



HIT 'N' MISS

Newsletter of the
Western Antique Power Associates

www.wapa.us

SEPTEMBER, 2016

President's Report By Ron Haskell

How many of you have had an extremely challenging project that turned out well and was really satisfying? I am about to complete such a project and thought I would share it with you.

It starts with an old friend that I went to college with and now lives in Georgia still teaching college classes in how to teach science to kids, and he goes all over the country and overseas giving science demonstrations with his nonprofit Science Zone.

He recently contacted me wondering if I would build a reverse steering bicycle, that is when you steer left the wheel goes right. This demonstrates the brain's ability to change the response to a well established pattern. I immediately had an idea of how to accomplish this, but went on Youtube and saw some ideas that were even better.

First to get a suitable bicycle, I thought a 20" would be good but after looking at one I decided something larger would be better. After checking with friends and Craigslist with no results, I finally found a good candidate at Salvation Army. The first price was \$65 but when I got to the front to



pay, it was \$40, for a fairly nice 24" beach cruiser. Next was finding a donor head tube to support the gear to get reverse direction and I found a used bicycle vendor just a couple of blocks from my home.

Now I get an email from my friend wanting it to be able to change from the reverse steering back to regular easily. So instead of the handle bars being fixed in one place they need to be quickly moveable. I thought of what would have small splined shafts with corresponding collars that would

be cheap and easy to find. One of my options was automotive steering wheel shafts. A visit to Pick-a-Part yielded a couple of shafts from a Honda. When holding the extra head tube next to the original I determined that 2" center to center was best, now to find some gears. The bearing supply catalogue said a Browning NSS 2040 was what I wanted at a price of \$36. A quick check on Ebay showed a good used one for \$6.25 (plus shipping), which I was purchased as well as one new one. Now to mount the second head tube. First I thought of welding it with some flat plates but that would burn the paint and not be easy to make backlash adjustments in the gears.

Once again back to Google Images of reverse steering bicycles

showed a head tube clamped in place, a couple of aluminum spacers machined to match the radius of the two tubes that were made on the mill, and a couple of U bolts bent up and with lots of trial and error it worked. Now just to do the cosmetic touches to make it worthy to show to the public, get it boxed up and shipped to



Georgia for a demonstration in October.

We are getting back in the show mode with some really great activities lined up by Roger. Hope to see you soon at an event.

Upcoming Events

By Roger Hahn

Fort MacArthur Engine/Tractor Show and Picnic
September 10th, Saturday
Starts at 8:00 am

Two years ago Rob Skinner organized our first show at Fort MacArthur in San Pedro. It was a great event and everyone has been asking when we are going to return. Well, WAPA is returning to this former Army post which protected the California coast line with two large 14" guns. The museum would like us to come out and display our engines and tractors. As special guests of the museum we will have a special tour to see the entire workings of this old Army post. Most of the museum is housed underground in a huge "bunker" complete with barracks, kitchen facilities, and a power generation facility. The museum personnel will fire up the large engine that was used to power the Fort with its enormous search lights. The museum will provide a lunch of meat loaf and mashed potatoes prepared on old stoves, and salad and drinks.

Fort MacArthur is high above the Pacific Ocean. With the weather sweltering hot we will be able to enjoy the cool breezes off of the ocean. Our area is under large trees with ample parking for all trucks and trailers. Don't miss this show; it is a great opportunity to share our love of old iron and to visit a great old Army fort.

Take the 110 freeway to the end in San Pedro, and then Gaffey almost to the end. Just after 36th street there will be signs instructing you to turn right into the museum. Then just follow the signs.

South Pasadena Car Show
September 18th, Sunday

This show is hosted by our own Ken Evans. Please see his announcement regarding this show in this issue of the Hit 'N' Miss.

City of Duarte Anniversary Celebration and Salute to Route 66
September 24th, Saturday
Setup: 7:30 am, Show Time: 10:00 am till 2:00 pm

This year this well attended community event is a car show without the parade. The City of Duarte is always very excited to have WAPA attend. Our location is the same as in years past; Royal Oaks Park, at the corner of Royal Oaks Drive and Las Lomas Road, in the City of Duarte. Our location at this event is located in an area where all visitors pass by so we have lots of spectator traffic for the entire show. This is a paid event for WAPA, so let's have a good attendance from our club so the city will invite us back next year.

Directions: Take the 210 Freeway and exit at Irwindale Ave. and go north; then proceed west on Foothill Blvd. After crossing the wash, turn right (north) at the first traffic signal (Las Lomas). Cross over Royal Oaks Dr. and the RR crossing. This is a public park and we are located immediately on the right side.

One note, I attended this show last year and we had trouble getting a good source of water. Thus, everyone should bring some water to keep those mighty hit 'n' miss engines running cool.

Marina del Rey Show Report

By Ken Evans

WAPA was invited to Marina del Rey's Burton Chace Park by the Classic Yacht Association to celebrate the 40th Anniversary of their Old Fashioned Day in the Park. The skies were clear and there was no fog that had been predicted. We set up in our usual spot around the Helmsman Statue.

Lance and Stephanie Wilson exhibited an IHC engine and were assisted by Tim Neely. Next we had Paul Montgomery also with an IHC. Continuing along the line was Jim and Nancy Davis with a Fuller and Johnson water pump system and a demonstration pitcher pump for the public to use. Merle Morse had his scratch built engine/air compressor providing air for a Stuart-Turner dual piston double acting steam engine. Ron Haskell showed off his 1/2 size Frisco Standard marine engine called a Frisco Jr. And Danny Ponce provided an Ideal air cooled lawn mower engine and a 1921 Stover Model K. His wind vane whirled away all day in the sea breeze. Now onto Bob Smith, assisted by Leroy Overstreet, tending a Hercules engine belted to a pump jack providing lift for a pump that was assisted by life member Sadie. Finishing out the display was Ken and Larry Evans with assistance from Joan Westgate with a United air cooled engine belted to a Duro water pump.

It was a great day and show and thank you all.

**Western Antique Power Associates
Minutes of the Board of Directors
August 6, 2016**

Board Members Present	Ron Haskell, Stevie Mote, Kelley Garcia, Dave Stockton, Joe Siddons, Bob Smith
Board Members Absent	Jim Davis, Don Young, Roger Hahn, Lance Wilson
Members Present	Tom Fee, Phil Sigmon, Gus Lukrofka, Danny & JoAnn Ponce, Carl & Fran Pfetzing, Carey Stockton, Tom Millett, Paul Liverman Jr., Gil Stuart, Gary Provansal, Dale Linn, Tim Neely, John Rimpau, Larry Madole, Eric Waltzer, Steven Mandell, Craig Maxwell
Visitors	None
Call to Order	President Ron Haskell called the meeting to order at 9:00 AM.
Flag Salute	Led by Ron Haskell
President	Ron Haskell welcomed all and encouraged group participation.
Vice President	Stevie Mote had nothing to report involving Club business. He inquired as to any members having the know-how and equipment necessary to pour babbitt bearings.
Secretary	Dave Stockton. Ron Haskell made a motion to approve the minutes of the Board of Directors meeting on May 28, 2016 (June meeting), seconded by Bob Smith, all in favor and entered into record without correction.
Treasurer	Kelley Garcia has retained the services of the Alcalá Law Firm to pursue the Club's FINRA complaint against Wells Fargo Bank. July figures for the investment savings account report a balance at \$3,323.71, savings acct. at \$37,961.29, museum fund at \$100,533.06, total investments at \$138,494.35, with an adjusted profit/loss of \$14,686.99 for the year.
Membership	Jim Davis absent; no report. Membership at 182, total paid at 143. Nominated for membership is Fran Pfetzing and Julius Schnell, seconded by Bob Smith with all in favor.
Purchasing	Director Lance Wilson absent; no report
Show Director	Roger Hahn absent. The upcoming shows have been sanctioned on a motion by Ron Haskell and seconded by Joe Siddons: Fort MacArthur on Sat. Sept. 10; South Pasadena Car Show on Sun. Sept. 18; and the City of Duarte Car Show on Sat. Sept. 24. Coming up Oct. 1-9 is the Southern California Fair in Perris, with a possible WAPA show on Sat. Oct. 1, yet to be sanctioned.
Library	Club Librarian Joe Siddons had nothing to report.
Safety	Director Don Young absent; no report
Museum	Director Bob Smith reports that WAPA has had several meetings recently with Cal Poly directors outlining several possible scenarios for a Club museum and asked for member's input.
Editor	Carol Haskell welcomes new articles, stories, ads, etc. and needs articles of interest for inclusion in the newsletter.
Glendora Castle	Tom Millett had nothing to report
Cal Poly Restoration Project	Bob Smith and crew are currently at work on an International TD-6 crawler with injector pump issues.
Riverside Citrus Grove Project	Ron Haskell and crew are finishing up with grouting and addressing other small details.
Unfinished Business	None
New Business	A donation was made to the Club by member Gus Lukrofka of a Farm Master utility tractor.
Announcements	The San Fernando Valley Chapter of the Ford Model A Club will be having a car show and parts exchange on Sun., Aug. 21.
Adjournment	10:23 AM
Next Meeting	Saturday, Sept. 3, 2016, 9:00 AM Dave Stockton, Secretary

WAPA BOARD OF DIRECTORS MEETING
SATURDAY, SEPTEMBER 3
9:00 A.M.
AGRISCAPE BUILDING AT CAL POLY
(NEXT TO THE FARM STORE)



Jerry Burak Bud Melvin
John Konwiser Robert Richardson IV
Phil Sigmon

SEPTEMBER BIRTHDAYS

South Pasadena Car Show, A WAPA Event By Ken Evans

WAPA has been asked to join South Pasadena and participate in their 12th Annual Cruz'n For Roses Car Show on Sunday, September 18, 2016. It is a fund raising event for their Rose Parade Float. We will be on Mission Street at Fremont Ave on the south west corner.

When: September 18, 2016, Sunday morning set-up beginning at 6:30 am with the show ending at 3 pm. Unload and park by 7:30 am and then setup your exhibit for a 10 am show time.

Parking will be on the streets nearby. Bring your own food, water and shade. There is a Carrow's Restaurant across the street from our exhibit.

How to get there: From the 210 Freeway, east or west in Pasadena, exit on Fair Oaks South and go through Pasadena and over the hill and then over the Pasadena Freeway, past Mission and turn right on El Centro St. Go west to Fremont and turn right, traveling north to Mission. We will be on your left on the south side of Mission at Fremont. Like last year, the car show is going to go east on Mission and continue to Fair Oaks but no closure of Fremont Ave. Do not block the street during setup.

If you have any questions call Ken Evans at 626-683-8372 or email at kencevans@sbcglobal.net.



This post drill press was donated by the Bernie Sanchez Collection, restored by Bob Smith, and is ready for the WAPA museum.

2016 WAPA Officers
President Ron Haskell
Vice President Stevie Mote
Treasurer Kelley Garcia
Secretary Dave Stockton
Membership Jim Davis
Safety Don Young
Show Director Roger Hahn
Librarian Joe Siddons
Purchasing Lance Wilson
Museum Director Bob Smith
Editor Carol Haskell



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Changing Direction on a Pulley By Bob Smith

Did you ever come across a situation where you wanted to change the direction of a piece of equipment you are driving from your engine? Some pumps or pump jacks run in a certain direction for lubrication purposes. A saw should run in only one direction or you can't cut too much wood. Grinders, Dill Press, Cream Separator.

I know of 3 methods of reversing the direction of the driven pulley. A forth is to turn the engine around.

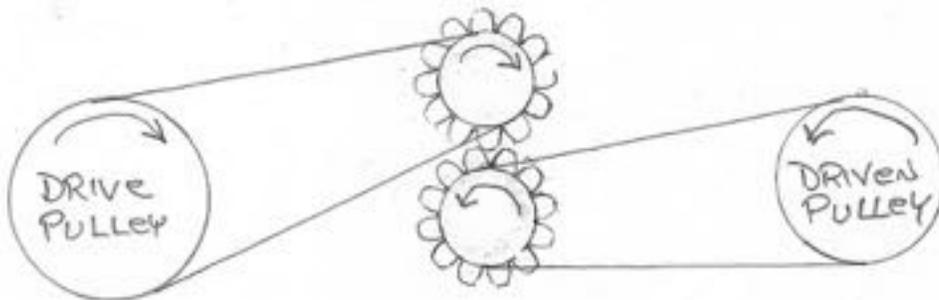
1. Cross the belt from the drive pulley to the driven pulley.



2. Use 2 pulleys and gears between the drive pulley and the driven pulley.



3. Use 2 idlers past the driven pulley.



**Gus Lukrofka's donation to the WAPA museum.
Thank you Gus!**

Powermaster Tractor



Gannon Landscaper



Brush hog



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US Recommended Bolt Torque

Size	Recommended Torque											
	Grade 2		Grade 5		Grade 8		18-8 S/S		Bronze		Brass	
	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
#4*	-	-	-	-	-	-	5.2	-	4.8	-	4.3	-
#6*	-	-	-	-	-	-	9.6	-	8.9	-	7.9	-
#8*	-	-	-	-	-	-	19.8	-	18.4	-	16.2	-
#10*	-	-	-	-	-	-	22.8	31.7	21.2	29.3	18.6	25.9
1/4	4	4.7	6.3	7.3	9	10	6.3	7.8	5.7	7.3	5.1	6.4
5/16	8	9	13	14	18	20	11	11.8	10.3	10.9	8.9	9.7
3/8	15	17	23	26	33	37	20	22	18	20	16	18
7/16	24	27	37	41	52	58	31	33	29	31	26	27
1/2	37	41	57	64	80	90	43	45	40	42	35	37
9/16	53	59	82	91	115	129	57	63	53	58	47	51
5/8	73	83	112	128	159	180	93	104	86	96	76	85
3/4	125	138	200	223	282	315	128	124	104	102	118	115
7/8	129	144	322	355	454	501	194	193	178	178	159	158
1†	188	210	483	541	682	764	287	289	265	240	235	212

* Sizes from 4 to 10 are in lb-in.
 Sizes from 1/4 up are in lb-ft.
 † Fine thread figures are for 1-14.
 Grade 2, 5, and 8 values are for plated bolts.