

# The Line Shaft

*The Official Newsletter of the*

**NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB**

February 2015



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(973) 997-5284

**Our Web Address: [njaemc.org](http://njaemc.org)**

*Founded on October 15th, 1979 by: Arthur Goble, Fred W. Westbrook, John Snook, Roy Bischoff & Lewis Quince*

The January 8th meeting was held at the administration meeting and there were 13 members attending. Blace again discussed the 75th Anniversary of the *Sussex County Fairgrounds* and the possibility of the club generating income for the Fairgrounds during the next *New Jersey State Fair* in August 2015. This will continue to be a discussion topic at future meetings and we are still looking for ideas and participation from the membership.

As in the past, we need someone to donate a pedal tractor and a quilt to raffle off at the fair.

**We are still looking for someone to step up...and become an officer.**

Please take a few moments and think about the club and what its meant to you in the past and perhaps it is time to give something back. Any questions or thoughts should be directed to: Dave Betts (973) 303-1994 or Chuck Klim (973) 948-7458 or any of the current board members whose, phone numbers are above.

## **REMINDER: 2015 DUES ARE DUE!**

**Annual dues are \$25.00 and payable by the February meeting or**

**send to:**

**NJAE&MC Anne Marie Adams**

**PO Box 2103**

**Branchville, NJ 07826**

*Our next meeting will be at 7 PM on February 12th at the Administration Building!*

## The Maytag Company



The Maytag Company was originally founded in 1893 by Frederick L. Maytag with his two brothers-in-law and George Parson as the *Parsons Band-Cutter & Self Feeder Company*...a farm implement manufacturer. They produced threshing machines, band-cutters and self feeder attachments. Eventually Frederick became the sole owner of the company and renamed it the *Maytag Company*. By the turn of the century they were a "major" farm implement manufacturer, but had also diversified into other lines of manufacturing and products.



In 1905 they produced their first rudimentary hand crank washing machine. The manufacturing of washing machines was intended to solve the problem of seasonal slumps in the farm implement business and to replace the hand labor and drudgery of using the washboard. The 1907 Maytag "Pastime" washers had a wooden tub with a hand crank that turned a dolly with wooden pegs...which in turn pulled the clothes thru the water and against the corrugated tub sides. Improvements to their early washing machine quickly followed, including a pulley drive system that allowed it to be powered by wind mills, water wheels or farm tractors.

In 1910, Frederick left the day-to-day farm implement company operations in the hands of his sons to concentrate on other business areas including new innovations of their washing machine. In 1911 an electric powered model was introduced and four years later Maytag mated their washer to a gasoline engine, which became a "must-have" for rural homemakers...who as yet did not have access to electric power. The washer was "optionally" powered by a Maytag developed and manufactured gasoline engine...branded as the **Multi-Motor**. The first engine was called the UPRIGHT and was manufactured between 1915 and 1923. It would be followed by the FRUIT JAR engine from 1921-23 and the Model 82 from 1924 thru 1927.

In 1919 the company had succeeded in casting the first aluminum washer tub, which eliminated many problems inherent in wooden tub construction. Expansion into a national company and world leadership came during the early years of the 1920's under L.B. Maytag, son of the founder, who served as company president between 1920 thru 1926. L.B. also conceived a new washer design that replaced the dolly with an agitator in the tub. Howard Snyder, a former mechanic and inventive genius heading up Maytag's Development Department, worked out the details of the new design and came up with one of the most significant inventions in laundry appliance history. His revolutionary innovation was the addition of vanes to the agitator, which "forced" water "thru" the clothes.

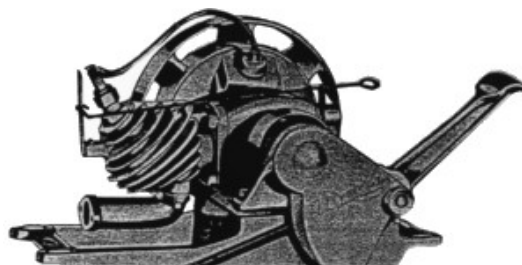


Maytag first introduced this type washer in 1922, and it was a great success. The new washer design put Maytag exclusively into the washer business, prompted the end of farm equipment manufacturing and propelled the company to a "dominant" position in the emerging laundry appliance industry. Trainloads of Maytag "Gyrofoam" washers shipped from the Newton, Iowa plant and by 1927 the company had produced its first million washers. Maytag would be one of the few American companies to continually remain profitable thru-out the Great Depression.

## *Maytag Model 92 Multi-Motor...the engine that put Maytag in the books!*

The Model 92 was a 3/4 HP 2 cycle 2 1/2" bore by 2" stroke gasoline engine and the first in the Maytag line of engines to have an engine connected kick start. It was installed on a long line of Maytag produced washers and was adaptable to others. It was produced between 1927 and 1937.

Most hit & miss engines are of a 4-cycle design and control their top end speed by dropping the compression, stopping the fuel, and cutting out the ignition while coasting...the Maytag series of engines "only" cut out the ignition. The engine continues to build compression and draw gasoline thru the cylinder when not firing; and were extremely inefficient, a fuel waster and a big polluter...but were cheap to build. Some "factions" within the antique engine community do not consider it a true hit & miss engine...most do.



The last Multi-Motor engine was the Model 72, produced from 1937 thru 1952, with the exception of the war years.

The Multi-Motor engines would find themselves grafted into other equipment and utilized in a multitude of applications, particularly as farms became electrified and the washing machines engines were replaced by electric motors. The engines were removed and adapted to other uses around the farm. They also found their way into other manufacturers products as they were a low cost, simple and self contained power plant.

A rather unique use of the Multi-Motor engine was in the Maytag Toy Racer. There had been a limited number of hand built one-off powered go-carts, wagons and toy cars built during the 1920's and powered by the Maytag line of engines. These carts and toy cars were often used as carnival attractions and in parades. The *Winston Corporation* of Joliet Illinois appear to have been the only large scale builder of Multi-Motor powered racers prior to 1930. In the early 30's Maytag decided to join them by producing an upscale and stylish toy car for the children of the wealthy and for their own promotional appearances, featuring the Maytag 92 engine. They would continue to produce this toy car until 1941 , when they "geared-up" for war materials production.



An offshoot company is the *Maytag Dairy* that, since the early 40's, has been producing Maytag Blue Cheese and other fine cheeses found on-line or at upscale markets. Also Frederick "Fritz" Maytag III, great grandson of the founder, bought a failing regional brewery in the 1960's and sent *Anchor Steam Beer* nation-wide...often helping his competitors, he is considered the father of the mico-brewery industry.



***The club has a Multi-Motor in the shed!***

The first Maytag automatic washer was produced in 1949 and the first Laundromat friendly commercial "coin-operated" models was produced in 1958. Maytag fell on hard times after the turn of the New Century.

**In 2005, Maytag was purchased by and is now a subsidiary of Whirlpool Corporation.**

# MARKETPLACE

**For Sale: Wheel Horse Lawn Tractor...needs motor work , no attachments,  
\$200.00 or BEST OFFER...Call Danny H. 862/266-7362**

**For Sale: Allis-Chalmers 410 garden tractor w/36" rear tine rotor-tiller...10 HP Kohler, shuttle drive...runs, but needs work!  
\$250.00 or BEST OFFER...delivery available...Call Dave Betts 973/303-1994**

**For Sale: Steam bent ash plow handles, \$30.00 a pair  
Call Bruce Mitchell 973/702-1012**

**For Sale: McCormick-Deering Farmall Model A 1944  
Call John Stickle 862/397-3782**

**For Sale: 1952 Ford 8N w/grader blade & York Rake, asking \$2,500.00  
Call Jim Dunlap 973/219-9694**

**Wanted: Manuals & Parts for Witte 6-HP horizontal diesel  
Call Andy Mackey 862/432-1552**

**Wanted: Front dozer blade for 1953 Huber M180 Road Maintainer  
glenn\_hermel@excite.com or 201/787-3275**

**For Sale: 1920ish IH 1-bottom steel wheel pull behind plow, \$100.00  
Call Jeff 973/997-5284**

**Wanted: Small boat trailer for 12' fishing boat  
Call Dave 908/303-1994**

*A donation to the club would be appreciated  
if the item is SOLD!*

**Dustless  
Blasting**  
Eco-Friendly On-Site  
Blasting

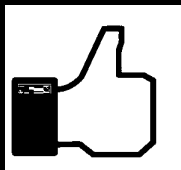


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