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# INTRODUCTION

to the **BrakeMate**

Congratulations on the purchase of your BrakeMate brake flush machine!

The BrakeMate is a fully automatic brake-flushing machine that can service all 4 wheels in under 9 minutes.

Brake service is now more profitable, since we have eliminated the need for a second technician when performing a brake bleeding service.

The BrakeMate provides the shop with the ability to flush and pressure test a brake system faster and easier than ever before with a combination of automation, speed and effectiveness. The BrakeMate also follows the OE recommended flushing sequence.

***Please take time to read through this manual to familiarize yourself with the BrakeMate before performing your first brake flush.***

# IMPORTANT SAFETY NOTICE

For your safety, read this manual thoroughly before operating this machine. Your BrakeMate unit is intended for use by properly trained, skilled professional automotive technicians. The safety messages presented below and throughout this user's manual are reminders to the operator to exercise care when using this unit. Before using your BrakeMate unit, always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced.

## • Read All Safety Instructions

Read, understand and follow all safety messages and instructions in this manual. Safety messages in this section of the manual contain a signal word with a three-part message and, in some instances, an icon.

## • Signal Words

The signal word indicates the level of the hazard in a situation:

### **DANGER**

*Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.*

### **WARNING**

*Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.*

### **CAUTION**

*Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.*

### **IMPORTANT**

*Indicates a situation which, if not avoided, may result in damage to the machine, or the vehicle being serviced.*

## • Safety Messages

Safety messages in this section contain three different type styles:

- Normal type states the hazard.
- **Bold type** states how to avoid the hazard.
- *Italic type* states the possible consequences of not avoiding the hazard.

## • Safety Symbols

A safety symbol, when present, gives a graphical description of the potential hazard, and how to avoid the hazard:



**Risk of Fire**



**Read Instructions Before Use**



**Risk of Explosion**



**Mandatory Eye Protection**



**Risk of Entanglement**



**Mandatory Protective Gloves**



**Dangerous Fumes**



**Mandatory Protective Clothing**



**Do Not Pull or Move**



**Risk of Burns**

# IMPORTANT SAFETY INSTRUCTIONS

## DANGER



Engine exhaust contains toxic gases.

- **Vent vehicle's exhaust away from work area.**
- **Do not breathe exhaust.**

*Exhaust gases will cause injury or death.*

## WARNING



Improper use and operation.

- **Read, understand and follow all safety messages and operational procedures in this manual before operating this machine.**
- **This equipment should be operated only by qualified personnel.**
- **Use this equipment only as described in this manual.**

*Improper use and operation of this product can result in injury.*

## WARNING



Engine systems can malfunction expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other flying particles.

- **Wear safety goggles and protective clothing, user and bystander. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.**
- **Do not position head directly over or in front of carburetor or throttle body. Engine backfire can occur when air cleaner is out of normal position.**
- **Make sure gauge reads zero before connecting or disconnecting hose connections to adapters.**
- **Make sure cooling system pressure has been relieved before connecting or disconnecting hose connections and adapters.**
- **Keep a dry chemical (Class B) fire extinguisher rated for gasoline, chemical & electric fires in the work area.**

*Fire, explosion, or flying particles may cause serious injury.*

## WARNING



Risk of expelling pressurized fluids.

- **Wear safety goggles and protective clothing, user and bystander.**

- Engine systems can malfunction, expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other debris.
- Always unplug the machine from its power source when not in use.
- Keep the service hoses away from hot or moving engine parts. Hoses can split or burst causing fluid to be expelled.
- Avoid contact with brake fluid.
- Treatment methods are as follows:
  - Eyes: Flush eyes with plenty of water.
  - Skin: Wash with soap and water.
  - Inhalation: Move to uncontaminated area.
  - Ingestion: If large amount, get medical attention. If any irritation persists, get medical attention.
- Dispose of used fluid according to environmental laws and regulations.

*Fuel, oil vapors, hot steam, hot toxic exhaust gases, pressurized fluid, and other debris can cause serious injury.*

## **WARNING**

Risk of unexpected vehicle movement.

- Block drive wheels before starting vehicle's engine to begin an exchange.
- Unless instructed otherwise, set parking brake and put gear selector in park.
- Do not leave a running vehicle unattended.
- If vehicle has an automatic parking brake release, disconnect release mechanism for testing and reconnect when testing is completed.

*A moving vehicle can cause injury.*

## **WARNING**



Risk of entanglement. Engine has moving parts.

- Do not place tools on fenders or other places in engine compartment.
- Keep yourself, clothing, battery cables and service hoses clear of moving parts such as fan blades, belts, pulleys, hood and doors.
- Barriers are recommended to help identify danger zones in test area.
- Prevent personnel from walking through immediate test area.

*Contact with moving parts can cause injury.*

## **WARNING**



Risk of fire or explosion.

- Do not operate in the vicinity of open containers of flammable liquids such as gasoline.
- Keep hoses and jumper cables away from heat sources and sharp edges.
- Do not operate equipment with damaged cords or hoses until they have been examined by a qualified serviceman.

*Fire or explosion can cause injury.*

## **WARNING**



Risk of fire or explosion. Gases produced by a battery are highly explosive.

- **Wear safety goggles and protective clothing, user and bystander.**
- **This machine is equipped to operate on 12-volt DC power only. A power source greater than this can result in serious injury to the user as well as damage to the machine.**
- **Do not smoke, place metal tools on battery or allow a spark or flame in vicinity of battery.**
- **Clean battery terminals before hooking the machine's battery clips to them. During cleaning, keep airborne corrosion from eyes, nose and mouth.**
- **Be sure both battery cables are tightly connected to the battery terminals as instructed before proceeding with a fluid exchange.**
- **Never remove battery cables from the battery terminals while the machine is operating.**

*Battery explosion can cause injury.*

## **WARNING**



Risk of burns.

- **Wear gloves when handling hot engine components.**
- **Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**

*Hot engine parts may cause injury.*

## **WARNING**



Battery acid is a highly corrosive sulfuric acid.

- **Wear safety goggles and protective gloves, user and bystander.**
- **Have plenty of fresh water and soap nearby. If battery acid contacts skin, clothing, or eyes, flush exposed area with soap and water for 10 minutes.**
- **While cleaning battery's terminals, keep airborne corrosion from eyes, nose and mouth.**
- **Do not touch eyes while working near battery.**

*Battery acid can burn eyes and skin.*

## **WARNING**



Risk of burns.

- **Wear gloves when working near hot engine components.**
- **Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**
- **The fluid coming from the vehicle along with some of the machine's components that the fluid comes into direct contact with (i.e. hoses and fittings) may reach temperatures uncomfortable to the touch. Exercise caution in avoiding contact with these items.**

*Hot components can cause injury or discomfort.*

## CAUTION



Risk of injury.

- This equipment should be operated by qualified personnel only.
- Use this equipment only as described in this manual.
- Always unplug the machine from its power source when not in use.
- Loop the power cord loosely in its proper location when machine is not in use.
- Do not operate equipment with a damaged battery cables or hoses, or if the equipment has been dropped or damaged, until it has been examined by a qualified service representative.
- Care should be taken to arrange the battery cables and service hoses so that they will not be tripped over or pulled.
- Never pull on the power cables or service hoses to transport the machine. Damage may occur to these components, or machine may tip over.
- Keep area of operation clear of unnecessary tools and equipment. Utilize recessed tool storage areas on the top of the machine.
- Never leave the machine running unattended.
- The BrakeMate is not designed for any other purpose than the servicing of automotive brake systems.

*Operation of this machine by anyone other than qualified personnel may result in injury.*

## CAUTION

Misdiagnosis may lead to incorrect or improper repair and/or adjustment.

- Do not rely on erratic, questionable, or obviously erroneous test information or results. If test information or results are erratic, questionable, or obviously erroneous, make sure that all connections and data entry information are correct and that the test procedure was performed correctly. If test information or results are still suspicious, do not use them for diagnosis.

*Improper repair and/or adjustment may cause vehicle or equipment damage or unsafe operation.*

## IMPORTANT

Risk of equipment damage.

- Connect battery cables to a 12-volt power source only (i.e. vehicle's battery).
- Servicing, transporting, or storing this machine in an attitude other than the normal operating position can result in fluid spillage and/or component damage.
- Never pull on the power cables or service hoses to transport the unit. Damage may occur to these components, or machine may tip over. Always use the handle to move.
- Periodically clean the machine by wiping down with a clean, soft, dry cloth.

*Improper operation of equipment may result in damage to machine or components.*

**SAVE AND FOLLOW THESE INSTRUCTIONS!**



# DIMENSIONS & TECHNICAL SPECIFICATIONS

## DIMENSIONS:

39" Tall  
17" Wide  
31" Deep

**Service Hose:**  
15' outside of machine

**Wheels:**  
5" locking casters (front)  
5" casters (back)

**Fluid Tanks:**  
7-Quart New Fluid Tanks  
20-Quart Waste Fluid Tank

**Weight:**  
70 lbs

## TECHNICAL SPECIFICATIONS:

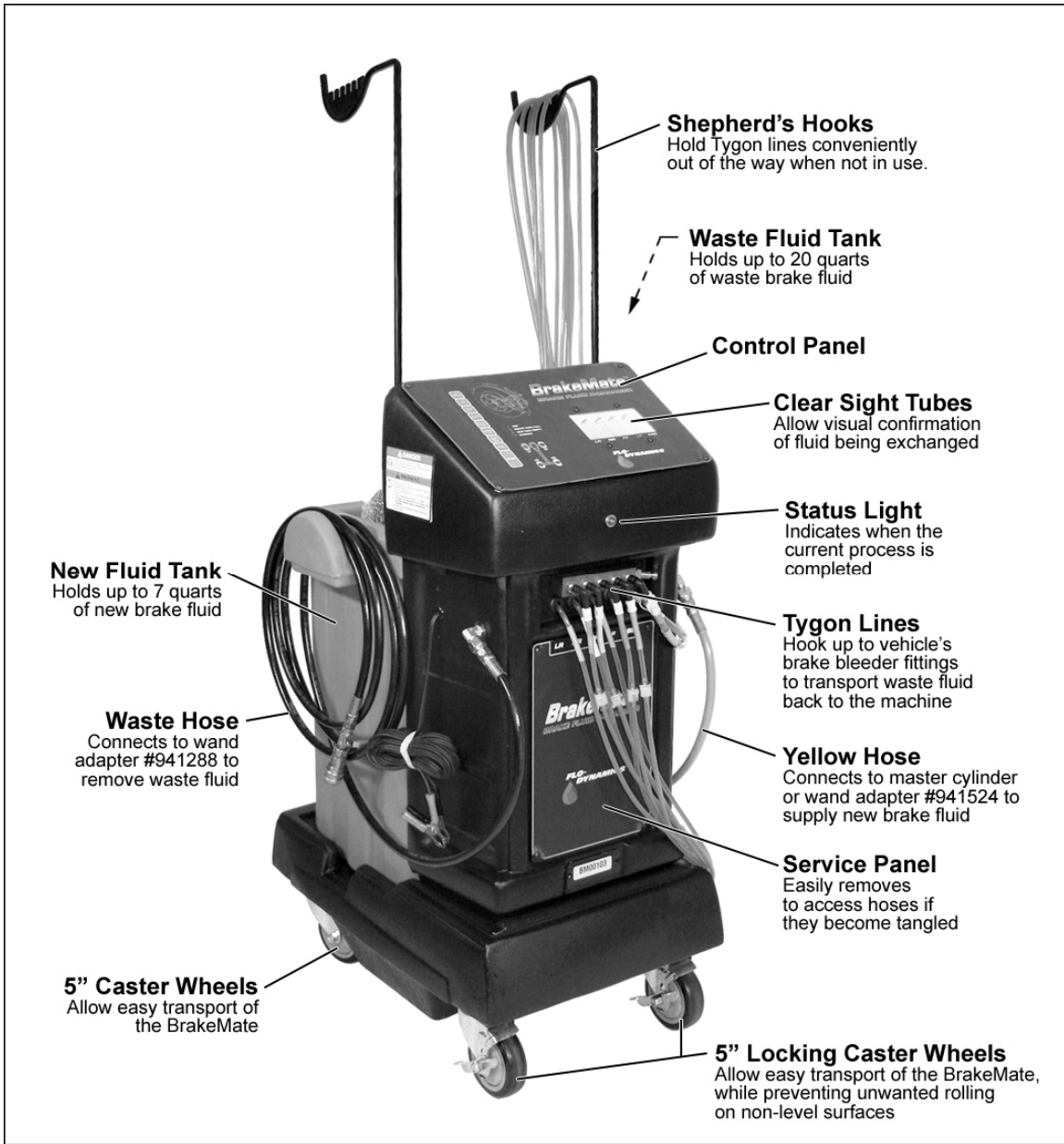
**Power:**  
12-Volt DC from vehicle battery

**Operating Temperature:**  
60° to 110°F (15° to 43°C)

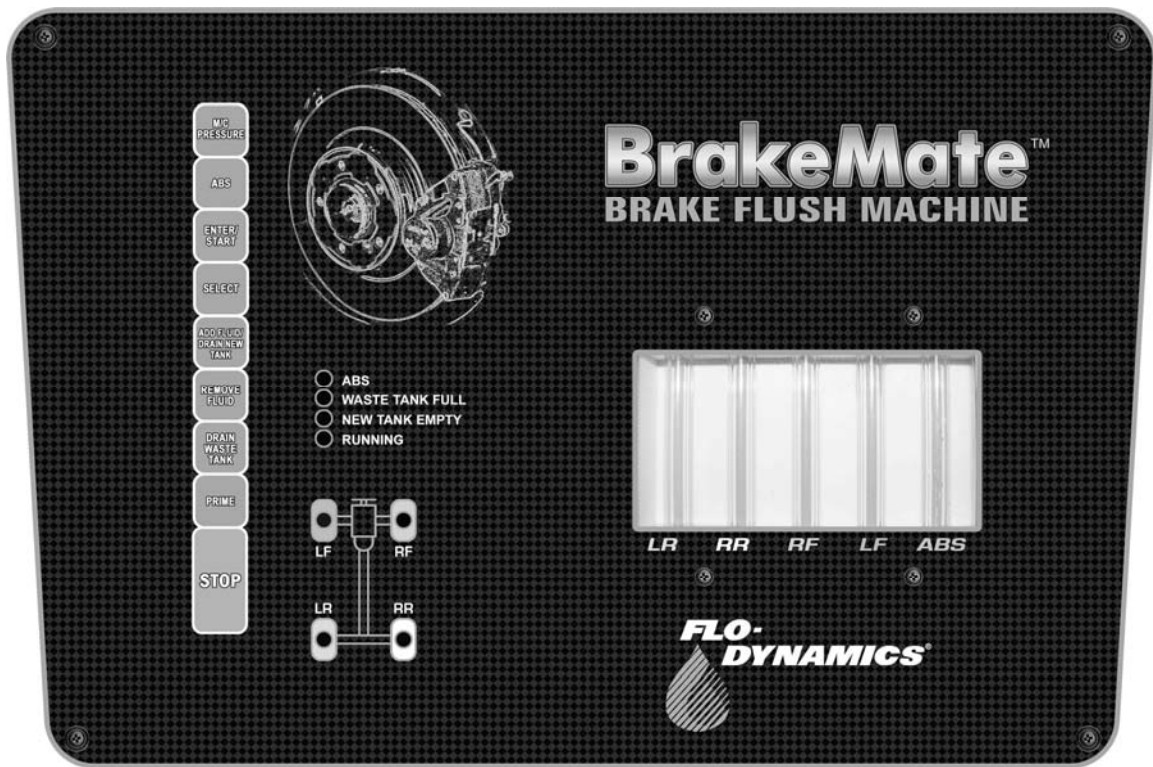
## FEATURES

- Durable roto-cast polyethylene body and tanks prevent vehicle damage
- Ergonomically correct working height
- 5" caster wheels allow easy maneuverability
- Clear sight tubes allow visual confirmation of new and waste fluid movement
- Easy access service panel

# MACHINE OVERVIEW



## CONTROL PANEL OVERVIEW



### BUTTONS

**Button:**

M/C PRESSURE

ABS

ENTER/ START

SELECT

ADD FLUID/ DRAIN NEW TANK

REMOVE FLUID

DRAIN WASTE TANK

PRIME

STOP

**Function:**

Pressurizes the master cylinder.

Toggles ABS function on and off.

Enter sequence wheel choice/start exchange.

Selects wheel sequence for exchange.

Pumps new fluid out of service hose.

1 Press- Pulls fluid through ABS line.  
Press and Hold - Pulls fluid through all 5 lines.

Drains waste tank through service.

Purges air out of service hose after machine is completely emptied of fluid.

Stops operations.

## **LED Lights**

### **Light:**

ABS

WASTE TANK FULL

NEW TANK EMPTY

RUNNING

### **Indication:**

ABS mode is turned on.

The waste fluid tank needs to be drained.

There is no more new fluid in the machine.

The brake flush is in progress.

# OPERATING PROCEDURES

**NOTE:** If machine will not prime or drain, remove service panel and locate solenoid valve (labeled #1). Loosen hose fitting until a small amount of fluid drips out. Tighten and reattempt prime or drain.

## MACHINE SETUP:

1. Fill New Fluid Tank with fresh brake fluid.
2. Connect the machine's battery cables to the vehicle's battery.
3. When the machine powers up you will notice the light on the front of the machine always stays lit telling you you're connected to power.
4. With all hoses on resting ports press the "PRIME" button.
5. Let machine run until you see fluid in the yellow Tygon lines.
6. Press "STOP" button.
7. Close ball-valve on service hose.
8. Hold "REMOVE FLUID" button down until all lights come on.  
*This will relieve pressure on the red manifold after priming.*

## DRAIN THE MASTER CYLINDER:

1. Remove ABS yellow Tygon line from holder and attach suction hose.
2. Remove the master cylinder cover and insert suction hose, then press the "REMOVE FLUID" button on the control panel.  
**NOTE: Leave a small amount of fluid in the bottom of the reservoir to make sure no air is introduced into the system.**
3. Press the "STOP" button when finished removing fluid.

## CONNECT TO THE MASTER CYLINDER:

1. Find and attach correct master cylinder adapter from adapter kit.
2. Attach yellow hose to master cylinder adapter and make sure the ball valve is in the open position.
3. Press the "M/C PRESSURE" button and verify that there are no leaks around the master cylinder cap. This button will pressurize the brake system so you can safely open the bleeder screws preventing air from entering the bleeder.  
**NOTE: Make sure the pressure hose is not putting any torque on the master cylinder adapter, which may cause leakage.**

## CONNECT TO THE BLEEDER VALVES:

1. Raise the vehicle.
2. Verify that all bleeder screws can be opened before attaching Tygon lines.
3. Attach Tygon lines to respective bleeder fittings.
4. Open bleeder screws about 1/4 turn until fluid begins to flow into the yellow lines.  
**NOTE: Make sure the bleeder stays open after you remove the wrench.**

## BEGIN THE FLUSHING PROCESS:

1. The lights on the board depicting the wheels of the car will flash from one to the next when no sequence is selected.

2. Select a sequence by touching the "Select" button until the wheel you want to service first is illuminated; then touch the "Enter/Start" button.
3. Repeat until all wheels have been selected.
4. Touch the "Enter/Start" button again after all wheels have been selected to start the flush.

### **DISCONNECT:**

1. Close all bleeder valves on vehicle.
2. Return to machine and hold "Remove Fluid" button down until vacuum pump begins to run and all four wheel lights illuminate on control panel.
3. Remove all yellow Tygon lines from bleeder fittings
4. Lower the vehicle.
5. Close ball valve on pressure line and carefully remove from adapter using rag.
6. Remove master cylinder adapter and verify fluid level in reservoir.

### **ADJUST FLUID LEVEL:**

#### **TOP OFF:**

1. Connect open end hose to yellow service hose and press "ADD FLUID" button.
2. Slowly open ball valve until fluid reaches the correct level.
3. Replace the master cylinder cover.

#### **REMOVE FLUID:**

1. Remove ABS line from holder and attach suction hose.
2. Remove the master cylinder cover and insert suction hose, then press the "REMOVE FLUID" button on the control panel.
3. Press the "STOP" button when finished removing fluid.
4. Replace the master cylinder cover.

### **TEST:**

1. Start vehicle and check brake pedal to ensure solid feeling.

### **DRAIN THE WASTE FLUID TANK:**

1. Connect the machine's battery cables to a 12V power source.
2. Connect open-end hose to black service hose and insert into appropriate disposal container.
3. Open the ball valve.
4. Press "DRAIN WASTE TANK" button on the control panel.

### **WARNING!**

**Brake fluid is highly corrosive, and will damage surfaces if not cleaned up promptly. Always check for brake fluid under the machine before storing, especially under the back of the machine where new fluid is filled. Any spills should be cleaned up immediately.**



# Brake Bleeder Adapter Application Chart

				Flo Part #					Flo Part #	
<b>BMW</b>		All	941592W	BA05						
<b>CADILLAC</b>	32V Northstar	1996-	941591W	BA04		328 GTS	941592W	BA05		
	Eldorado TC	1996-	941591W	BA04		F40	941592W	BA05		
	Seville SLS	1996-	941591W	BA04		Mondial T + convertable top	941592W	BA05		
	Seville STS	1996-	941591W	BA04		Testarossa	941592W	BA05		
	SRX	2003-	941591W	BA04						
	CTS (DOT3)	2001-	941591W	BA04		<b>FIAT</b>	Most	941592W	BA05	
	XLR	2003-	941591W	BA04		<b>FORD</b>	All older 2 tab models	941589W	BA02	
BLS	2005-	941592W	BA05			Cougar	1999-	941592W	BA05	
<b>CHEVROLET</b>	Alero	1999-	941591W	BA04			Courier	1995-	941592W	BA05
	Astro-Van	1996-	941598W	BA12	*		Escort	1996-	941592W	BA05
	Blazer	1996-	941591W	BA04			Explorer	1996-	941590W	BA03
	Blazer	1999-	941591W	BA04			Fiesta	1996-	941592W	BA05
	Camaro	1999-	941591W	BA04			Focus	1996-	941592W	BA05
	Corvette	1996-	941591W	BA04			Fusion	1996-	941592W	BA05
	Hummer H2 + H3	2003-	941591W	BA04			Galaxy	1995-	941592W	BA05
	S10 Pick-Up 2WD + 4WD	1996-	941591W	BA04			Galaxy	2003-	941592W	BA05
	Surburban	1996-	941598W	BA12	*		Maverick + Ranger	1996-	941590W	BA03
	Tahoe	1996-2002	941598W	BA12	*		Navigator (USA)	2001-	941590W	BA03
	Tahoe	2003-	941591W	BA04			Probe	-1992	941590W	BA03
Trans Sport	1999-	941591W	BA04			Probe	1993-	941592W	BA05	
Trail Blazer	2001-	941591W	BA04			Ranger	1999-	941592W	BA05	
<b>CHRYSLER</b>	Crossfire	2003-	941592W	BA05			Transit Van	1998-	941592W	BA05
	300M 2.7 Executive	1999-	941590W	BA03			Windstar	1996-	941590W	BA03
	300C Touring + Sedan	2005-	941588W	BA01		<b>GM</b>	All	941591W	BA04	
	Neon Sport 16V	1996-	941590W	BA03		<b>HONDA</b>	Civic/Accord/Prelude	1976-83	941594W	BA08
	Neon LE 1,6	2001-	941588W	BA01			Accord	1985-1992	941595W	BA09
	New Yorker	1996-	941590W	BA03			Accord	1996-	941595W	BA09
	PT Cruiser	2001-	941588W	BA01			Accord	1999-	941595W	BA09
	Sebring	2001-	941590W	BA03			Civi Shuttle	1999-	941593W	BA07
	Stratus	1999-	941590W	BA03			Civic	1992-	941594W	BA08
	Vision	1999-	941591W	BA04			Civic	1996-	941595W	BA09
	Viper	2003-	941588W	BA01			Civic (EJ 9)	1999-	941595W	BA09
	Grand Voyager	1999-	941590W	BA03			CRX 1,6	1999-	941593W	BA07
	Grand Voyager	2002	941588W	BA01			CRX 1,6	1997-	941595W	BA09
	Voyager LE	1996 -	941588W	BA01			HR-V	1999-	941595W	BA09
	Voyager SE	1994-	941588W	BA01			Insight	1999-	941595W	BA09
	Voyager SE 2,4	2001-	941588W	BA01			Legend	1991-	941595W	BA09
	Voyager LX 2,5	2001-	941588W	BA01			Logo	1999-	941595W	BA09
<b>DAEWOO</b>	Aveo	2005-	941592W	BA05			NSX-T (1981- =DOT3)	1999-	941594W	BA08
	Espero	1999-	941592W	BA05			Odyssey (US-Minivan)	1999-	941595W	BA09
	Evanda	2003-	941591W	BA04			Prelude	1991-	941594W	BA08
	Kalos	2003-	941592W	BA05			Prelude	1992-	941595W	BA09
	Lacetti	2003-	941592W	BA05			Prelude 2,0	1999-	941593W	BA07
	Lanos	1999-	941592W	BA05			S 2000	1999-	941595W	BA09
	Nexia	1999-	941592W	BA05			Shuttle	1997-	941594W	BA08
	Nubira	1999-	941592W	BA05		<b>HYUNDAI</b>	All	941590W	BA03	
	Nubira	2001-	941591W	BA04		<b>ISUZU</b>	Frontera	1989-	941594W	BA08
	Nubira WTCC R+	2005-	941592W	BA05			Monterey	1989-	941594W	BA08
<b>DAIHATSU</b>	Charmant	1989-	941593W	BA07			Rodeo	2005-	941594W	BA08
	Copen	2003-	941594W	BA08			Trooper	-1989	941593W	BA07
	Cuore / Charade	-1989	941593W	BA07			Trooper	1989-	941594W	BA08
	Cuore (L701)	1999-	941594W	BA08		<b>JAGUAR</b>	Jaguar XJ Twin TD	2005-	941592W	BA05
	Cuore (L251)	2005-	941594W	BA08			Jaguar XKR	1999-	941592W	BA05
	Move (L901)	1999-	941593W	BA07			Jaguar XJR	1999-	941592W	BA05
	Gran Move (G301)	1999-	941593W	BA07			Jaguar Sovereign 4.0	1999-	941592W	BA05
	Sirion (M100; M101)	1999-	941593W	BA07			Jaguar S-Type V8	1999-	941590W	BA03
	Sirion (100,M101,M111)	2003-	941594W	BA08			Jaguar S-Type R	2003-	941592W	BA05
	Terios (J102)	1999-	941596W	BA10			Jaguar X-Type	2001-	941592W	BA05
YRV (M201)	1999-	941593W	BA07			Jaguar Daimler Super V8	1999-	941592W	BA05	
<b>FERRARI</b>	Alle Pkw	1999-	941592W	BA05		<b>JEEP</b>	Jeep Cherokee	1995	941590W	BA03
	328 GTB	1999-	941592W	BA05			Jeep Cherokee	1996-	941588W	BA01
							Jeep Wrangler	1996-	941588W	BA01
							Jeep Wrangler Sport	1999-	941588W	BA01





# Brake Bleeder Adapter Application Chart

			Flo Part #				Flo Part #			
<b>JEEP</b>	Jeep Wrangler	2003-	941588W	BA01	<b>ROVER</b>	All	941590W	BA03		
	Jeep Grand Cherokee	1996-	941588W	BA01		<b>SAAB</b>	All	941590W	BA03	
<b>KIA</b>	Carens	1999-	941590W	BA03	<b>SUBARU</b>	Coupe 1800	1988-	941590W	BA03	
	Carens	2001-	941592W	BA05		Forester	1999-	941590W	BA03	
	Carnival	1999-	941592W	BA05		Forester	2000-	941590W	BA03	
	Carnival	2005-	941590W	BA03		Impreza 1,8GL		941590W	BA03	
	Cerato	2005-	941590W	BA03		Impreza 4WD	1998-	941590W	BA03	
	Clarus	1997-	941592W	BA05		Impreza WRX	2001-	941590W	BA03	
	Joice		941590W	BA03		Justy	2003-	941590W	BA03	
	Magentis	2001-	941590W	BA03		Legacy	1995-	941590W	BA03	
	Opus	2003-	941592W	BA05		Legacy +Kombi	1999-	941590W	BA03	
	Picanto	2005-	941590W	BA03		Outback	1989-	941590W	BA03	
	Rio	2000-	941593W	BA07		Sedan 1800 4WD		941590W	BA03	
	Rio	2003-	941590W	BA03		<b>SUZUKI</b>	Alto	1996-	941592W	BA05
	Pride	1995-	941593W	BA07			Samurei	1993-	941592W	BA05
	Sephia	1995-	941592W	BA05			Samurei Van	1989-	941593W	BA07
Shuma	2000-	941592W	BA05	Samurei Van + Pick Up	1999-		941592W	BA05		
Sorento	2003-	941592W	BA05	SJ Samurei + SJ 413	1985-		941593W	BA07		
Sportage	1995-	941592W	BA05	<b>TOYOTA</b>	Avensis	1998-	941592W	BA05		
<b>LAMBORGHINI</b>	All	941592W	BA05		4-Runner	1996-	941596W	BA10		
<b>LAND ROVER</b>	All	941592W	BA05		Camry	1993-	941596W	BA10		
<b>LEXUS</b>	All	941596W	BA10		Camry		941597W	BA11		
<b>MASERATI</b>	3200 GT	1999-	941592W		BA05	Carina	1993	941596W	BA10	
	Quattroporte	1999-	941592W		BA05	Celica 4WD		941597W	BA11	
<b>MAZDA</b>	121	1995-	941590W		BA03	Celica GT 2,0 / GT 1600		941597W	BA11	
	121 LX		941593W		BA07	Celica GT 2,0 / GT 1600	2001-	941596W	BA10	
	2	2003-	941592W		BA05	Celica CS	2003-	941596W	BA10	
	3	2003-	941592W		BA05	Corolla		941597W	BA11	
	5	2005-	941592W		BA05	Corolla E11		941596W	BA10	
	626 LX / GLX		941593W		BA07	Corolla 1993-		941596W	BA10	
	6	2003-	941591W		BA04	Corolla 1996-		941597W	BA11	
	B2500 Pickup 4WD	1998-	941592W		BA05	Corolla 1972-1986		941597W	BA11	
	B-Serie 2.5L TD	1999-	941592W		BA05	Corolla 2003-		941592W	BA05	
	Demio	1998-	941593W		BA07	Cressida	1977-1981	941592W	BA05	
	Luxus / LX + Sport		941593W		BA07	Crown	1985-	941593W	BA07	
	MPV	1999-	941590W		BA03	Landcruiser		941593W	BA07	
	MPV	2001-	941591W	BA04	Landcruiser HJ100		941596W	BA10		
	MX-5	1999-	941590W	BA03	Landcruiser 2003-		941596W	BA10		
	MX-5	2005-	941592W	BA05	MR-2	2003-	941596W	BA10		
	Premacy		941591W	BA04	Previa		941596W	BA10		
	RX-8	2003-	941591W	BA04	Prius	2001-	941596W	BA10		
Tribute	2001-	941590W	BA03	RAV 4	1996-	941596W	BA10			
<b>MERCEDES-BENZ</b>	All	941592W	BA05	EAV-4	2003-	941596W	BA10			
<b>MINI</b>	All	941592W	BA05	Starlet		941597W	BA11			
<b>MITSUBISHI</b>	All	941590W	BA03	Tercel		941597W	BA11			
<b>NISSAN</b>	100 NX	1993-	941590W	BA03	<b>VOLVO</b>	All	941592W	BA05		
	200 NX	1993-	941593W	BA07	<b>VOLKSWAGEN</b>	All	941592W	BA05		
	200 SX	1995-	941590W	BA03	Beetle	1998-2002	941592W	BA05		
	200 SX - Turbo	Maxima 3,0		941593W	Beetle	2003-	941592W	BA05		
	350Z	2003-	941590W	BA03	Caddy	2005-	941592W	BA05		
	Almera	1995-	941590W	BA03	EOS	2005-	941592W	BA05		
	Maxima QX	1995-	941590W	BA03	Multivan	2003-	941592W	BA05		
	Pathfinder + RS1	2005-	941590W	BA03	1500 Typ 1		941593W	BA07		
	Patrol GR TD6	1999-	941590W	BA03	1500 / 1600 Typ 3		941593W	BA07		
	Patrol Turbo D		941593W	BA07	411 / 412 Typ 2 (28 Durchm.)	1988-	941593W	BA07		
	Patrol		941593W	BA07	LT 28		941593W	BA07		
	Pick Up	2001-	941590W	BA03	Lupo		941593W	BA07		
	Pick Up	2001-	941590W	BA03	Sharan -2002		941592W	BA05		
	Altimax and Xterra		941595W	BA13	Sharan 2003-		941592W	BA05		
<b>PONTIAC</b>	Firebird + Cabrio		941591W	T4	1994-	941592W	BA05			
Trans Sport		941591W	BA04							
<b>PORSCHE</b>	All	941592W	BA05							
<b>RENAULT</b>	All	941592W	BA05							

NOTE: New for Older GM and Chrysler 941599W BA14



# REPLACEMENT PARTS LIST

Part #	Description
<b>941587W</b>	Control Panel w/ Electronic Board & Label
<b>941504</b>	Manifold w/ Solenoids
<b>941519</b>	Sight Glass Tube
<b>941502</b>	Pressure Side Pump
<b>941503</b>	Waste Drain Pump
<b>941545</b>	Vacuum Side Pump
<b>R941251</b>	Level Switch
<b>941506</b>	Pressure Switch
<b>941546W</b>	Battery Cable Assembly
<b>941416</b>	Master Cylinder Adapter Kit
<b>941510</b>	Service Hose w/ Ball Valve
<b>941512</b>	Yellow Tygon Line
<b>941513</b>	Quick Disconnect Fitting <i>(for Tygon Lines)</i>
<b>941500</b>	Large Bleeder Nipple Adapter
<b>941501</b>	Small Bleeder Nipple Adapter
<b>941509</b>	Internal Hose Kit
<b>941540</b>	Yellow Service Hose
<b>941288</b>	Wand Adapter (Waste Fluid)
<b>941524</b>	Wand Adapter (New Fluid)
<b>R940750</b>	Chassis
<b>R940751</b>	Console
<b>942113</b>	Tank Cap
<b>941520</b>	New Fluid Tank (White)
<b>941252</b>	Used Fluid Tank (Red)
<b>941508</b>	Service Panel Label
<b>P941530</b>	Shepherd's Hook
<b>941261</b>	Vinyl Mat
<b>R942118</b>	Locking Caster Wheel
<b>R942137</b>	Caster Wheel
<b>941522</b>	Operations Manual
<b>941523-O</b>	Operations Overview/ Adapter Sheet

 <p><b>941502</b> <i>Pressure Side Pump</i></p>	 <p><b>941503</b> <i>Waste Drain Pump</i></p>	 <p><b>941545</b> <i>Vacuum Side Pump</i></p>
 <p><b>R941251</b> <i>Level Switch</i></p>	 <p><b>941506</b> <i>Pressure Switch</i></p>	 <p><b>941504</b> <i>Manifold w/ Solenoids</i></p>
 <p><b>P941530</b> <i>Shepherd's Hook</i></p>	  <p><b>941500</b> <i>Large Bleeder Nipple Adapter</i></p> <p><b>941501</b> <i>Small Bleeder Nipple Adapter</i></p>	 <p><b>941261</b> <i>Vinyl Mat</i></p>

To order replacement parts for the BrakeMate, call:

**1-800-303-5874**

## **MAINTENANCE**

*To keep your machine working properly...*

- Keep debris out of new fluid.
- Avoid spilling fluid on the control panel.
- Periodically wipe down exterior using a soft, damp cloth.

## **CUSTOMER SERVICE CONTACT INFORMATION**

If you are experiencing problems with this machine,  
call technical support at:

**1-800-303-5874**

## LIMITED ONE (1) YEAR WARRANTY

Flo-Dynamics warrants only to the original Purchaser that under normal use, care and service, the Equipment (except as otherwise provided herein) shall be free from defects in material and workmanship for one year from the date of original invoice. External hoses, remote control modules, adapters and all other attachments, supplies and consumables (except as otherwise provided herein) are warranted for 90 calendar days from the date of original invoice. Filter elements are not warranted. Printed circuit boards purchased from, but not installed by Seller are not warranted.

**SELLER'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED SOLELY TO THE REPAIR OR, AT SELLER'S OPTION, REPLACEMENT OF EQUIPMENT OR PARTS WHICH TO SELLER'S SATISFACTION ARE DETERMINED TO BE DEFECTIVE AND WHICH ARE NECESSARY, IN SELLER'S JUDGEMENT, TO RETURN THE EQUIPMENT TO GOOD OPERATING CONDITION. NO OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED.**

This warranty does not cover (and separate charges for parts, labor and related expenses shall apply to) any damage to, malfunctioning, inoperability or improper operation of the Equipment caused by, resulting from or attributable to (A) abuse, misuse or tampering; (B) alteration, modification or adjustment of the Equipment by anyone other than Seller's authorized representatives; (D) improper or negligent use, application, operation, care, cleaning, storage or handling; (E) fire, water, wind, lightning or other natural causes; (F) adverse environmental conditions, including, without limitation, excessive heat, moisture, corrosive elements, or dust or other air contaminants, radio frequency interference, electric power failure, power line voltages beyond those specified for the equipment, unusual physical, electrical or electromagnetic stress, and/or any other condition outside of Seller's environmental specifications; (G) use of the Equipment in combination or connection with other equipment, attachments, supplies or consumables not manufactured or supplied by Seller; or (H) failure to comply with any applicable federal, state or local regulation.

Repairs or replacements qualifying under this Warranty will be performed on regular business days during Seller's normal working hours within a reasonable time following Purchaser's request. **All requests for Warranty service must be made during the stated Warranty period.** This warranty is non-transferable.

