

## MBX TYPE EXTENSIONS FOR MBC GUNS

### DESCRIPTION

Manual type spray gun extensions are for use with standard MBC guns for applications of coatings in hard-to-reach areas. In addition to the MBX extension, the gun body assembly, P-MBC-428-3, must be ordered (order separately).

#### Note

For complete service information regarding the MBC guns, refer to the current MBC Service Bulletin (SB-2-301) for complete information.



These extensions may be used with most all common coating and finishing materials. Not intended for use with highly corrosive, highly rust inducing or abrasive materials. Use of these materials can lead to the need for frequent, thorough cleaning and parts replacement.

### INSTALLATION

To remove standard cap, tip and needle, and install extension, proceed as follows:

- Loosen locking bolt and unscrew it from the spray head.
- Push trigger forward, pull fluid needle back approximately 1/2" and pull spray head forward and out.

- Remove gasket from between spray head and gun body and install new one.
- To install extension, retract fluid needle approximately 1/2", position extension and tighten locking bolt.

### OPERATION

The operating procedure for the extension is the same as with standard MBC gun with one exception:

Pattern size control - For use with the extension, the air adjusting valve on the gun should be in full open position (by turning counterclockwise) at all times.

### PREVENTIVE MAINTENANCE

Lubrication: Place a drop of spray gun lube •SSL-10 (see Accessories) daily at the fluid needle shaft or fluid needle where it enters the packing nut or gun body and at the top of the air valve.

#### Cleaning Procedure:

For Material Pump - Remove material, clean container, replace with suitable solvent and spray in usual manner until clear solvent appears.

For Pressure Tank - Relieve pressure at tank. Hold a rag over the nozzle. Pull trigger and air pressure will force material from gun passages and material lines into container.

The gun can be cleaned by emptying the material from the container, replacing with a suitable solvent and spraying in the usual manner until clear solvent appears.

A Devilbiss Hose Cleaner (see Accessories) is recommended to clean both material hose and gun. Empty material container and replace tank lid but do not tighten in place. Disconnect material hose from gun and attach to fluid outlet at hose cleaner. Attach air supply hose to air inlet nipple of the hose cleaner and open air and fluid valves on hose cleaner. Flush until clear solvent appears. Turn off fluid valve and allow air to flow through hose and tank material passages to evaporate solvent.

To clean gun, attach a short piece of material hose to hose cleaner and connect to fluid inlet of gun. Open both air and fluid valves of hose cleaner and spray in usual manner until clear solvent appears. Clean air cap with a solvent soaked rag. If necessary to clean air cap hose, use a broom straw or toothpick. Never use a wire or hard instrument. This may scratch or burr holes causing a distorted spray pattern. Wipe gun with solvent soaked rag. Never completely immerse gun in solvent. This will destroy packings and lubricants.

### PARTS REPLACEMENT

#### Fluid Needle Packing in Spray Head Body:

To replace the packing remove the spray head (see Installation) and remove the packing nut. The fluid needle on the straight extension can then be removed. Remove the old fluid needle packing. Before installing a new one, place a few drops of gun lube •SSL-10 on it. Assemble in reverse order.

• A Material Safety Data Sheet is available from Devilbiss upon request.

CHART 1

Extension Assy No.	Length (Inches)	Dimensions at Nozzle (Inches)	Angle of Spray	Type of Spray	Spray Pattern
MBX-4201 MBX-4214-36 MBX-4214-42	12" 36" 42"	3/8" 	360°	Disc 	
MBX-4232 MBX-4233 MBX-4235-36	12" 18" 36"	27/32" 	90°	Flat 	

**SAFETY PRECAUTIONS**

This manual contains information that is important for you to know and understand. This information relates to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please pay particular attention to these sections.



**Important safety information - A hazard that may cause serious injury or loss of life.**







**Important information that tells how to prevent damage to equipment, or how to avoid a situation that may cause minor injury.**

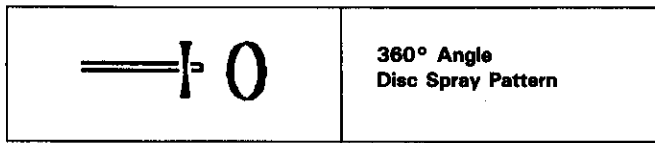
Note

Information that you should pay special attention to.



The following hazards may occur during the normal use of this equipment. Please read the following chart before using this equipment.

HAZARD	CAUSE	SAFEGUARDS
 Fire	Solvent and coatings can be highly flammable or combustible especially when sprayed.	Adequate exhaust must be provided to keep air free of accumulations of flammable vapors.  Smoking must never be allowed in the spray area.  Fire extinguishing equipment must be present in the spray area.
 Solvent Spray	During use and while cleaning and flushing, solvents can be forcefully expelled from fluid and air passages. Some solvents can cause eye injury.	Wear eye protection.
 Inhaling Toxic Substances	Certain materials may be harmful if inhaled, or if there is contact with the skin.	Follow the requirements of the Material Safety Data Sheet supplied by your coating material manufacturer.  Adequate exhaust must be provided to keep the air free of accumulations of toxic materials.  Use a mask or respirator whenever there is a chance of inhaling sprayed materials. The mask must be compatible with the material being sprayed and its concentration. Equipment must be as prescribed by an industrial hygienist or safety expert, and be NIOSH approved.
 Explosion Hazard - Materials	Halogenated hydrocarbon solvents - for example; methylene chloride and 1, 1, 1 - Trichloroethylene are not chemically compatible with the aluminum that might be used in many system components. The chemical reaction caused by these solvents reacting with aluminum can become violent and lead to an equipment explosion.	The MBC spray gun can be used with these solvents. However, aluminum is widely used in other spray application equipment - such as material pumps, regulators, valves and cups. Check all equipment items before use and make sure they can also be used safely with these solvents. Read the label or data sheet for the material you intend to spray. If in doubt as to whether or not a coating or cleaning material is compatible, contact your material supplier.
General Safety	Improper operation or maintenance of equipment.	Operators should be given adequate training in the safe use & maintenance of the equipment (in accordance with the requirements of NFPA-33, Chapter 15). Users must comply with all local & national codes of practice & insurance company requirements governing ventilation, fire precautions, operation, maintenance and housekeeping. These are OSHA Sections 1910.94 and 1910.107 and NFPA-33. Risk is reduced by avoiding or lessening factors 1-7.
Cumulative Trauma Disorders ("CTD's") CTD's, or musculo-skeletal disorders, involve damage to the hands, wrist, elbows, shoulders, neck & back. Carpal tunnel syndrome & tendinitis (such as tennis elbow or rotator cuff syndrome) are examples of CTD's.	Use of hand tools may cause cumulative trauma disorders ("CTD's").  CTD's when using hand tools, tend to affect the upper extremities. Factors which may increase the risk of developing a CTD include:  1. High frequency of the activity. 2. Excessive force, such as gripping, pinching, or pressing with the hands and fingers. 3. Extreme or awkward finger, wrist, or arm positions 4. Excessive duration of the activity. 5. Tool vibration. 6. Repeated pressure on a body part. 7. Working in cold temperatures.  CTD's can also be caused by such activities as sewing, golf, tennis bowling, to name a few.	Pain, tingling, or numbness in the shoulder, forearm, wrist, hands or fingers, especially during the night, may be early symptoms of a CTD. Do not ignore them. Should you experience any such symptoms, see a physician immediately. Other early symptoms may include vague discomfort in the hand, loss of manual dexterity, and nonspecific pain in the arm. Ignoring early symptoms and continued-repetitive use of the arm, wrist & hand can lead to serious disability.



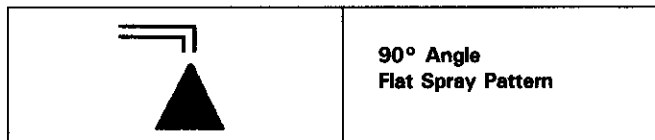
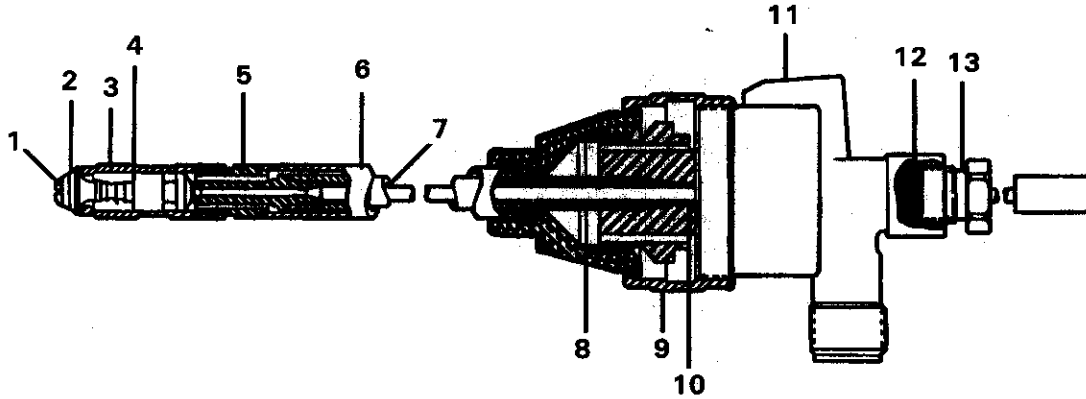
360° Angle  
Disc Spray Pattern

**PARTS LIST**

Ref. No.	Replacement Part No.	Description	Qty.
1	MBX-291	Locking Screw	1
2	MBX-290	Fluid Tip Point	1
3	MBX-181	Air Cap	1
4	MBX-289-1	Fluid Tip	1
5	MBX-184	Adapter	1
6	See Chart 2	Air Tube	1
7	See Chart 2	Fluid Tube & Adapter Assy.	1
8	MBX-196	Air Tube Adapter	1
9	MBC-368	Retaining Ring	1
10	See Chart 2	Fluid Needle	1
11	P-MBC-402	Spray Head Body (3/8" NPS(M))	1
12	A-23-K5	Packing (Kit of 5)	1
13	MB-19	Packing Nut	1

**CHART 2**

Extension Only Assembly	Air Tube Ref. #6	Fluid Tube and Adapter Ref. #7	Fluid Needle Ref. #10
MBX-4201	MBX-185	MBX-4001	MBX-422
MBX-4214-36	32268-139	41376-518	MBX-426-36
MBX-4214-42	32268-140	41376-517	MBX-426-42



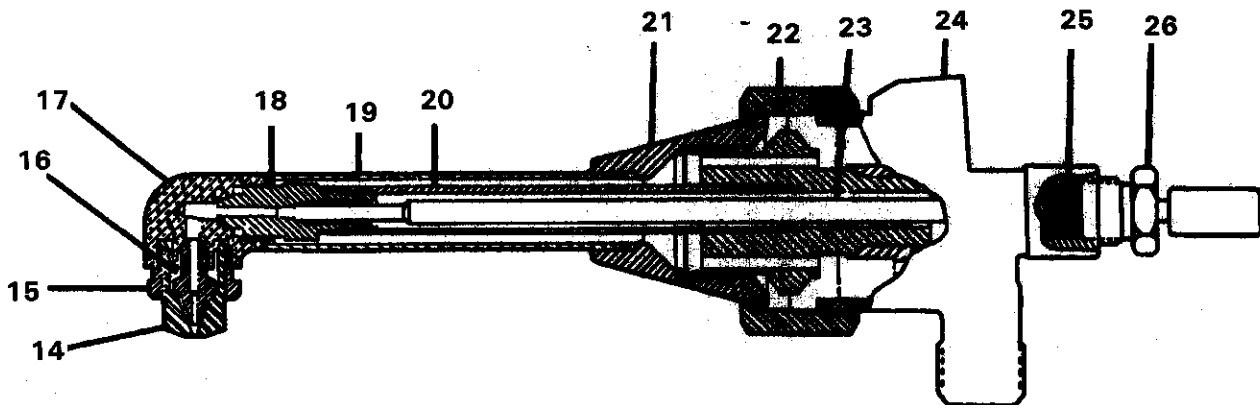
90° Angle  
Flat Spray Pattern

**PARTS LIST**

Ref. No.	Replacement Part No.	Description	Qty.
14	GC-38-F81	Air Cap	1
15	GC-40	Retaining Ring	1
16	GC-41-F	Fluid Tip CRS	1
17	MBX-164	Air Cap for 90° Ext.	1
18	MBX-161	Fluid Tip	1
19	See Chart 3	Air Tube	1
20	See Chart 3	Fluid Tube & Adapter Assy.	1
21	MBX-114	Air Tube Adapter	1
22	MBC-12	Retaining Ring	1
23	See Chart 3	Fluid Needle	1
24	P-MBC-402	Spray Head Body (3/8" NPS(M))	1
25	A-23-K5	Packing (Kit of 5)	1
26	MB-19	Packing Nut	1


**CHART 3**

Extension Only Assembly	Air Tube Ref. #19	Fluid Tube and Adapter Ref. #20	Fluid Needle Ref. #23
MBX-4232	MBX-117	MBX-4006	MBX-4117
MBX-4233	MBX-118	MBX-4007	MBX-4118
MBX-4235-36	32268-143	41376-520	MBX-4120-36




**ACCESSORIES**

**42884-214-K5 3/8"**  
**42884-215-K10 5/8"**  
**Cleaning Brushes**



These brushes are helpful in cleaning threads and recesses of gun body.

**WR-103 Wrench**




This wrench contains all necessary tip, hose and nut sizes used on or with gun.

**MB135-K9 Fluid Needle Packings (Leather)**




Leather packings are available; usually used when abrasive materials are sprayed. Use three (3) MB-135 packings in place of A-23 packing.

**HD-503 2 qt. (2.1 Liters) Hose/Gun Cleaner SolventSaver™**



Used to clean the inside of hose and material passages of the gun.

**SSL-10 Spray Gun Lube 2 oz. (60 ml) bottle**



Use on air cap and retaining ring. Compatible with all paint materials, contains no silicone or petroleum distillates to contaminate paint. MSDS available upon request.

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