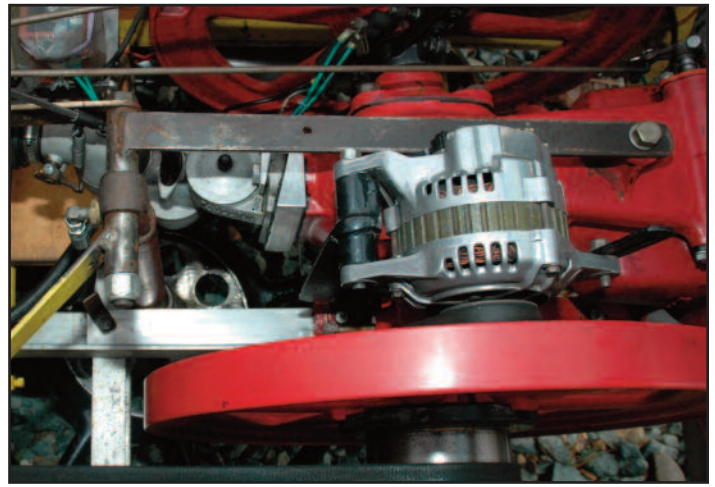




Using a custom hydraulic turntable, Tony Queirolo turns his S2 car that he rebuilt while recovering from heart surgery.



A wedge angles the carburetor making room for the hydraulic lift cylinder at frame left.

TURNTABLE ON S2

BY WAYNE PARSONS

Tony Queirolo from Lathrop, CA has nicely restored a S2 that he found in the weeds. Starting with little more than a frame and an engine, he has built up a very nice car with lots of shiny stainless steel. He used junk yard parts to make a very serviceable hydraulic turntable operated by a hand pump. His design is particularly clever when you consider that the balance point of the car goes right through the space occupied by the C5 carburetor at the back of the RQD two-cycle engine. In other words, the hydraulic lift cylinder and the carburetor needed to occupy the same space!

He accomplished this magic trick by making a wedge on which the carburetor now mounts. This put the carburetor and

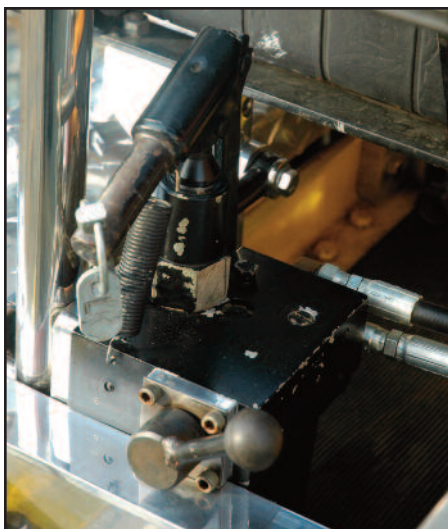
air intake off on an angle that does not effect engine aspiration. Tony is very handy at metal working and welding. During years in the trucking business he has always done his own mechanical work including engine rebuilding. With the resources of his machine shop, making a hydraulic turntable for the S2 seemed an easy challenge.

The round turntable foot is actually a modified boxcar hand brake wheel! The hydraulic lift cylinder was "lying around the shop," and probably came from a dump truck gate. Tony says the only cash outlay for the project was \$12 at a junk yard for the hand operated hydraulic pump that once raised and lowered a semi-tractor-truck cab. He had to make sure the pump was a modern one with a valve that creates

pressure in both directions. This two way action retracts the turntable foot after the car has turned.

The lift cylinder is attached at the bottom to a frame cross member located in the center of the car. A support bracket with three arms stabilizes the top of the cylinder. Two arms go to the sides of the tunnel and one arm goes to a stud on the top of the RQD engine (where a fuel tank would attach if the engine had a stationary application).

Tony is glad to talk about and show everyone his S2 turntable. However, you should know that his other hobby is cooking. He prepares food for charity fund raisers making meals for as many as 650 people at one time. After talking about his machine shop, ask him about his kitchen!



This hand pump came from a truck cab. The lever operated valve sends the turntable up or down.



A rod from the side of the car serves as the safety lock. The hydraulic cylinder is mounted to the frame member in the center of the car. A boxcar brake wheel (with some modifications) serves as the turntable foot. *Photos by Wayne Parsons*