Helmets 1932-1941

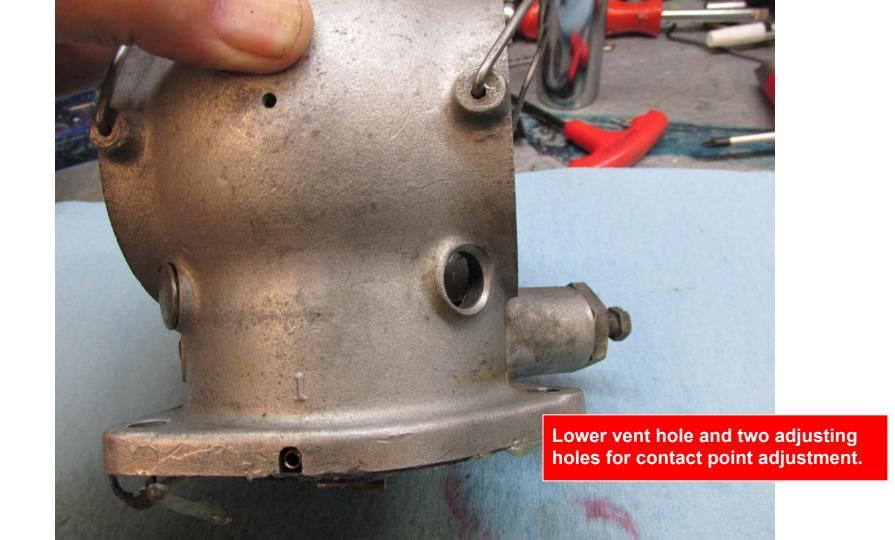


Basically there are two housings and designs for the model years 32-thru 1941. The 32 is somewhat different and will be covered as a seperate unit along with the oblong coil for the 1936 model year. However for the most part we will cover the two units shown.... I call them the 3 bolt with 3 bolt coil and a 4 bolt with 2 bolt coil.



Tear down of early 3 bolt housing with 3 bolt coil.

- Large cam/weights
- Ribbed rear housing
- Shielded drive shaft
- Strap points (one piece)
- 3 bolt ignition coil
- Large tip rotor
- Side mount condensor
- Single small clip





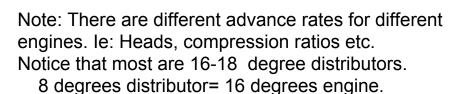
Early rear housing shown (left upper) and later smooth unit shown. Upper unit shows ribs to be used with oil deflector and early drive shaft. Both of these are very good and very seldom need bushing replacement. Bushings are available if needed.







MODEL	SPEED		ADVANCE	
	MPH. Scale "B"	RPM. Scale "S"	MAX.	MIN.
18	34	850	8½°	7½°
40-A	60	1500	12½°	11½°
40-B	60	1500	81/2°	71/2°
68	38	950	8½°	- 7½°
78	38	950	81/2°	71/2°
901	38	950	8½°	7½°
HB	38	950	812°	7120
86-H	38	950	81/2°	71 ₂ °



The 11A isnt listed however the later units were 11As. This distributor uses individual contact points and 22 degrees of advance. (Same as the Crab)







Rotor and shaft



Rotor shaft is cleaned, polished and center (under rotor) is insulated with shrink tubing. Spark will always take the path of least resi8stance and will try at times to go to center shaft. For the most part these rotors work very well and last a long time. I usually clean and inspect, looking for any sign of burning or arcing. Clean, polish brass ends and use them...... Some aftermarket replacements are very poor quality!!

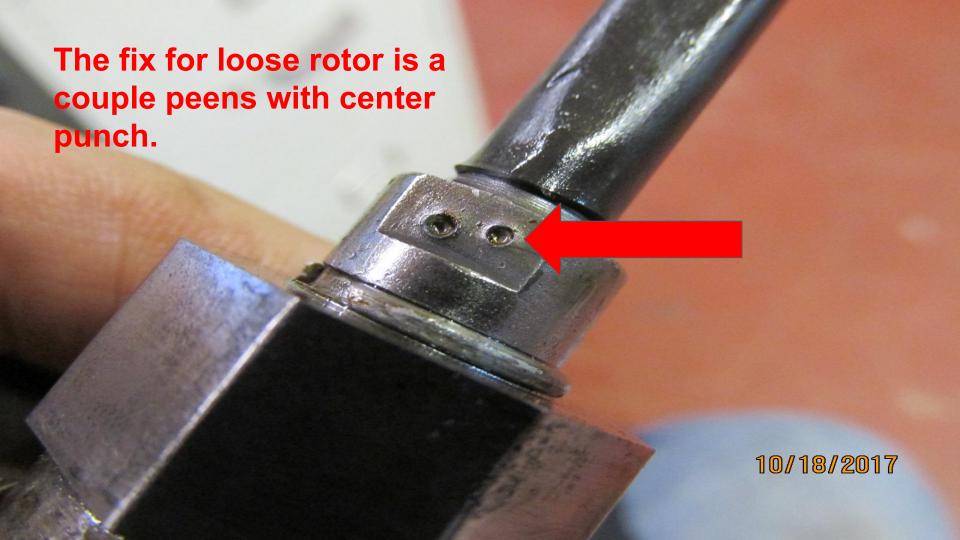


We have found the Ultra Lube 4 x to be a very good light lube for servicing these units.

Seems to work well under all temps and stays on the part.

I hate rust and get to see some of these again after 4-5 years of service!

This has been the very best we have found!!







Condensor:

Tested condensor on condensor load tester. Condensor passes MFD's at .36 but fails leakage testing. Pretty typical for a orginial unit!!

Cut old housing in two, remove old condensor. Replace with new Vertex Magneto condensor (best made today) solder to case.

Use orginal brass end with slot for screwdriver to allow use of orginal bolt from Ford. Install in ignition coil.

Never know it! I have never seen a defective Vertex condensor!!!











Properly set up is usually one mark advanced to provide 4 Degrees BTDC.

2 degrees of distributor = 4 degrees of engine timing.

Note: A new distributor with proper point gap shouldnt need any additional setting etc.

Adjustment is provided for 6 degrees either direction. I see them with the case filed to allow more range! Shouldnt be done as rotor index is affected and can cause cross fire!!!





Vacuum Brake
With piston, leather, spring and adjuster installed.

Ford spec= Drive until spark knock is heard under load and turn adjuster inward until spark knock quits.

NOT a vacuum advance . It is a vacuum retard under load will retard timing!!!





A perfect world????

Two customer units with new contacts, Skip Haney rebuilt coils and Vertex condensors, New side caps and terminal blocks. Machine adjusted and ran for some time on tester!!



DON'T ADJUST OUR DISTRIBUTOR!!!

WE TEST RUN EACH DISTRIBUTOR FOR A FEW MINUTES AND SET ALL ADJUSTMENTS TO BE JUST PERFECT.!!! CASE TIMING IS SET AT 2 DEGREES BEFORE TOP DEAD CENTER, ADVANCE RATE IS 22 DEGREES AT 2500 RPM. POINTS ARE ADJUSTED USING A DWELL METER RUNNING ON A TEST MACHINE.

VACUUM BRAKE IS SET AT THREE TURNS IN WITH NEW LEATHER AND PLENTY OF LUBE!!
THERE IS NOTHING YOU CAN DO TO MAKE THIS DISTRIBUTOR ANY BETTER!!!!!
INSTALL THE UNIT, START THE ENGINE AND ENJOY THE RIDE!!!!!!!!

NOTE,

WE INCLUDE THIS WITH OUR CRAB DISTRIBUTOR.
(the phone calls i get)

- THOSE GUYS SAID IT JUST DIDNT LOOK RIGHT!
- MY FRIEND ADJUSTED THE POINTS!!
- I ADVANCED THE TIMING !!!