

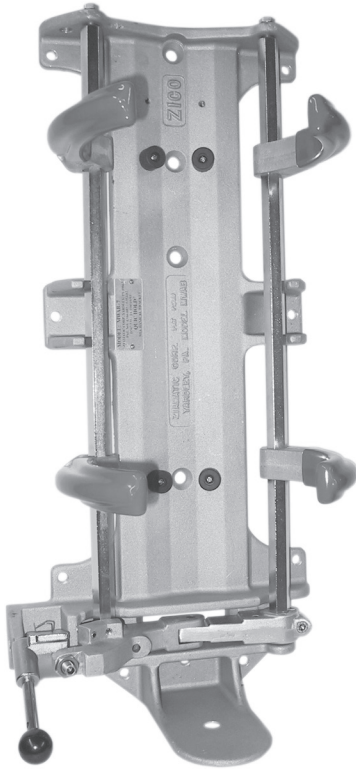
QUIC-HOLD® MECHANICAL BRACKETS

PARTS AND INSTRUCTION MANUAL

ZICO®

1045PM6

REV. 12-17-19



The QUIC-HOLD Mechanical Bracket meets NFPA requirements for cylinder restraint and is third party tested to exceed the 11G standard.

The bracket has four PVC-coated clamp arms that securely lock the SCBA in place without damaging the cylinder wall. For a complete list of what SCBAs work with this bracket turn to page 6.

Donning the SCBA is fast and easy. The firefighter simply slips into the harness, pulls up on the cam-operated release lever, and is ready to go. Storing the SCBA is done by placing the valve on the footplate and pushing down on the release lever.

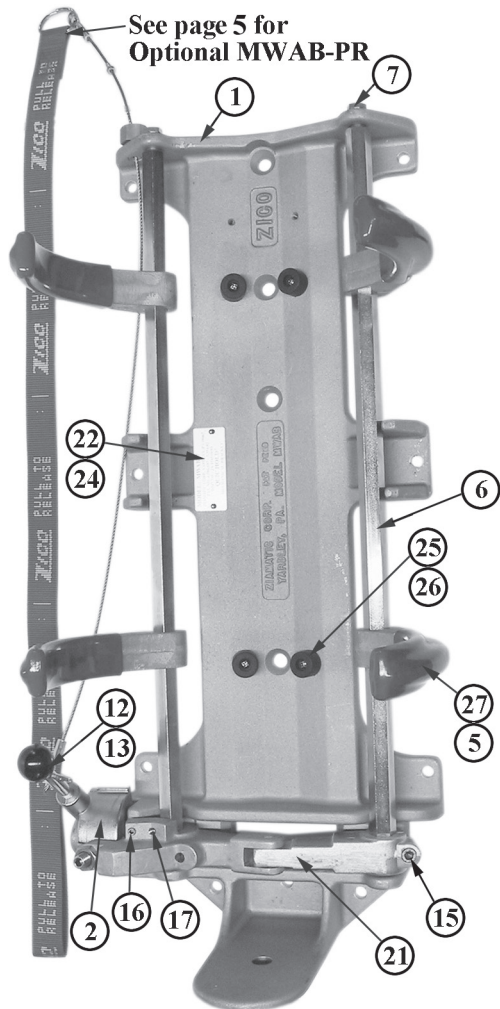
The basic bracket and clamp arms are made of strong, yet lightweight, aluminum alloys. Hex arms and operating lever are plated steel to withstand years of constant use.

Bracket dimensions: 23-3/8" L x 11" W x 7-3/8" D
Optional MWAB-PR strap adds 4" to overall length

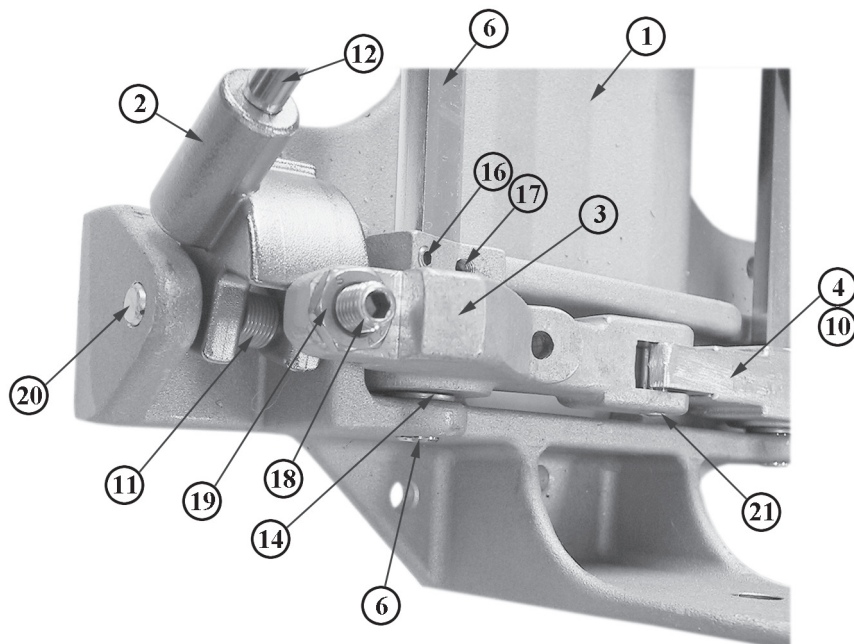
WARNING: Bracket and SCBA harness are not to be used in place of a seat belt.

MODEL	DESCRIPTION	WT./@ IN LBS.
MWAB-03-5	5" Mechanical bracket with standard footplate	15.2
MWAB-03-6	6" Mechanical bracket with standard footplate	15.6
MWAB-03-7	7" Mechanical bracket with standard footplate	16.0
1045-000-155	Replacement clamp arm for MWAB-03-6	.5
1045-000-175	Replacement clamp arm for MWAB-03-5	.5
1045-000-105	Replacement clamp arm for MWAB-03-7	.6

For different cylinder diameters, the clamp arms can be easily changed to accommodate a new cylinder size (see page 3). Priced per each, four are required per bracket.



ITEM NO.	PART NO.	DESCRIPTION	MWAB-03-5	MWAB-03-6	MWAB-03-7
1	1045-000-101	Base casting with foot - alum	1	1	1
2	1045-000-102	Cam casting - steel	1	1	1
3	1045-109-103	Cam follower pivot arm - alum	1	1	1
4	1045-120-104	Pivot arm casting - alum	1	1	1
5	1045-000-175	Clamp arm casting - 5"	4		
	1045-000-155	Clamp arm casting - 6"		4	
	1045-000-105	Clamp arm casting - 7"			4
6	1045-000-106	Pivot beam - 5/8" hex steel	2	2	2
7	1045-000-107	Shoulder bolt - steel	2	2	2
10	1045-000-143	Compression spring	1	1	1
11	1045-000-111	Torsion spring	1	1	1
12	1045-120-116	Cam stud 3/8 x 3 with .120 hole	1	1	1
13	1045-120-113	Ball knob - metric	1	1	1
14	1045-000-128	Washer .72 OD x .463 ID x .104	2	2	2
15	1045-120-190	M6 x 6g x 16mm sock hd screw	1	1	1
16	1045-120-192	M6 x 6g x 20mm sock set screw	1	1	1
17	1045-120-194	M6 x 6g x 12mm sock set screw	1	1	1
18	1045-120-196	M10 x 6g x 35mm fl pt soc ss	1	1	1
19	1045-120-198	M10 x 6h hex hd nut	1	1	1
20	9045-103736	Pin 3/8 x 2-1/4"	1	1	1
21	9045-103116	Pin 5/16 x 1	1	1	1
22	1045-000-131	Label - metal - patent no.	1	1	1
24	9020-100803	Drive screw #2 x 3/16" type U	2	2	2
25	1045-275-113	Rubber bumper	4	4	4
26	9410-220416	M4 x 16 Phillips pan hd	4	4	4
27	9410-100625	M6 x 25mm hex hd	4	4	4
29	1045PM6	Parts and instruction sheet	1	1	1

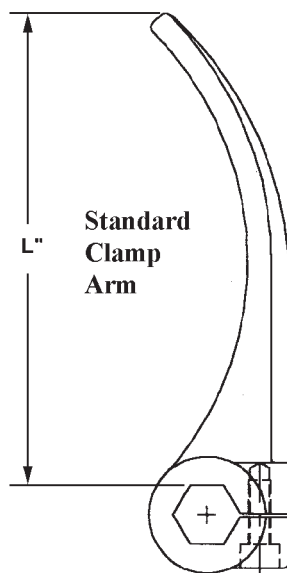


MODEL NO.	CLAMP ARM P/N	CLAMP ARM LENGTH (L")	CLAMP ARM STAMPED WITH NO.
MWAB-03-05	1045-000-175	4-9/16	5-5/3
MWAB-03-6	1045-000-155	5	6-5/3
MWAB-03-7	1045-000-105	5-9/16	7-5/3

Identifying the Clamp Arms:

The label attached to your bracket should identify the model or you may measure the length of the clamp arms to determine which size you have. You may require different clamp arms, depending upon the SCBA you are using. Refer to the charts on pages 6 through 8 to ascertain the size required. Then check page 1 for model numbers.

NOTE: Clamp arm castings are measured from the pivot beam to the outside edge of the red PVC. See drawing below.



For easy identification, a number may be stamped on the clamp arm casting, below the red PVC covering (see chart at top of page).

Changing the Clamp Arms:

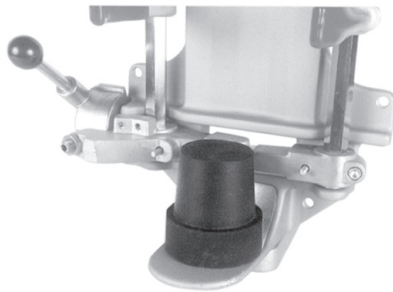
If the clamp arms are to be changed, we suggest the Mechanical bracket be removed from the seat (or mounting surface) and laid on a flat bench. Then follow these steps to change the arms:

1. Push up the knob (13) to unlock the cam (2).
2. Loosen the clamp arms (5) using a 5mm allen wrench on the 10mm wrench head screws (15).
3. Remove the two shoulder bolts (7) from the ends of the pivot beams (6).
4. While holding the pivot beams (6) so that the male ends cannot slide out of the base, carefully slide off the clamp arms and replace them with the new arms. Then replace pivot beams (6).
5. Replace the two shoulder bolts (7) and tighten down.
6. Swing cam lever (12) to unlocked position to confirm pivot beams (6) move freely and that pivot arm spring (10) is in place and working properly.
7. Make sure clamp arms are in proper position to grasp the air cylinder, while not interfering with the harness assembly or regulator. Then tighten the screws (15) on each clamp arm.
8. Adjust the socket set screw (16) to center the cylinder in the clamp arms. When closed, the tips of the clamp arms on both sides should be no more than 1/2" from the center of the cylinder.

Obtaining Correct Tension on the Air Cylinder:

1. Open the cam (2) by lifting up on the ball knob (13).
2. Loosen the lock nut (19) and back it off.
3. Turn socket set screw (18) a few turns.
4. Place the air cylinder between clamp arms (5). The valve assembly should rest upon the footplate of the base casting (1), or other firm surface if no footplate.
5. Close the clamp arms (5) by hand and allow the cam (2) to rotate downward. Allow the air cylinder to center itself.
6. Back out the socket set screw (18) until the lip on top of the cam just aligns with the side of the pivot arm (4).
7. Tighten the lock nut (19)

NOTE: If the end of the pivot arm casting (4) strikes the air cylinder gauge when the clamp arms are open (as it may with the MSA 30-minute, 4500 PSI unit), then a NPM 3.5 nozzle post mount must be used.



Model NPM 3.5 attached to footplate (sold separately).

3. Drill four 21/64" mounting holes.
4. Mount in place using 5/16" flat head bolts.

Releasing the SCBA:

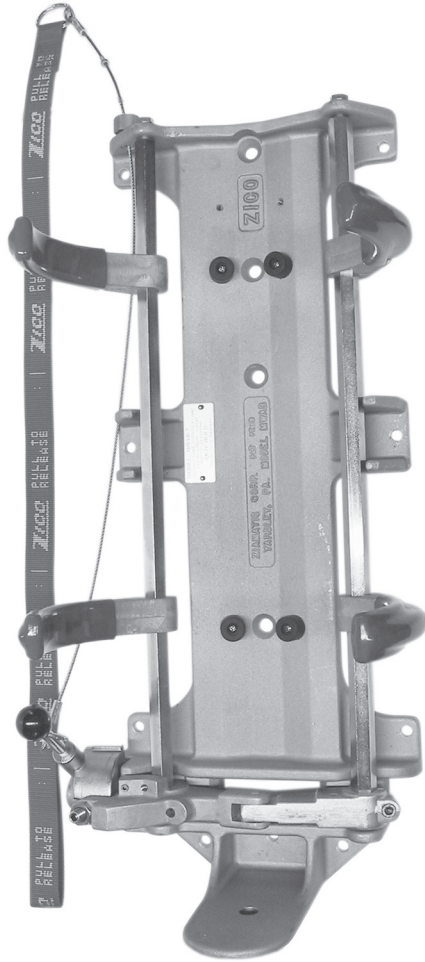
1. Pull up on the black ball knob (13) or down on the lanyard release to separate the clamp arms and free the SCBA.

Securing the SCBA:

1. Rest the SCBA valve assembly against the protruding aluminum footplate and tilt back until cylinder rests against the base (1).
2. Holding the top of the cylinder in place, push inward on one of the clamp arms (5) while the cam (2) is engaged.
3. Push down on the black ball knob (13) or pull up on the actuating handle (12) until the top lip of the cam comes into contact with the lock screw (8).

Mounting the Mechanical Bracket:

1. Select a mounting location. If mounting inside the crew cab, take into consideration that the mounting surface must be able to withstand an 11G force.
2. Use the bracket as a template to mark the mounting holes. Four holes are available down the center of the base casting.

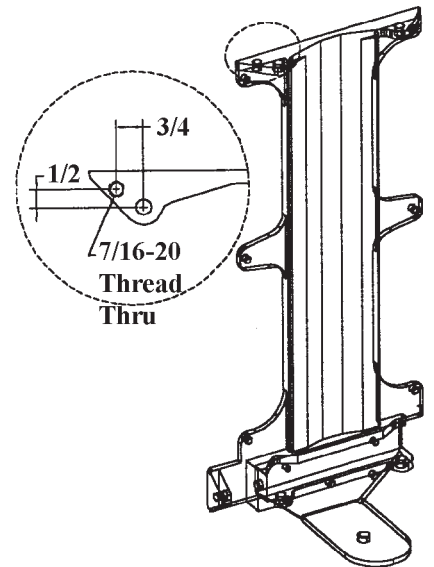


Pull release lanyard may be added to any MWAB bracket. Order Model MWAB-PR.

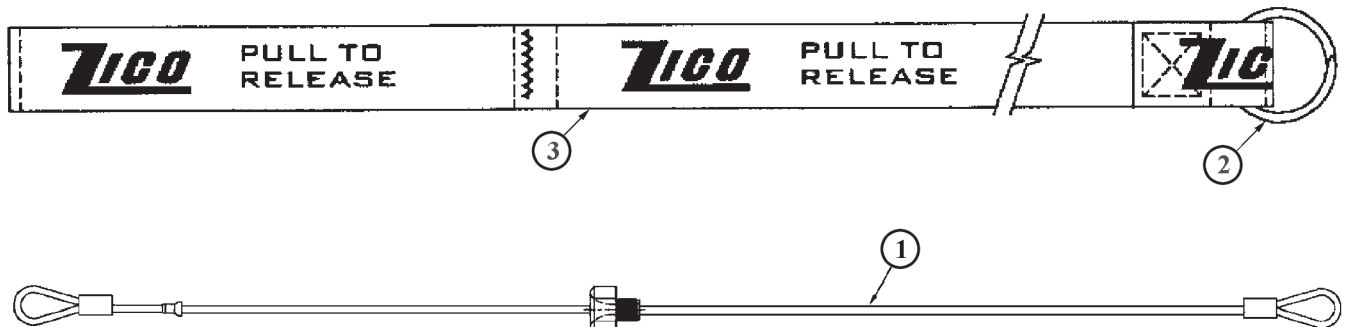
NOTE: Cable guide hole may have to be drilled and tapped if not present on your bracket.

To install:

1. Remove key ring (2) from cable (1). Insert this end of the cable through the cable guide hole (see diagram below). Secure the guide nut to the backplate.
2. Reattach keyring to the cable, and then to the hole in the cam stud.
3. Attach red pull strap (3) to free end of the cable assembly.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1045-250-104	Cable assembly 29-7/8" lg.	1
2	0000-000-120	Split ring key ring - 1" dia.	2
3	1045-225-113	Pull strap - 30" lg.	1



RECOMMENDED MECHANICAL BRACKET BY SCBA MANUFACTURER

MANUFACTURER & CYLINDER COMP.		CYLINDER/ MODEL NO.	MINUTES DURATION	HIGH PRESS. PSI	LOW PRESS. PSI	RECOMMENDED BRACKET
Cairns Air	AL	3100003-0111	30		2216	MWAB-03-7
	HWFG	3100003-0112	30		2216	MWAB-03-7
	FWFG	3100003-0113	30		2216	MWAB-03-7
	FWFG	3100004-0111	30	4500		MWAB-03-5
	FWFG	3100004-0112	45	4500		MWAB-03-7
	FWFG	3100004-0113	60	4500		MWAB-03-7
	FWK/FG	3100004-0115	30	4500		MWAB-03-5
	FWK/FG	3100004-0116	45	4500		MWAB-03-7
	FWK/FG	3100004-0117	60	4500		MWAB-03-7
International Safety Instruments	HWFG	707.150.00	30		2216	MWAB-03-7
		.024.035.00				
		707.150.01				
	AL	.024.037.00	30		2216	MWAB-03-7
		707.159.02				
		.024.086.00				
	FWFG	707.149.00	30		2216	MWAB-03-7
		.024.065.00				
		707.149.01				
	FWFG	.024.066.00	30	4500		MWAB-03-5
		707.149.00				
		.024.085.00				
	FWFG	707.149.04	30	4500		MWAB-03-5
		024.098.00				
		.024.159.00				
	FWK	.024.161.00	45	4500		MWAB-03-7
		.024.163.00	60	4500		MWAB-03-7
Interspiro	HWFG	Spiromatic 4515	30		2216	MWAB-03-7
	FWFG	Spiromatic 4530				
	FWK	336-890-003	30	4500		MWAB-03-5
		Spirolite 4530	30	4500		MWAB-03-5
	FWK	336-890-177				
	FWFG	Spirolite 6630	45	4500		MWAB-03-7
		336-890-177				
	FWK	Spiromatic 9030	60	4500		MWAB-03-7
	FWK	336-890-037				
MSA	FWC	807586	30		2216	MWAB-03-7
	Stealth	807587	30	4500		MWAB-03-5
		807570	45	4500		MWAB-03-7
		807588	60	4500		MWAB-03-7
		807588	60	4500		MWAB-03-7
	Composite II	801279	30		2216	MWAB-03-7
		801287	30	4500		MWAB-03-5
		801285	60	4500		MWAB-03-7
	Composite III	801289	30	3000		MWAB-03-5
		806933	45	4500		MWAB-03-7
		807002	60	4500		MWAB-03-7
	MSA	469619	30		2216	MWAB-03-7
		809872	30			MWAB-03-7
		801281	30			MWAB-03-7

AL = aluminum FWK/FG = full wrap Kevlar with fiberglass FWFG = full wrap fiberglass
 HWFG = hoop wrap fiberglass FWK = full wrap Kevlar FWC = full wrap carbon

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RECOMMENDED MECHANICAL BRACKET BY SCBA MANUFACTURER

MANUFACTURER & CYLINDER COMP.		CYLINDER/ MODEL NO.	MINUTES DURATION	HIGH PRESS. PSI	LOW PRESS. PSI	RECOMMENDED BRACKET
National Drager	AL	Air Boss	30		2216	MWAB-03-7
	HWFG	Air Boss	30		2216	MWAB-03-7
	FWFG	Air Boss	30		2216	MWAB-03-7
	FWFG	Air Boss	30	4500		MWAB-03-5
	FWFG	Air Boss	45	4500		MWAB-03-7
	FWK	Air Boss	30	4500		MWAB-03-5
	FWK	Air Boss	45	4500		MWAB-03-7
	FWK	Air Boss	60	4500		MWAB-03-7
North Safety Products	AL	810	30	4500		MWAB-03-7
	FWFG	811	60	4500		MWAB-03-7
	AL	812	30		2216	MWAB-03-7
	HWFG	816	30		2216	MWAB-03-7
	HWFG	817	30	4500		MWAB-03-5
	FWFG	820	30	4500		MWAB-03-5
	FWFG	821	60	4500		MWAB-03-7
	AL	822	30		2216	MWAB-03-7
	HWFG	823	30		2216	MWAB-03-7
	HWFG	824	30	4500		MWAB-03-5
O-Two Systems Lynx Air	AL	Standard 10LX1001	30		2216	MWAB-03-7
	AL	NFPA 10LX2001	30		2216	MWAB-03-7
	FWFG	Light Wt. 10LX1002	30		2216	MWAB-03-7
	FWFG	Lt Wt NFPA10LX2002	30		2216	MWAB-03-7
Protech Respirators	AL	Pro Pack 2700-AL	30		2216	MWAB-03-7
	FWFG	Pro Pack 2700-FW	30		2216	MWAB-03-7
Racal	AL	2000-AL	30		2216	MWAB-03-7
	HWFG	2000-HW	30		2216	MWAB-03-7
	FWFG	2000-FW	30		2216	MWAB-03-7
Respiratory Systems	AL	Lifeair L-30-IND-50 300323-111	30		2216	MWAB-03-7
	FWFG	Lifeair L-30-IND-52 300323-112	30		2216	MWAB-03-7
Scott NXG2® Next Generation	FWC	200131-01	30		2216	Not Available
	FWC	200128-01	30	4500		Not Available
	FWC	200129-01	45	4500		Not Available
	FWC	200130-01	60	4500		MWAB-6-SP

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MANUFACTURER & CYLINDER COMP.		CYLINDER/ MODEL NO.	MINUTES DURATION	HIGH PRESS. PSI	LOW PRESS. PSI	RECOMMENDED BRACKET
Scott Aviation Anniversary Pack	AL	804101-01	30		2216	MWAB-03-7
	HWFG	804102-01	30		2216	MWAB-03-7
	FWFG	804103-01	30		2216	MWAB-03-7
	FWK	804514-01	30		3000	MWAB-03-6
	FWC	804840-01	30		2216	MWAB-03-7
	FWFG	804105-01	30	4500		MWAB-03-5
	FWK	804225-01	30	4500		MWAB-03-5
	FWC	804721-01	30	4500		MWAB-03-5
	FWFG	804106-01	45	4500		MWAB-03-7
	FWK	804255-01	45	4500		MWAB-7-SC-50
	FWC	804722-01	45	4500		MWAB-03-6
	FWFG	804107-01	60	4500		MWAB-03-7
	FWK	804222-01	60	4500		MWAB-03-7
	FWC	804723-01	60	4500		MWAB-03-7
SurvivAir Sigma	AL	964212/964213	30		2216	MWAB-03-7
	HWFG	964202/964203	30		2216	MWAB-03-7
	HWFG	964002/964003	30	4500		MWAB-03-5
	FWFG	964222/964223	30		2216	MWAB-03-7
	FWFG	964012/964013	30	4500		MWAB-03-5
	FWFG	966002/966003	45	4500		MWAB-03-7
	FWFG	967002/967003	60	4500		MWAB-03-7
	FWK	964022/964023	30	4500		MWAB-03-5
	FWK	966012/966013	45	4500		MWAB-03-7
	FWK	967012/967013	60	4500		MWAB-03-7
	Omega	HWFG	964301/964311	30	4500	MWAB-03-7
		HWFG	964101/964111	30	4500	MWAB-03-5
	AL	964303/964313	30		2216	MWAB-03-7
	FWFG	964305/964315	30		2216	MWAB-03-7
	FWFG	964103/964113	30	4500		MWAB-03-5
	FWFG	966101/966111	45	4500		MWAB-03-7
	FWFG	967101/967111	60	4500		MWAB-03-7
	FWK	964105/964115	30	4500		MWAB-03-5
	FWK	966103/966113	45	4500		MWAB-03-7
	FWK	967103/967113	60	4500		MWAB-03-7
	Mark II	HWFG	9842		2216	MWAB-03-7
		FWFG	9840	4500		MWAB-03-5
	Cylinders	FWFG	9870	4500		MWAB-03-7
		AL	915140		2216	MWAB-03-7
		HWFG	916103		2216	MWAB-03-7
		FWFG	915170		2216	MWAB-03-7
		FWK	917130		2216	MWAB-03-7
		HWFG	915165	4500		MWAB-03-5
		FWFG	916173	4500		MWAB-03-5
		FWK	916135	4500		MWAB-03-5
		FWC	917131	4500		MWAB-03-5
		FWFG	916140	4500		MWAB-03-7
		FWK	916145	4500		MWAB-03-7
		FWC	917145	4500		MWAB-03-7
		FWFG	915182	4500		MWAB-03-7
		FWK	915177	4500		MWAB-03-7
		FWC	917160	4500		MWAB-03-7

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Ziamatic Corp.

10 West College Avenue, P.O. Box 337, Yardley, PA 19067-0587 • (215) 493-3618 • FAX: (215) 493-1401

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