

Item #	Part #	Description	Qty.
1	Refer to Page 46	Hour Meter control Actuator	1
2	Refer to Page 41	Thumper & Ram-Rod Timing Circuit Cylinders	1
3	Refer to Page 42	Thumper & Ram-Rod Timing Circuit	1
4	Refer to Page 47	Ball Valve Control Valve	1
5	Refer to Page 48	Thumper Cycle Start Valve	1
NS	Refer to Page 40	Circuit Dump Valve	1
NS	Refer to Page 45	Machine Start Valve	1

Air Pressure Dump Valve



Item #	Part #	Description	Qty.
1	4N0469	FITTING, 2 OUTLET SWIVEL - 5/32" TUBE X 1/8 NPT	1
2	4I0177	Valve, Poppet-NO 3-Way	1
3	4I0206	Actuator, Miniature Pilot 3/8 Bore, Clippard/MPA-3	1
4	M24470210 / 4N0416	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF ELBOW, SHORT, PUSHLOK - 5/32T X 10-32 UNF	1

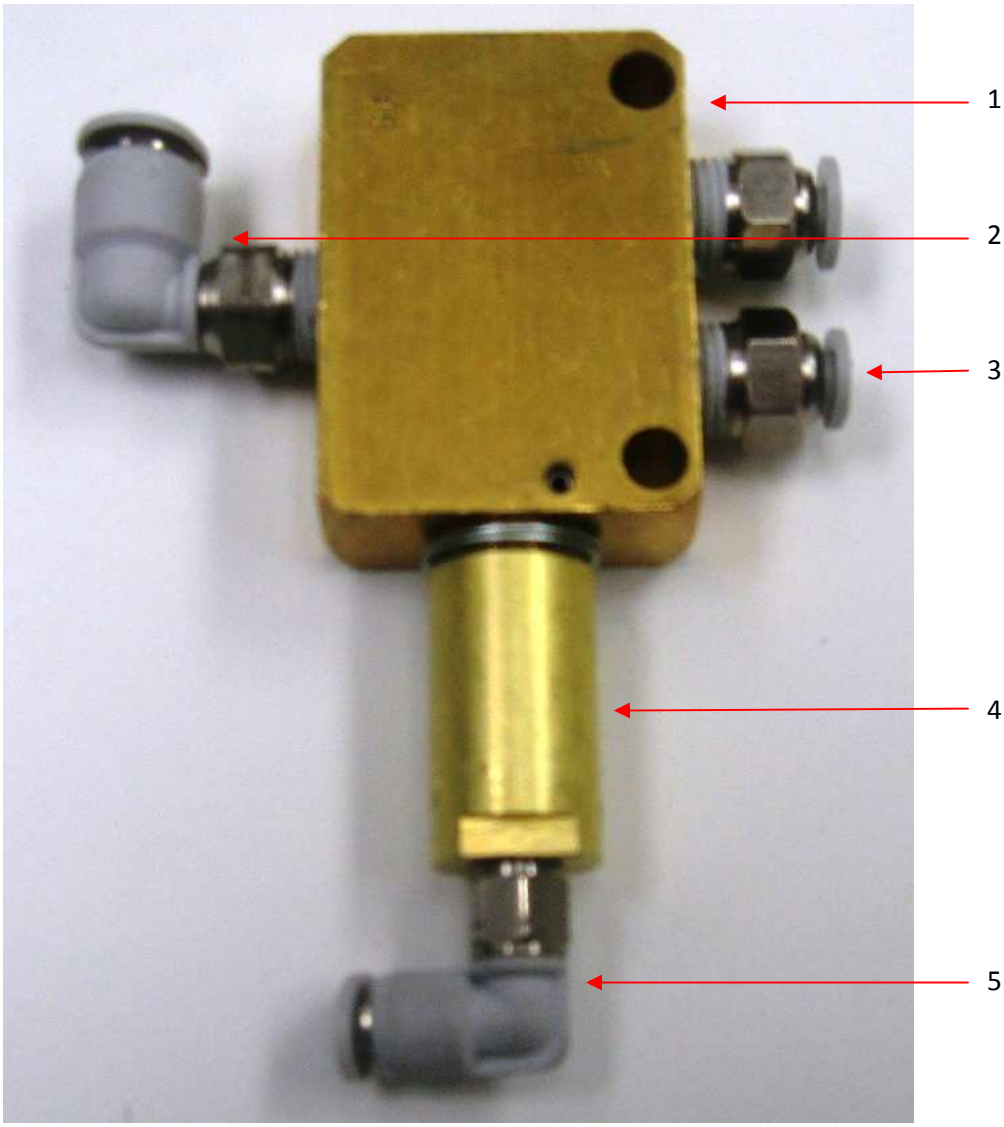
Thumper & Ram-Rod Timing Cylinders

Item #	Part #	Description	Qty.
1	4I0386	VOLUME CHAMBER - 0.5 CU IN	1
2	M24470210	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF	2
3	4I0387	VOLUME CHAMBER - 4 CU IN	1

Thumper & Ram-rod Timing Circuit Valves

Item #	Part #	Description	Qty.
1	M24470210 / 4N0416	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF ELBOW, SHORT, PUSHLOK - 5/32T X 10-32 UNF	4
2	4I0375	Valve, Single Pulse Output - 1/8 NPT	2
3	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	1
4	4I0177	Valve, Poppet-NO 3-Way	1
5	4I0296	Actuator, Miniature Pilot 7/8 Bore	1

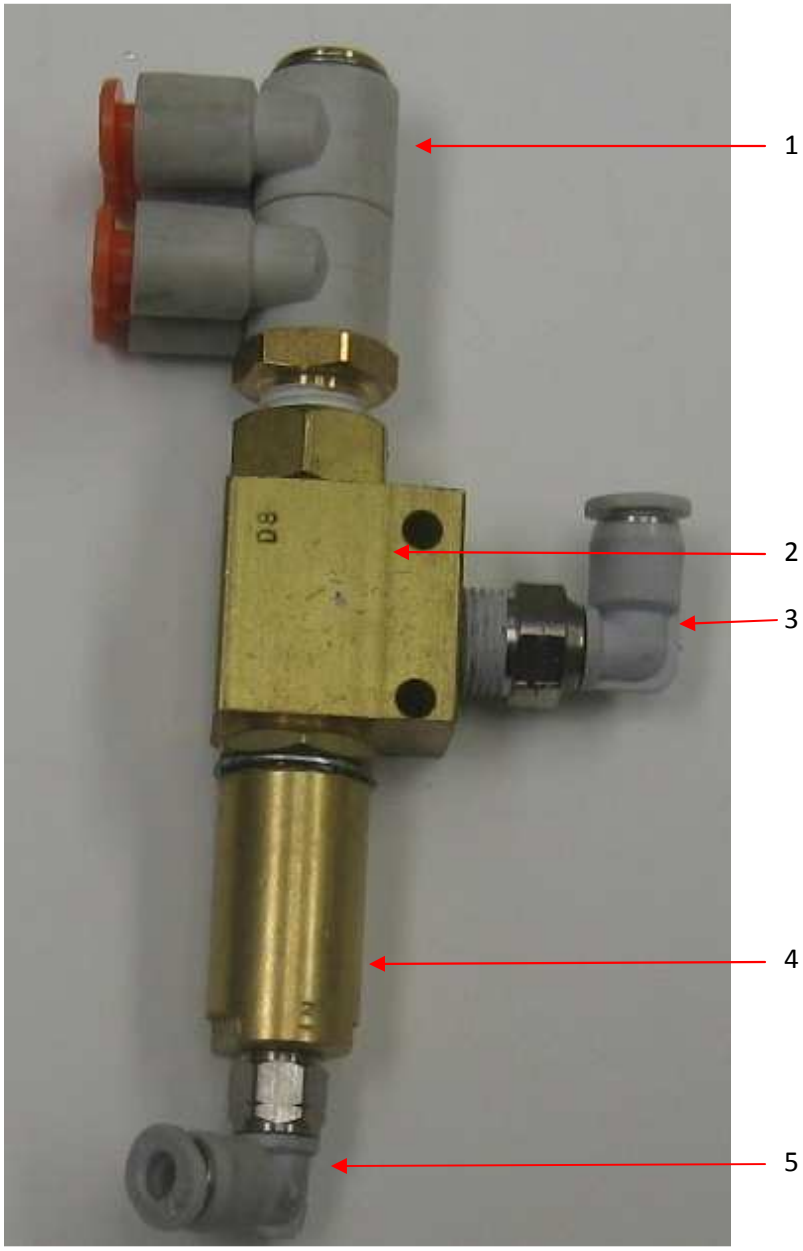
Ball Valve Control Valve



Non-Hour Meter C-100 Version

Item #	Part #	Description	Qty.
1	4I0235	Valve, Spool 4Way x 1/8 NPT	1
2	169PL-4-2	ELBOW, SWIVEL - 1/4 TUBE x 1/8 MNPT	1
3	M24250218	ADAPTOR, STRAIGHT - 5/32" t X 1/8" MNPT, MINI	2
4	4I0206	Actuator, Miniature Pilot 3/8 Bore, Clippard/MPA-3	1
5	M24470210 / 4N0416	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF ELBOW, SHORT, PUSHLOK - 5/32T X 10-32 UNF	1

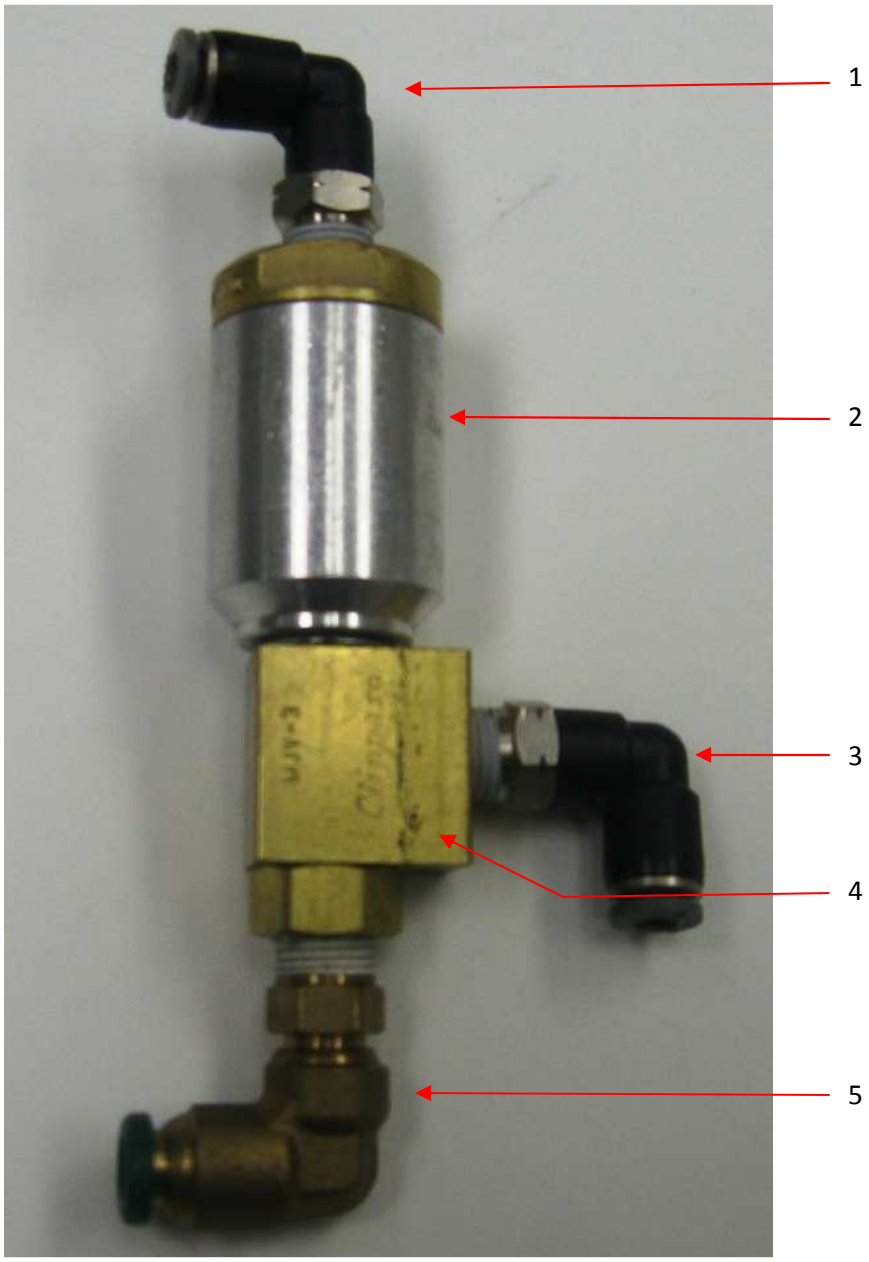
Thumper & Ram-rod Cycle start Valve



Non-Hour Meter C-100 Version

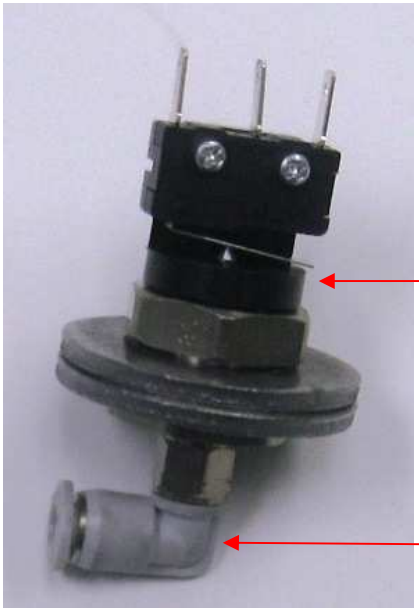
Item #	Part #	Description	Qty.
1	4N0392	MANIFOLD, BANJO - 1/8 MNPT X (4) 5/32 T	1
2	4I0176	VALVE, 3 WAY CLIPPARD W/ MTG HOLES	1
3	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	1
4	4I0206	Actuator, Miniature Pilot 3/8 Bore, Clippard/MPA-3	1
5	M24470210 / 4N0416	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF ELBOW, SHORT, PUSHLOK - 5/32T X 10-32 UNF	1

Machine Start Valve



Item #	Part #	Description	Qty.
1	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	2
2	4I0296	Actuator, Miniature Pilot 7/8 Bore	1
3	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	2
4	4I0176	VALVE, 3 WAY CLIPPARD W/ MTG HOLES	1
5	M24470418	ELBOW, MALE SWIVEL - 1/4" T X 1/8" MNPT, MINI	1

1

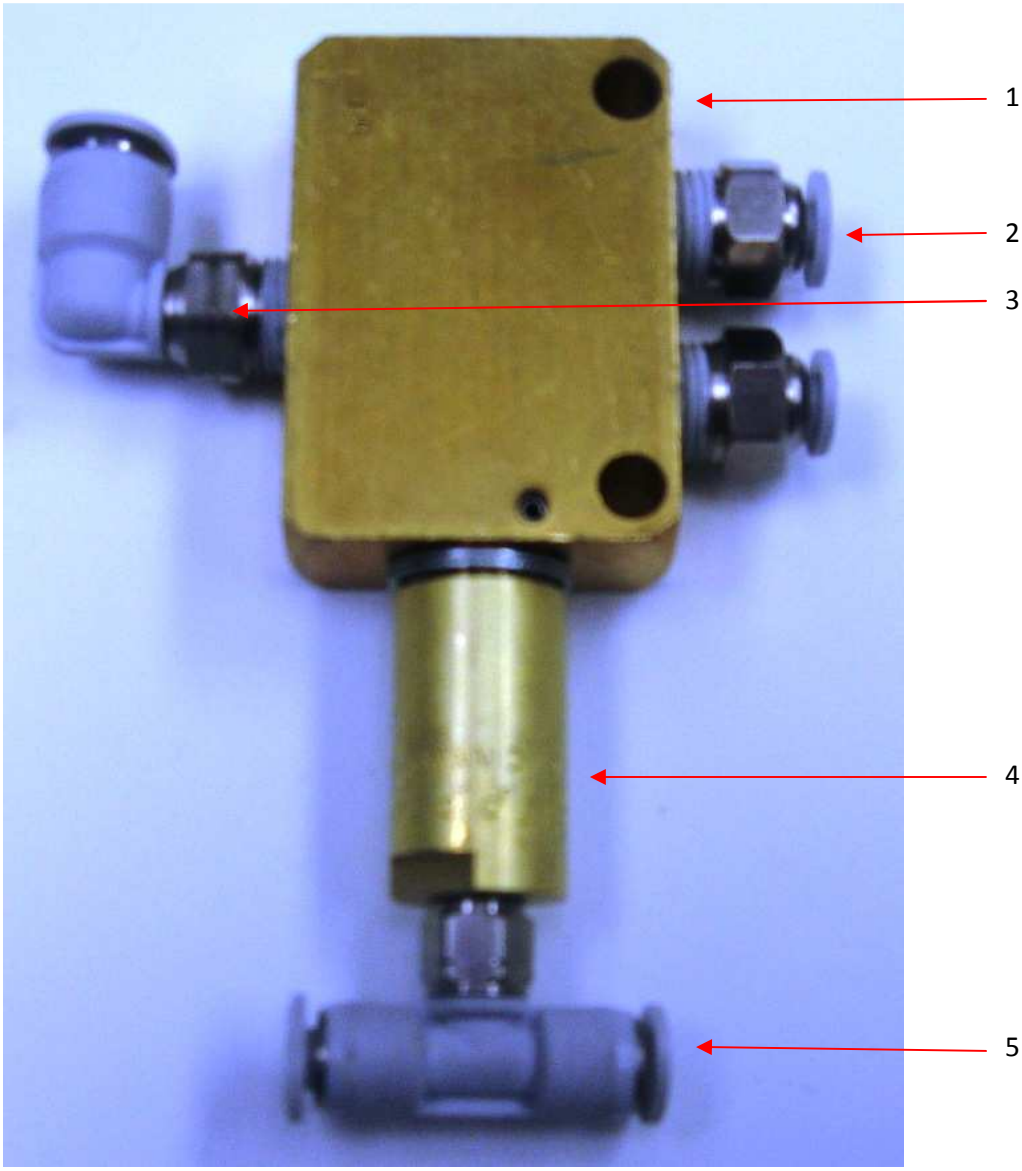


2

3

Item #	Part #	Description	Qty.
1	70077-004	ELAPSED TIME INDICATOR	1
2	4I0448	PNEUMATIC TO ELECTRIC PRESSURE SWITCH	1
3	M24470210	ELBOW, SWIVEL, PUSHLOK - 5/32T X 10-32 UNF	1

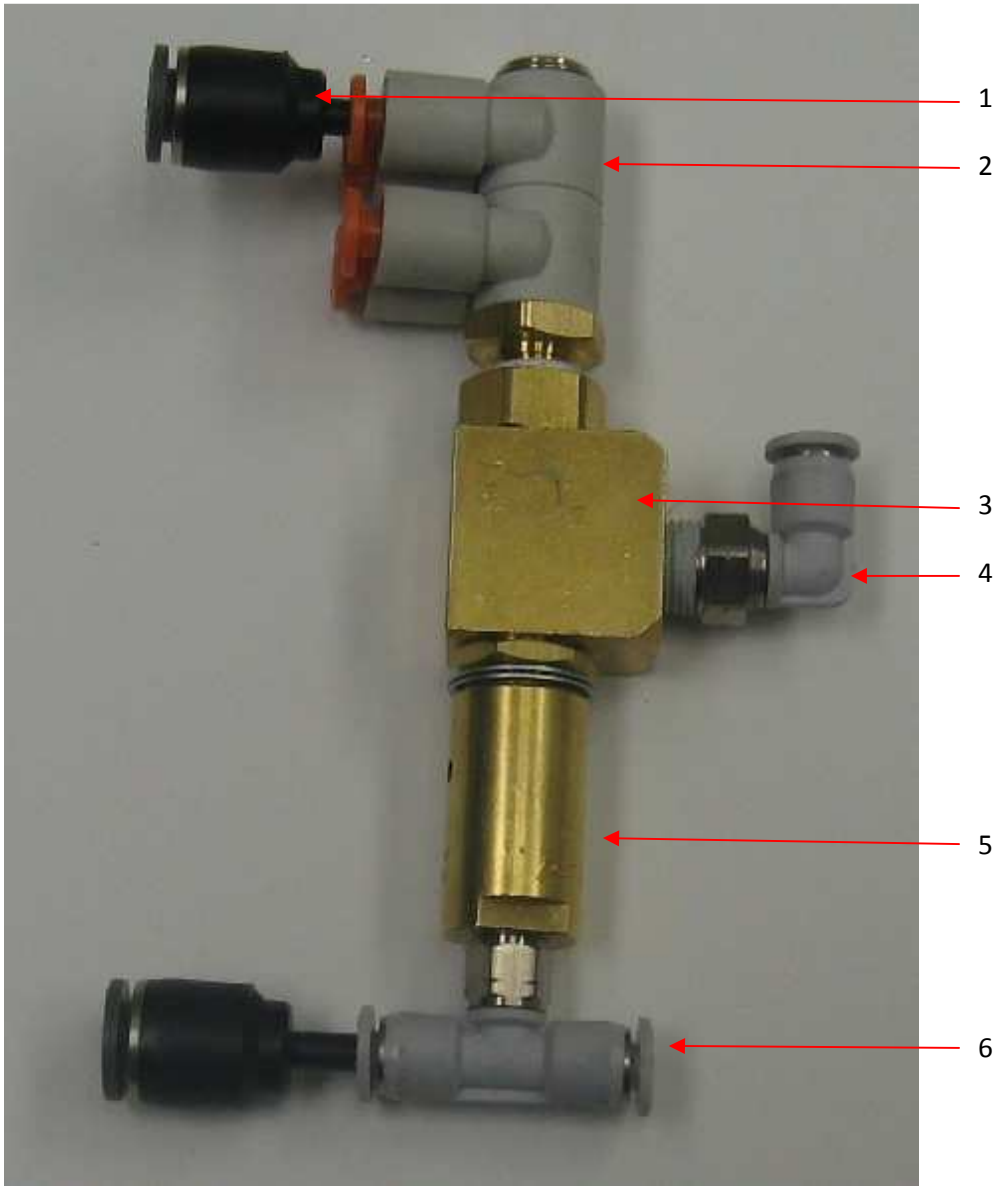
Ball Valve Control Valve



Hour Meter C-100 Version

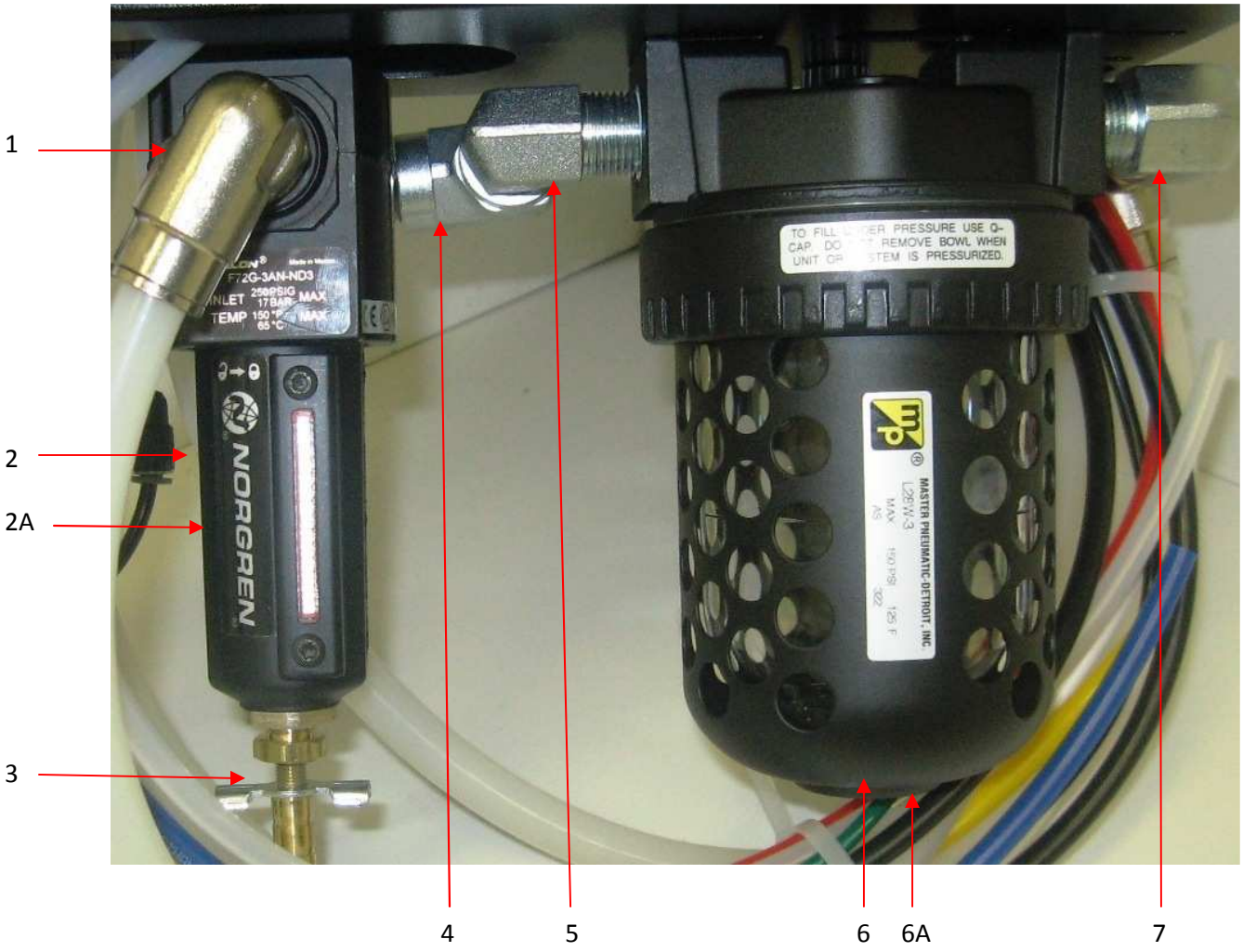
Item #	Part #	Description	Qty.
1	4I0235	Valve, Spool 4Way x 1/8 NPT	1
2	M24250218	ADAPTOR, STRAIGHT - 5/32" t X 1/8" MNPT, MINI	2
3	169PL-4-2	ELBOW, SWIVEL - 1/4 TUBE x 1/8 MNPT	1
4	4I0206	Actuator, Miniature Pilot 3/8 Bore, Clippard/MPA-3	1
5	M24670210	TEE RUNNING, SWIVEL - 5/32" T X 10-32 UNF, MINI	1

Thumper & Ram-rod Cycle start Valve

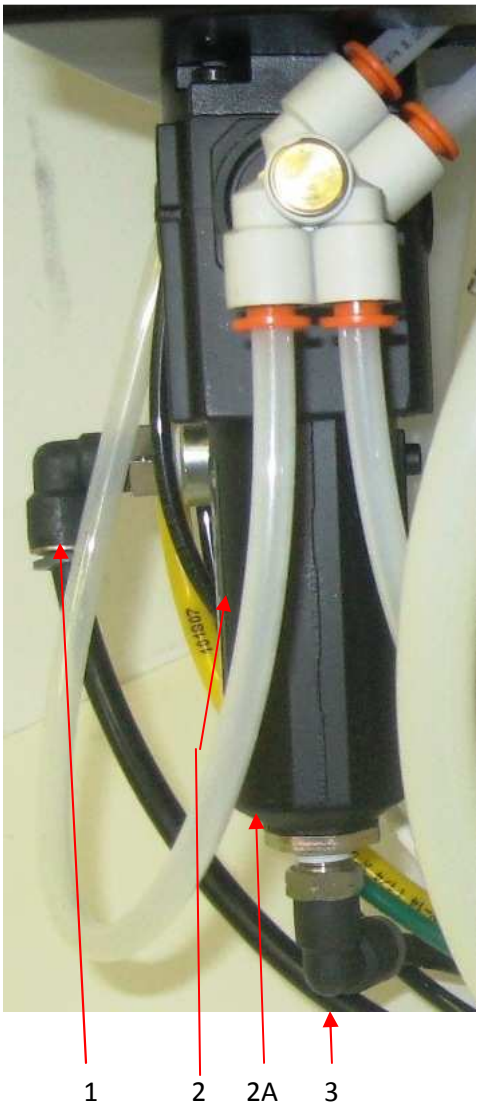


Hour Meter C-100 Version

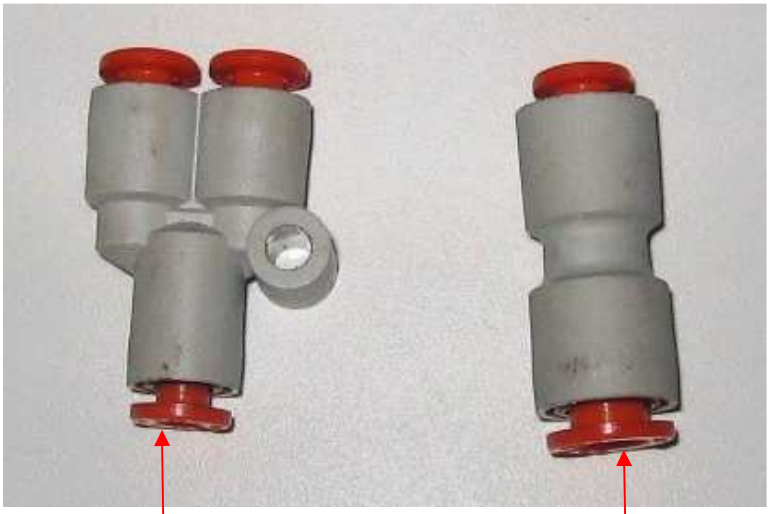
Item #	Part #	Description	Qty.
1	C20230204	STEM EXPANDER, STEM/TUBE, 5/32" TO 1/4" TUBE	2
2	4N0392	MANIFOLD, BANJO - 1/8 MNPT X (4) 5/32 T	1
3	4I0176	VALVE, 3 WAY CLIPPARD W/ MTG HOLES	1
4	M24470218	ELBOW MALE SWIVEL, 5/32" t X 1/8" MNPT, MINI	1
5	4I0206	Actuator, Miniature Pilot 3/8 Bore, Clippard/MPA-3	1
6	M24670210	TEE RUNNING, SWIVEL - 5/32" T X 10-32 UNF, MINI	1



Item #	Part #	Description	Qty.
	2I0124-B	AIR PREP. LUBRICATOR PANEL	1
1	169PL-8-6	ELBOW, MALE SWIVEL 1/2T X 3/8NPT	2
2	5I0011	FILTER-HOLES ADDED IN ELEMENT HOLDER, 3/8" PORTS, 0-150 PSI, W/O GAUGE	1
2A	4I0308	Element, Filter	1
3	4I0435	DRAIN, CONTINOUS - 1/8" NPT	1
4	6DD-S	ELBOW, FEMALE PIPE 3/8 NPTF	1
5	6CR-S	ELBOW, MALE PIPE 3/8 NPTM	2
6	70412-002	LUBRICATOR, AIR LINE	1
6A		Oil, Pneumatic Tool	
NS	SH-M4-008	SCREW, SOCKET HEAD CAP - M4 X 8MM LONG	4
NS	WL-M4	WASHER, REG LOCK - M4	4
NS	WO-M4	WASHER, OVERSIZED FLAT - M4	4
7	6CD-S	FITTING, ELBOW, FEMALE PIPE - 3/8" FNPT	1



Item #	Part #	Description	Qty.
	2I0214	FRL ASSY, CONTROL AIR	1
1	169PL-4-4	ELBOW, SWIVEL - 1/4 TUBE x 1/4 MNPT	1
2	4I0382	FILTER/REGULATOR GP - 1/4" PORT, 0-150 PSI, w/O GA	1
NS	4I0434	NUT, PANEL – PLASTIC	1
2A	4I0308	Element, Filter	1
3	C24470418	FITTING, SWIVEL ELBOW, 1/8" NPT X 1/4" TUBE OD	1
4	C24470228	ELBOW, PUSHLOK - 5/32T X 1/4 MNPT	1
5	4CR-S	Fitting, Elbow male .25 NPTM	1
6	2205P-4	CROSS - 1/4 FNPT	1
7	4I0192A	Valve, Relief 1/4 MNPT X 150 PSI High Flow	1



Item #	Part #	Description	Qty.
1	70563-002	Y-UNION,PUSH FIT,5/32T	
2	4N0449	Fitting, Straight Adaptor - 5/32" to 1/4" Tube	

Tubing

Part #	Description	Lengths
4N0173-BLK-A	TUBING, NYLON - 1/4" OD x .040 W, BLK	25”, 24”
4N0458_BLK	TUBING POLYURETHANE, 5/32" OD, BLACK, SHORE A 98 HARDNESS	38”, 16”, 8”
4N0458_WHT	TUBING POLYURETHANE, 5/32" OD, WHITE, SHORE A 98 HARDNESS	38”, 13”, 13”, 7”
4N0458_YEL	TUBING POLYURETHANE, 5/32" OD, YELLOW, SHORE A 98 HARDNESS	9”
4N0404-WHT	TUBING, NYLON - 1/2" OD x .062 W, WHT	26”, 37”, 31”
4N0458_RED	TUBING POLYURETHANE, 5/32" OD, RED, SHORE A 98 HARDNESS	6”, 6”, 21”
4N0458_BLU	TUBING POLYURETHANE, 5/32" OD, BLU, SHORE A98 HARDNESS	5”, 10”, 5”
4N0173-YEL-A	TUBING, NYLON - 1/4" OD x .040 W, YEL	21”
4N0173-WHT-A	TUBING, NYLON - 1/4" OD x .040 W, WHT	5”, 15”, 16”, 24”
4N0173-BLU-A	Nylon Tubing - 1/4" OD x .040, Blue	27”
4N0458_GRN	TUBING POLYURETHANE, 5/32" OD, GREEN, SHORE A 98 HARDNESS	26”

REVISION HISTORY		
REV	DESCRIPTION	DATE

FRONT PANEL

MANUAL BLEED VALVE

FILTER CONTROL REGULATOR

FILTER REGULATOR FR-1

WHITE (NATURAL)

RED

PB-2 OFF

YELLOW

BLAST ENABLED PI-1

YES 2

BLUE

PB-1 ON

OR 1

1/4" FEMALE QD BULKHEAD FITTING

5/32" TUBING MALE BULKHEAD FITTING

BLAST APPLICATOR

SAFETY TOGGLE SWITCH

TRIGGER TOGGLE SWITCH

TRIGGER CONTROL SUPPLY BC-1

BLAST CONTROL INPUT, TI

FEEDER CONTROL INPUT, BC-3

5/32" TUBING FEMALE BULKHEAD FITTING

AIR ONLY TOGGLE SWITCH

BLACK

V-2

PULSE 2

V-1

PULSE I

RED

YES I

NOT I

WHITE (NATURAL)

GREEN

WHITE

BLACK

BLAST CONTROL VALVE VLV-3

THUMPER CONTROL VALVE VLV-2

WHITE

BLACK

THUMPER CYLINDER CYL-3

RAMROD CYLINDERS CYL-1, CYL-2

FEEDER SPEED GAUGE G-2

WHITE (NATURAL)

PRV-1

INCOMING PRESSURE GAUGE G-1

FILTER F-1

LUBRICATOR LUB-1

FEEDER SPEED REGULATOR R-2

FEEDER START VALVE VLV-1

FEEDER MOTOR M-1

OPTIONAL

ISOLATION VALVE

BLAST VALVE BV-1

AIRLOCK FEEDER

TO BLAST APPLICATOR

1/2" TUBING
1/4" TUBING
5/32 TUBING

UNLESS OTHERWISE SPECIFIED
.XX ± 1/64
.X ± .1
.XX ± .01
.XXX ± .005
ANGLES ± .5°
SURFACES 125

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Cold Jet.

TYPE: D ASSEMBLY

TITLE: BLASTING UNIT, INDUSTRIAL PNEUMATIC

MATERIAL:		STOCK SIZE: -	WEIGHT:
CREATED BY: mrivir	DATE: 06/23/2007	SUPERSEDES: -	SHEET 4 OF 5
CHANGED BY: -	DATE: -	PART NUMBER: 2A0155	
APPROVED BY:	DATE: -		REVISION: D

S/N:	**P/N:**	**MFD.:**
DATE TESTED:	**Inspector:**	**PASS / FAIL**
(A) Pressure Test & Settings	Set Control Air Pressure Regulator at 80 PSI.	
	Verify Pressure Relief Valve set at 140 -0/+10 PSI is installed and functional.	
	Pressurize unit to maximum available air pressure (140 PSI is pressure relief point), then inspect ENTIRE system for leakage. If any leakage is detected make repairs before proceeding.	
(B) Oiler/s	Add approximately 2 ounces of LUBRIPLATE food grade lubricant FMO-150-AW to reservoir (enough to get through shakedown).	
(C) Thumper	With unit operating check Thumper & Ramrods activate every 1 -to- 4 seconds.	
(D) Control Panel	Check pressure gages are properly positioned & functional. Check that all markings and controls are to print.	
	Validate function of Pressure Regulator Control & Gauge	**Pressure Regulator Only**
(E) Labels	Check that all labels, placards, and markings are installed as per print.	**Machine Name**___ **Data Plate 3P0474**___ **Warning 3P0482**___ **Bleed Control 3P0446**___ **Bleed Caution 3P0450**___ **Static Warning 3P0445**___ **Fill with Oil Caution Tag**___ **Oil Specification**___ **Cold Jet Contact 3P0466A**___ **Blast Pressure Regulator**___
(F) Lid Seal	Verify seal does not let sheet of paper slide between Lid and Hopper.	

UNLESS OTHERWISE SPECIFIED
X.X ± 1/64
.X ± .1
.XX ± .01
.XXX ± .005
ANGLES ± .5°
SURFACES 125

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Cold Jet.

TYPE: ASSEMBLY

TITLE: BLASTING UNIT, INDUSTRIAL PNEUMATIC

MATERIAL:		STOCK SIZE: -	WEIGHT:
CREATED BY: mrivir	DATE: 06/23/2007	SUPERSEDES: -	SHEET 5 OF 5
CHANGED BY: -	DATE: -	PART NUMBER: 2A0155	REVISION: D
APPROVED BY:	DATE: -		