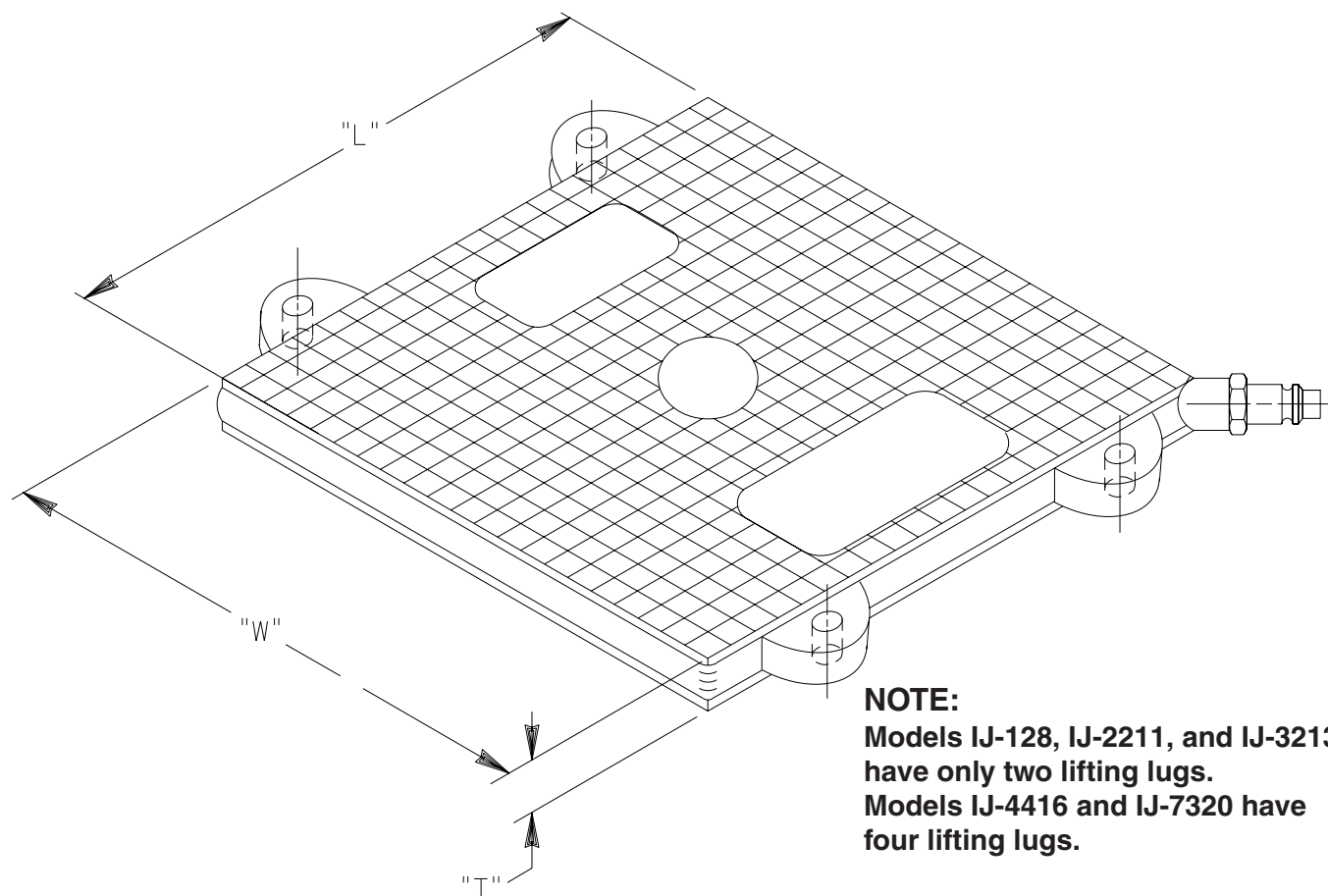


Parts List and

Operating Instructions for:

		IJ-128
		IJ-2211
		IJ-3213
307159	350207	IJ-4416
350090	350208	IJ-7320
	350209	

MODEL B INFLATABLE JACKS



NOTE:
Models IJ-128, IJ-2211, and IJ-3213
have only two lifting lugs.
Models IJ-4416 and IJ-7320 have
four lifting lugs.

	IJ-128	IJ-2211	IJ-3213	IJ-4416	IJ-7320
Lifting Capacity* (Tons)	12	22	32	44	73
Max. Working Pressure (PSI)	116	116	116	116	116
Lifting Height	8"	11"	13"	15-1/2"	20"
Length "L"	15"	20"	24"	28"	36"
Width "W"	15"	20"	24"	28"	36"
Collapsed Height "T"	15/16"	15/16"	15/16"	15/16"	15/16"

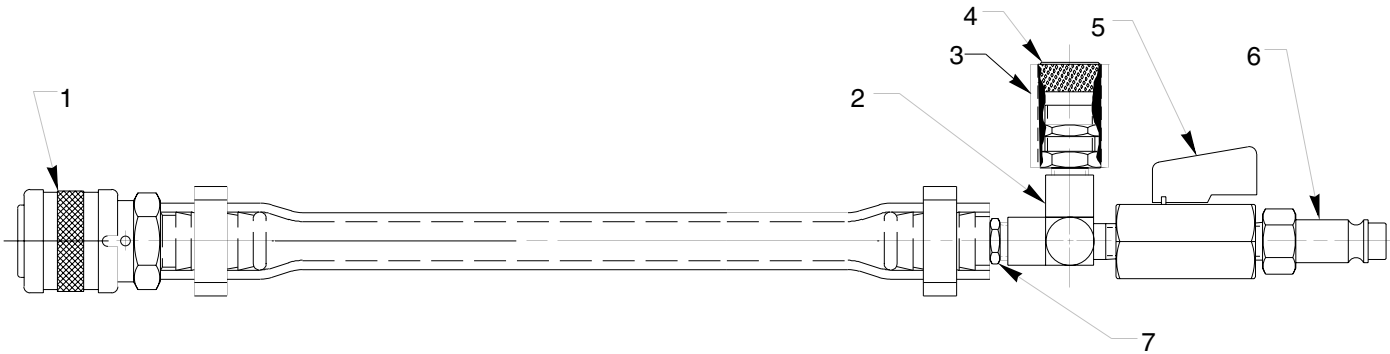
SPECIFICATIONS

* The maximum lifting capacity of the inflatable jack is rated at 15/16" collapsed height. When the jack is inflated, the effective area decreases, as does the lifting capacity. Refer to the chart on back sheet 3 of 5.

CATALOG ACCESSORIES

#350207 Shut-off Hose Assembly

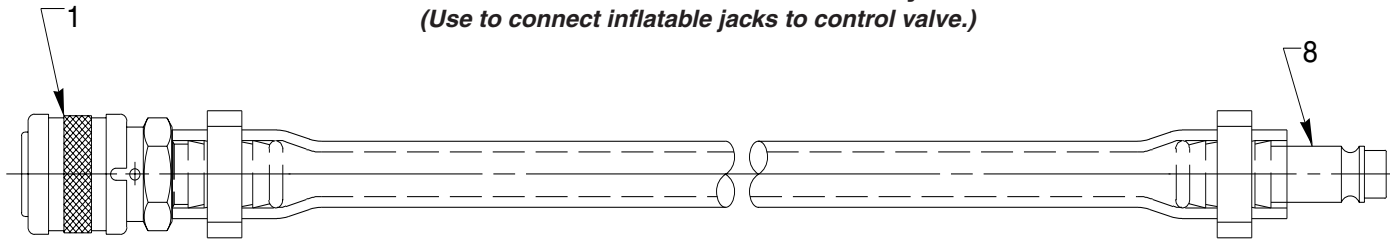
(Allows the pressure source to be disconnected from the inflatable jack while the jack supports the load.)



#350208 Red Hose Assembly

#350209 Blue Hose Assembly

(Use to connect inflatable jacks to control valve.)

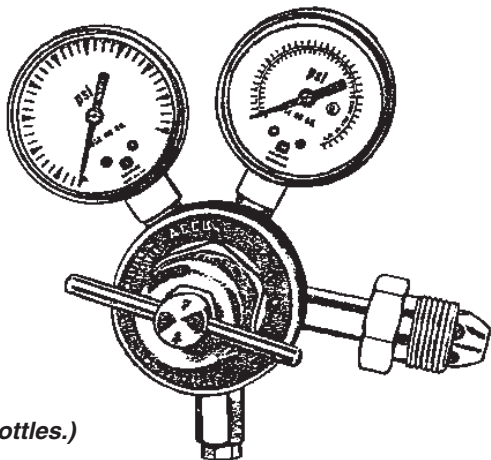


Item No.	Part No.	No. Req'd	Description
1	250341	1	Quick Coupler (Female - 3/8 I.D. Hose)
2	18969	1	Tee Fitting
3	19441	1"	Heat Shrink Tubing
4	250148	1	Adjustable Relief Valve
5	250129	1	Two-way Ball Valve
6	250353	1	Quick Coupler (Male - 3/8 I.D. Hose)
7	250130	1	Air Quick Coupler (Male - 1/8 NPT x 3/8 dia. hose)
8	250342	1	Quick Coupler (Male - 3/8 I.D. Hose)

#307159 Pressure
Regulating Valve

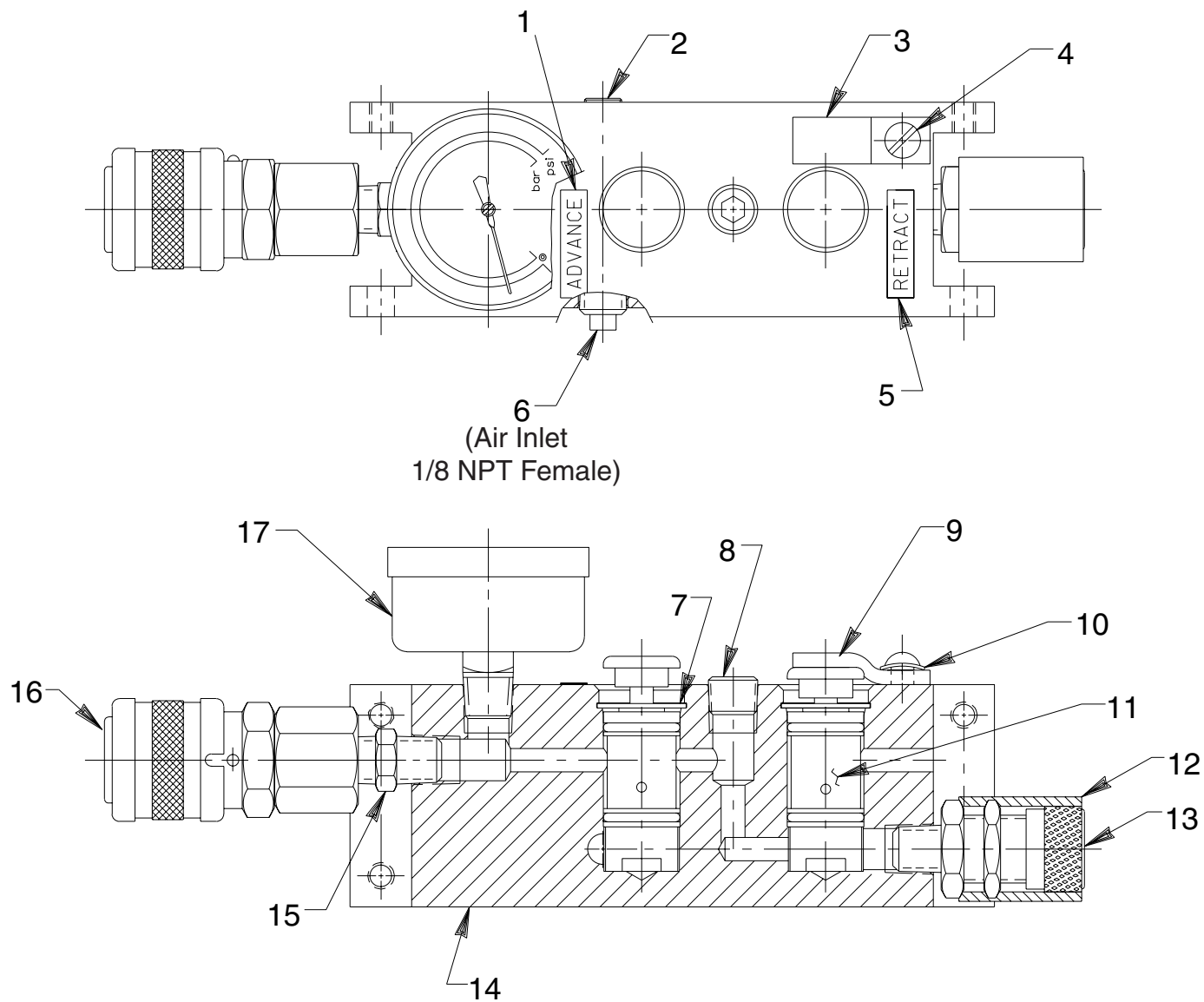
(Use on CGA-580 Nitrogen/Argon/Helium bottles.)

NOTE: Air outlet is 1/4" NPTF.



Note: Shaded areas reflect last revision(s) made to this form.

#350090 Air Operated Hand Control



Item No.	Part No.	No. Req'd	Description
1	29663	1	Decal (Advance)
2	11084	1	Hex Plug (1/16 NPTF)
3	250187	1	Lever
4	10429	1	Slotted Rnd. Hd. Machine Screw (#8-32UNC x 1/2 Lg.; NOTE: Tighten screw until lever encounters resistance with spring washer and stops turning freely. Do not bottomout screw or crush spring washer. Secure screw with Loctite #277.)
5	29664	1	Decal (Retract)
6	11048	1	Hex Plug (1/8 NPTF)
7	11033	2	Retaining Ring (5/8 bore)
8	10427	1	Hex Plug (1/8 NPTF)
9	206105	2	Pushbutton
10	12187	1	Spring Washer (No. 10)
11	250226	2	2-way Poppet Valve Cartridge (Includes seals)
12	19441	1	Heat Shrink Tube (Heat shrink over item #13)
13	250148	1	Pressure Relief Valve (1/8 NPT; NOTE: Do NOT adjust!)
14	58037	1	Valve Body
15	11421	1	Straight Fitting (1/8 NPTF)
16	250343	1	Quick Coupler (Female)
17	420078	1	Pressure Gauge (160 PSI, 1/8 NPT)

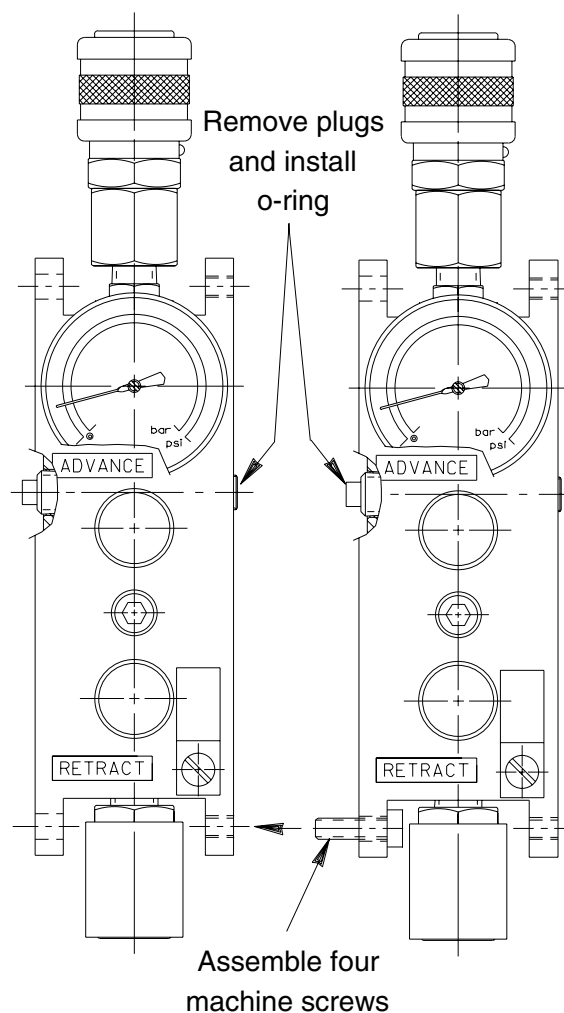
PARTS INCLUDED BUT NOT SHOWN

10270	1	O-ring (5/8 x 7/16 x 3/32, -111)
250291	4	Hex Hd. Cap Screw (#10-24 UNC x 1/2 Lg.)

**To assemble hand controls for dual (or more) applications:
Refer to illustration at right.**

1. Remove hex plug (11048) from one hand control and hex plug (11084) from another hand control.
2. Place o-ring (10270; shipped loose with hand control) in one of the ports revealed by removing the hex plug.
3. Place hand controls together, aligning the two ports, and secure with the four machine screws provided.

**Air Inlet
1/8 NPT Female**



SAFETY PRECAUTIONS

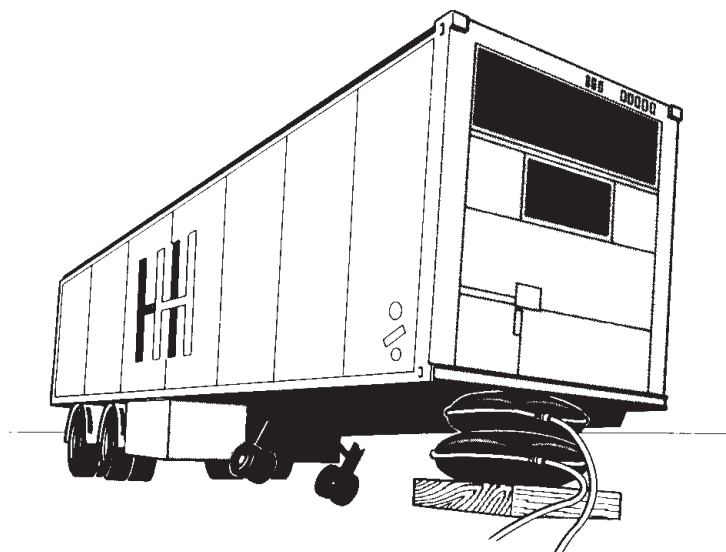
These instructions must be read and carefully followed before operating an inflatable jack. Most problems are caused by improper operation or installation.



WARNING: To help avoid personal injury,

- Only trained and qualified personnel should use an inflatable jack.
- Always wear eye protection when using inflatable jacks.
- Always use a pressure regulator to control inlet pressure to 116 PSI or less to help prevent over-pressurizing the inflatable jack. Never exceed the maximum operating pressure or maximum recommended stroke of an inflatable jack.
- An air filter is strongly recommended to protect the jack from any internal damage.
- Use compressed air, bottled non-explosive gases, oil or water to inflate a jack. NEVER use oxygen!
- To help prevent accidental uncoupling and deflation of a jack, place all system quick couplers in the locked position after joining by rotating the collar on the socket so the collar groove is out of alignment with the collar pin.
- Keep the surface of the inflatable jack clean to maximize grip during a lift.
- Avoid placing the inflatable jack on surfaces that can damage the jack and cause the load to lower unexpectedly. Plywood or steel plates no smaller than the surface of the jack should be used next to jack surface to protect them.
- Follow any load being lifted with the appropriate cribbing to support the load. Use only cribbing which will not slip.
- The inflatable jack must always be next to the load being lifted to help prevent slippage. If needed, suitable cribbing should be placed under the inflatable jack for stability. Never place anything between an inflatable jack and the load except protection to prevent sharp objects from penetrating the jack. See Figure 1.
- Stay clear of the load being lifted to help prevent personal injury.
- For control and stability of the load when stacking a MAXIMUM of two inflatable jacks, always inflate the lower jack first until contact is made with the load. Then inflate both jacks evenly. See Figure 1.
- Do not add a load to an already lifted load.

Figure 1



LIFTING CAPACITY of INFLATABLE JACKS

Lifting Height (Inches)	Lifting Capacity at 116 PSI LBS.				
	IJ-128	IJ-2211	IJ-3213	IJ-4416	IJ-7320
7/8	20,720	42,330	58,420	77,200	138,450
1-9/16	17,200	32,630	48,500	73,860	132,280
2-3/8	14,110	26,460	44,100	70,550	128,750
3-1/8	11,910	22,930	37,920	64,380	117,950
4	9,260	19,400	32,630	59,530	110,890
4-3/4	7,060	15,870	29,100	51,810	95,240
5-1/2	5,300	13,230	23,810	47,400	91,490
6-5/16	3,970	10,140	20,280	41,890	86,420
7-1/8	2,650	7,500	15,870	35,720	79,370
7-7/8	1,770	5,730	13,230	31,310	70,550
8-5/8		3,970	10,580	26,680	61,730
9-7/16		2,650	7,940	22,710	56,220
10-1/4		1,990	6,170	19,840	50,710
11-1/16			3,970	15,650	44,100
11-7/8			2,650	13,230	39,690
12-5/8			1,770	10,140	35,280
13-7/16				8,380	29,760
14-3/16				5,290	24,690
15				3,970	20,950
15-3/4				1,990	17,640
16-9/16					13,230
17-5/16					11,020
18-1/8					8,820
18-7/8					6,620
19-3/4					4,080

OPERATING INSTRUCTIONS

Note: The inflatable jack can be used at temperatures up to 180° F. Limited exposure (15 minutes) is possible at temperatures up to 230° F.

1. Set the pressure regulator valve at 0 PSI.
2. Connect the pressure regulator to the pressure source.
3. Connect the hand control valve to the pressure regulator. **Note: The control valve is a "dead man" type, and will remain off until the ADVANCE or RETRACT button is pressed.**
4. Connect the inflatable jack to the hand control valve, locking the quick coupler collar to help prevent possible accidental uncoupling. **Note: If the pressure source will be intentionally disconnected from the inflatable jack while the load is being supported, install a shut-off hose assembly between the jack and the hand control valve. Open the shut-off valve.**
5. Adjust the pressure regulator output pressure to 116 PSI or less.
6. To lift the load, depress and hold the ADVANCE button on the hand control valve to inflate the jack. If it is necessary to disconnect the jack from the pressure source, close the valve on the shut-off hose that was installed in Step #4. Bleed pressure from the system at the control valve before disconnecting the jack.
7. To lower the load, slowly release the pressure from the system by depressing and holding the RETRACT button on the hand control valve until the jack is completely deflated.
8. To disconnect the system, release the system pressure to very near 0 PSI by depressing the RETRACT button on the hand control valve. The system can then be disconnected at any point between the pressure regulator and the inflatable jack.

MAINTENANCE

- Inspect the equipment after each use. Keep all couplers and valves clean. Keep the surface of the inflatable jack clean to insure that the jack will have sufficient grip during a lift.
- Check all hoses, valves, and gauges periodically. Repair and replace when necessary.

SINGLE LINE SYSTEM
MODEL "B"

The diagram illustrates the assembly of the Single Line System Model "B". It shows a central horizontal line with various components labeled with part numbers and descriptions:

- 350207 ASS'Y.**: Located at the left end of the main line.
- 350208 (RED)** and **350209 (BLUE)**: Two circular components (possibly valves or filters) connected to the main line.
- 350090 ASS'Y.**: A component located further along the main line.
- 250342**, **250343**, and **250353**: Three small components (possibly valves or fittings) connected to the main line.
- 250138**: A component located further along the main line.
- 250341**: A component located further along the main line.
- 250353**: A component located further along the main line.
- 307159**: A component located further along the main line.
- GAS BOTTLE**: A gas bottle connected to the end of the main line.

Additional labels and notes include:

- CUSTOMER SUPPLIED**: A label pointing to the main horizontal line.
- MAY USE 350208 ASS'Y. (RED) OR 350209 ASS'Y. (BLUE)**: A note indicating that either the red or blue assembly may be used.
- 250353 MAY BE USED.**: A note indicating that the 250353 component may be used.

At the bottom left, a list of part numbers is provided:

- J128
- J2211
- J3213
- J4416
- J7320

MODEL B

350207 ASS'Y

350208 (RED)
350209 (BLUE)

350090 ASS'Y

307159

GAS BOTTLE

250353
MAY BE USED.

MAY USE 350208 ASS'Y. (RED)
OR 350209 ASS'Y. (BLUE)

COUPLER INTERCHANGE CHART

	COUPLER SOCKET		COUPLER PLUG	
	3/8" HOSE BARB	1/8" FEMALE PIPE	3/8" HOSE BARB	1/8" MALE PIPE
POWER TEAM	250341	250343	250342	250353
AEROQUIP	-	FD43-1001-02-04	-	FD40-1014-02-04
AMFLO-DIXON	C20-44	C20-21	CP21-44	CP21-01
ARO	-	-	23902-420	23902-110
DYNAQUIP	D-362	D-320	P-362	P-321
FOSTER	BL3703	BL2803	17-3	12-3
HANSEN	1700	800	17	12
HOFMANN	SA3	FA1	SPA3	MPA1
MILTON	717-6	707	736-6	726
PARKER	B20-5B	B23A	H9C	HOC
PSC	2FS3	2FF1	D2S3	D2M1
SCHRADER	55-3240	55-3000	4206-0110	4002-0110
SNAPTITE	36C4-6H	36C4-2F	37N4-6H	37N4-2M
TOMCO	M187	M183	1826	1802