

Replacing the Fairmont Hydraulic Pump and Scavenging for a Fairmont Turntable.  
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Technical Assistance Roger Lee and Tim Von Rader

### Replacing the original Fenner-Stone pump

If you have an original Fairmont turntable and your pump goes bad, you must replace the entire hydraulic unit. Roger Lee of Agoura Hills, CA learned this when he purchased his MT-14M motorcar and discovered that the original equipment manufacturer (OEM) turntable would not lift the car properly. The 12 volt motor ran but, the submersed plastic pump in the tank was worn out and would not generate enough pressure. Tim Von Rader at Taylor Hydraulics in Oxnard, CA (805-492-7868) tried to find the plastic pump. It was originally considered a "throw away" pump to be replaced as a unit and for which individual replacement parts are not stocked. Tim says the pump is no longer made. To double check this information, the writer made a call to Fairmont who had contracted with Fenner-Stone to make the Fairmont hydraulic units with a custom one quart fluid tank. Fenner-Stone says they no longer make the unit, and Fairmont has none in stock anywhere.

Tim installed in Roger's car a Fenner DC-30 power unit (Baileynet.com number 251-081) that includes motor and pump in place of the hydraulic unit. This Fenner unit must move forward on the mounting plate so that the 3 quart tank does not stick out the back of the car. The Fenner DC-30 uses 3/8" NPTF fittings that match the original pump fittings and enables the use of the original 90 degree elbows and hoses. Use caution when hooking up the hoses. If hooked up backward the Fairmont control valve will get blown out! Either use help from the local hydraulic shop for the original hook up or to rebuild the blown valve.

### Scavenging for a Fairmont Turntable

The Fairmont turntable design, using a hydraulic cylinder to provide lift, goes higher and operates much faster than the screw jack design. This superior performance is justification for the expense of a hydraulic unit. Complete Fairmont turntables are available from time to time as "take off" units when someone parts out a car. In 1998 such a unit cost \$1,500 when installed in my first car. After purchasing another MT14M last year, nothing less than a Fairmont design turntable would do for it too. However, no complete unit was available for sale. Instead a scavenger hunt for individual parts began.

The wanted listings on the NARCOA site produced an assembly which included the turntable support bracket (410203), hydraulic cylinder (410212), and turntable base (410220). Today these used parts are available from Newman Machinery in Phoenix, AZ (602-952-0035). A new old stock (NOS) hydraulic unit mounting plate (410231) came from Brown Railroad Equipment, Inc (618-797-5484). The price for this NOS mounting plate may seem high, but having a welding shop fabricate the "Z" shaped plate with its' many holes, notches, and other angle cuts, would be just as expensive. By the way, Dan Brown has most of Fairmont's NOS inventory. With the original control valve and pump out of stock, my scavenger hunt had come up short.

Tim Von Rader at Taylor Hydraulics found the pump and valve replacement solution that enabled the project to be completed. Tim installed a Monarch Dyna-Jack 12 VDC Power Unit, manufacturer number M-310, Baileynet.com number 250-528. This

hydraulic unit comes with a 4-way valve and cam-actuated motor start switch. The operator just moves the double acting lever up or down and the motor runs creating 2000PSI. The reservoir holds 2.1 quarts; the unit weighs 35 pounds, is 18 inches long, and attaches easily to the Fairmont mounting plate after drilling three additional holes. The control valve and the piping to the pump required some modification to fit in the available space. Taylor Hydraulics can make up a unit and ship it or you can use the attached photos as a guide. The only wiring need is a heavy cable from the solenoid to the positive side of the battery.

Finally, some people have used Haladex hydraulic units available from Northerntool.com and Baileynet.com. These units have design drawbacks compared to Fenner and Monarch. First, some Haladex units must be ruled out because, they are lowered by gravity and therefore unsuitable for getting the turntable all the way back up. Second, some Haladex units use switch control of solenoid operation that provides 100 percent power in both up and down operation with no valve regulation of pressure/speed. The Haladex units that do have a valve control are more expensive than Fenner or Monarch based on web site price comparisons. Third, all Haladex units use SAE 6 ports (9/16-18) that require adaptors or new hoses for hookup to the OEM fittings.

In summary, if you already have an OEM design turntable and the pump fails, replace it with a Fenner DC-30 (Baileynet.com number 251-081). You can assemble a Fairmont turntable by scavenging for support brackets, turntable bases, etc and adding a new Monarch power unit. It is three to six inches shorter than the Fenner unit. Refer to the last four pages of the Fairmont MT14-M manual for turntable diagrams and parts listings. The only difference between the MT14 and MT19 Fairmont turntables are the mounting plates the hydraulic units sit on and the support plate for the turntable lock handle. With slight modifications they will all work in either car. Good hunting!

Note: Since this article came out in 2005, finding OEM Fairmont turntable parts has become even more difficult. In particular, Dudley Newman does not have any turntable parts left for sale. 11/27/2007