



PRODUCT SPECIFICATION



# WYNN'S® BRAKETECH™ II RAPID BRAKE FLUID EXCHANGE MACHINE

- Extremely user friendly.
- Provides a complete brake system flush.
- Individual or simultaneous bleeding of all four wheel cylinders with individual color-coded toggle switches.
- Combination of pressure at the master cylinder and vacuum at the wheel cylinders provides for a fast, complete service.
- New fluid-container float switch prevents emptying of the master cylinder reservoir.
- Compatible with conventional and ABS brake systems.
- 12V DC power.
- Compact, durable roll-around chassis.
- Easy-to-use adapters for virtually all vehicles.

Specifically designed for use with Wynn's DOT 3 and DOT 4 brake fluid.

Part #	Description	Price
09500	Product BrakeTech II Machine	
09501	BrakeTech II Machine w/Adapter Set	

Height.....40.25 in.  
 Width.....26.5 in.  
 Depth.....18.5 in.  
 Weight.....50 lbs.



Complete Automotive Maintenance Programs



1050 W. FIFTH STREET / AZUSA, CA 91702  
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# WYNN'S® BRAKETECH™ II RAPID FLUID EXCHANGE MACHINE

## The Problem

Brake fluid is a very important, yet an often neglected automotive fluid. Topping off or bleeding brake fluid is often part of a brake component service, such as changing brake pads or shoes. Even though many OEM's recommend replacing brake fluid at regular intervals, complete brake flush services are not performed nearly as often as they should be.

There are many different methods available for replacing brake fluid, including manual methods, and those involving either pressure or vacuum bleeding. Some of these methods require more than one person to perform the service. Most — if not all — are very time consuming and tedious, as all traditional methods require the bleeding of one wheel cylinder at a time. The effectiveness of the process is often subjective or uncertain.

In passenger cars, light trucks and many other vehicles, the brake system is a hydraulic system. The main function of the fluid is to act as a hydraulic fluid. Yet the fluid also needs to lubricate moving components in the brake system, keep brake system seals properly conditioned and provide protection against corrosion. When the brake pedal is applied, fluid pressure in the brake lines causes either the brake pads to squeeze the rotor in a disc brake system, or the brake shoes to press against the drums in a drum brake system. This hydraulic action slows the vehicle or brings it to a stop.

The most common brake fluids are DOT 3 and DOT 4, which differ mainly in their boiling point, with DOT 4 having a higher boiling point than DOT 3. Brake fluid operating temperatures increase under severe operating conditions; a high boiling point fluid provides an extra margin of safety. Brake fluid is hygroscopic, meaning that it readily absorbs water from the atmosphere. Neglecting brake fluid replacement can lead to water buildup in the brake fluid. This can ultimately lead to a safety issue as the boiling point of the fluid decreases with increasing water content. If the brake fluid contains a high level of water and the brakes are operated under hot or otherwise severe conditions, the water in the fluid can boil, forming a compressible vapor that can compromise the hydraulic brake function and lead to brake failure. In addition, excessive amounts of water in the brake system can lead to corrosion of system components and possible premature failure.

Brake fluid also becomes contaminated with wear material from brake system components and airborne debris when the fluid level is checked or topped-off. In addition, because brake fluid is a hydrocarbon based fluid, it is also subject to oxidation-caused breakdown over time from exposure to high temperatures. Based on all these factors, brake fluid replacement is an important service from both a safety and brake system longevity standpoint.

## The Solution

Wynn's® BrakeTech II™ Rapid Fluid Exchange Machine provides a simple, fast and complete brake system flush service. The machine is operated via individual color-coded toggle valves that correspond to each of the color-coded bleed hoses. This provides the capability for bleeding all four wheels individually or simultaneously. The machine connects to the master cylinder reservoir via a set of adapters and uses pressure to direct new brake fluid into the system. Vacuum is applied at each wheel cylinder to draw out the used fluid. This combination of pressure and vacuum provides a complete fluid exchange in about 5 minutes. When combined with the initial adapter hook-up and removal time, the complete service can be performed in under 15 minutes.

The machine is specifically designed for use with Wynn's DOT 3 and DOT 4 fluid that is packaged in 2-quart containers. A float switch integrated into the new fluid pick-up tube signals a light mounted on the control panel when the service is complete. This helps prevent the master cylinder from emptying and potentially allowing air into the system. Used brake fluid is delivered into an on-board 2-quart container, facilitating easy disposal at the completion of the service.

Wynn's BrakeTech II Rapid Brake Fluid Exchange Machine has a compact, lightweight and extremely durable rotomolded plastic chassis on sturdy wheels to allow for easy movement around the shop, and is powered by 12V DC. The toggle switch control makes the machine extremely user friendly. Easy-to-attach fittings are available to allow servicing of virtually all passenger cars and light trucks, including those with conventional and ABS brakes, with no special service procedures. Using the BrakeTech II Machine with the proper master cylinder adapter provides a complete fluid exchange, and at the same time can eliminate any air in the brake system during the service.

Wynn's BrakeTech II Rapid Brake Fluid Exchange Machine is the answer for shops that want to provide their customers with this important and safety-conscious service. Eliminate the conventional time-consuming and uncertain fluid exchange service with a fast, easy and complete service performed with a user-friendly machine that technicians will understand and use.



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