Mis wan Ad-Script? 2000

OVTC 24 JUNE 96

CRANKSHAFT/CAMSHAFT/IGNITION PHASING

USUAL -BY THE BOOK---FLYHEEL MARK FOR TDC
----LINE UP THE DOTS
----- DROP IN THE DIST. GEAR
OFF TO THE RACES------

BUT-----THIS DOES NOT ALWAYS WORK?

1/2 TOOTH OFFSET BEFORE REBUILD?

NEW / UNMARKED / REGROUND GEARS CAMSHAFTS
ENGINE DOES NOT PREFORM AS EXPECTED

NOTE MUCH EASIER TO PHASE AN ENGINE IN SHORT BLOCK FORM!!!!!!!

TDC RE FLYWHEEL / BLOCK
DIRECT DAIL TO PISTON
DIRECT CAM LOBE MEASUREMENT

CAMSHAFT IMFO BK5 PG11

SYMETRICAL VALVE ESCENTIAL FOR VOLUMEMETRIC EFFICINITY NOTE ABOUT 6/7 OF 4 STROKE CLCLE A VALVE IS ACTIVE

" 1/7 (~100 *CRANK) -----NOT MOVING

IF 1 TOOTH (CRANK) ERROR =34*
IF 1 TOOTH (CAM) ERROR=17.1*
IF 1/2 TOOTH(CAM) ERROR=8 6*

WHERE IS TDC?

- 1/ MOST ACCURATE FLYWHEEL / BLOCK MARK
- 2/ DIRECT PISTON /DIAL GUAGE METHOD (SHORT BLOCK)
 -REFER PG 13 STROKE VS SINE CRANK
 -BIG /LITTLE BEARING CLEARANCE 001 ~005?
- 3/ O SHIT METHOD (LONG BLOCK) (SPECIAL TOOL) NOT AS ACCURATE AS 1 OR 2 BUT << 1/2 TOOTH (2OR 3* CRANK)</p>

ONCE TDC IS DETERMINED ATTACH DEGREE WHEEL & POINTER AND VERIFY IT'S ACCCURITCY

WHERE IS THE CAM?

OPPISATE CLYINDER OVER LAP BREATHING REFER PG 11

HOW? 1/ MEASURE CAM LOBES DIRECT STD DIAL GUAGES 2/CUSTOM SET GUAGES AND TOOLING

WHAT ARE WE LOOKING FOR ??

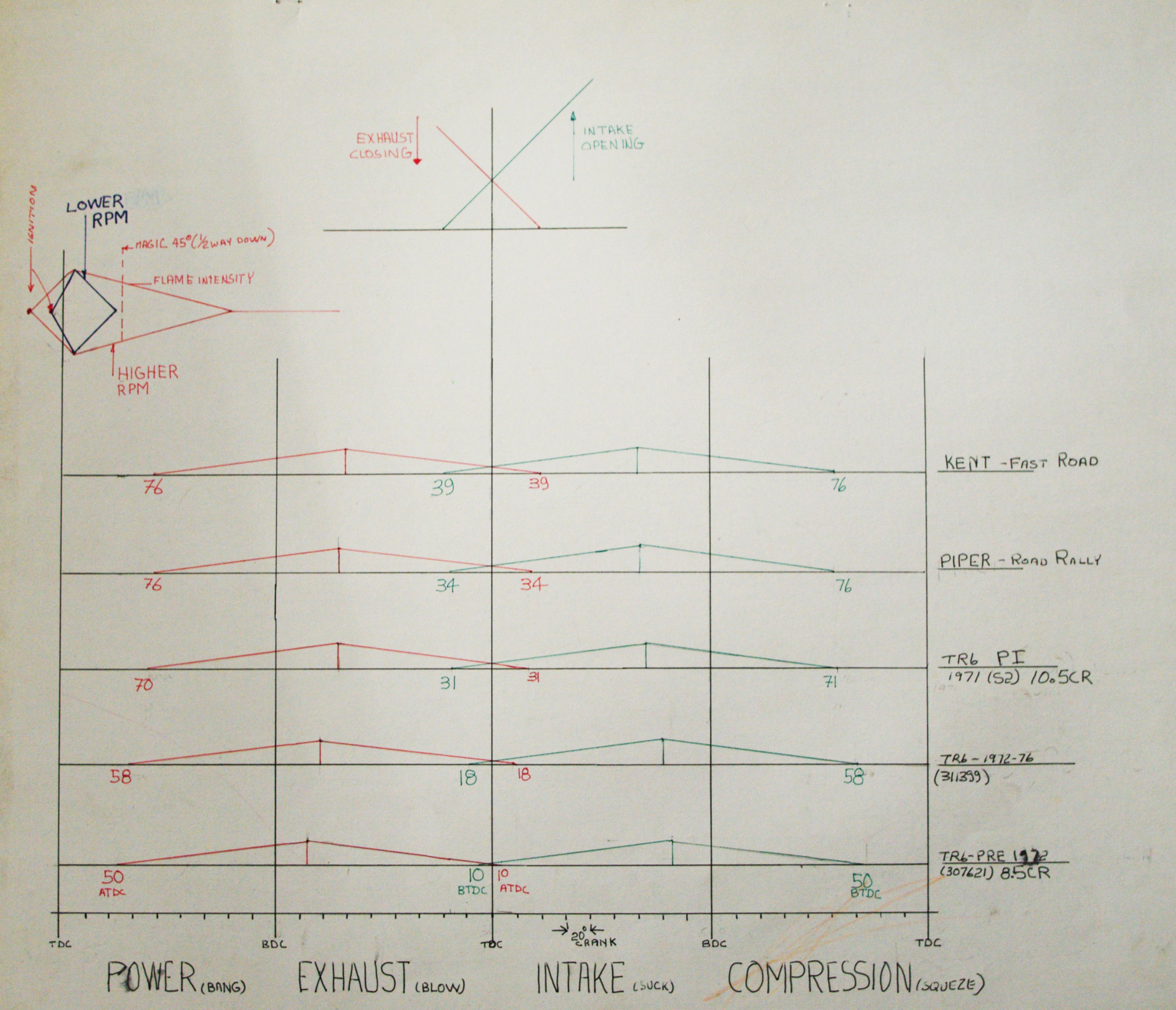
REF PG 15 ALSO ISKY PG135

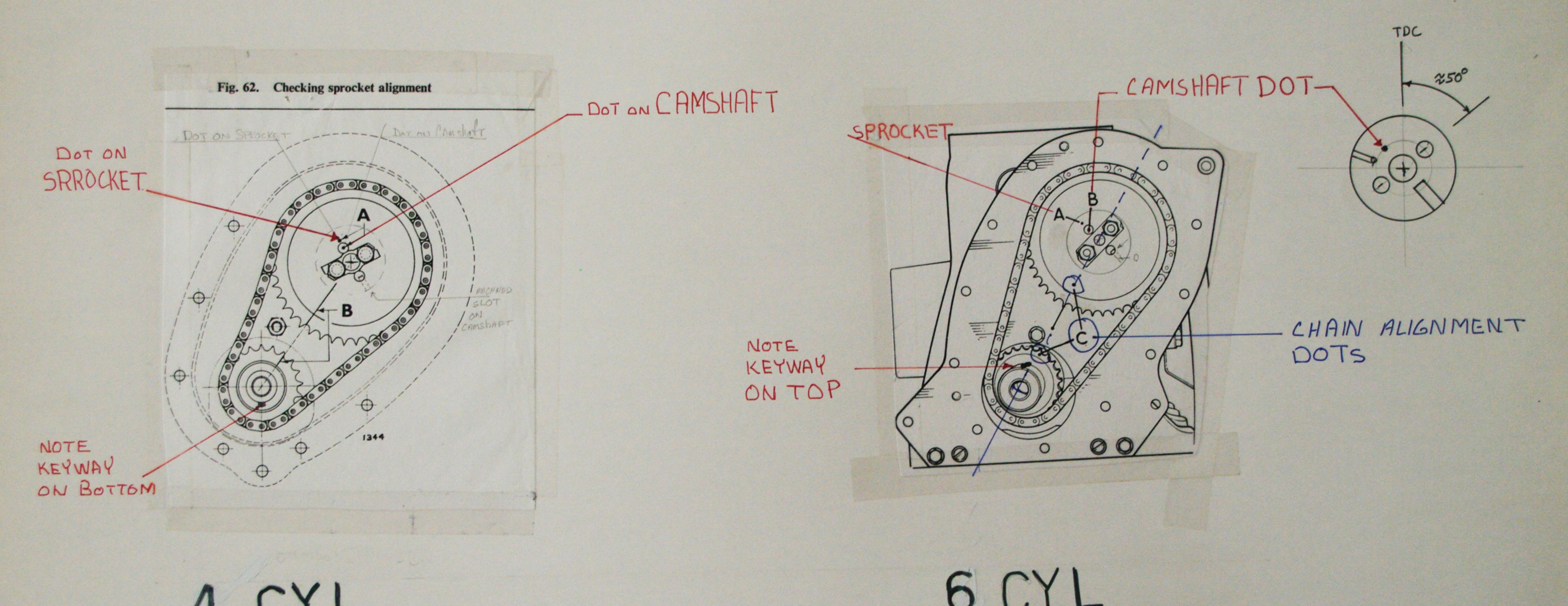
OBSERVING THE DEGREE WHEEL AND THE TWO DIAL GUAGES CHECK FOR SYMETRY

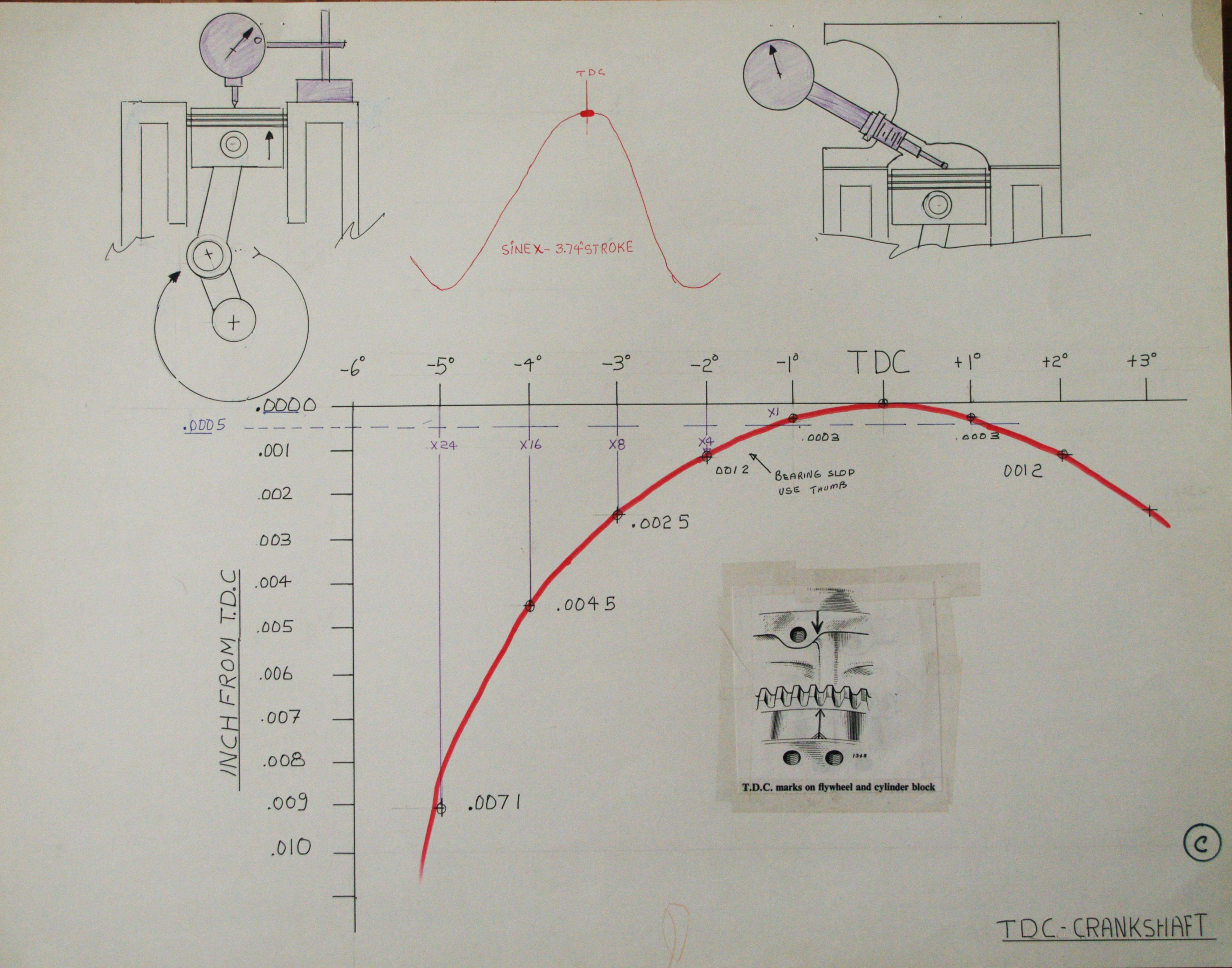
RESET TOTDC #1 CLY AND PUT IN DIST /CAM GEAR EASY IF NO OIL PUMP INSTALLED SPECIAL TOOL IF OIL PUMP IS INSTALLED

NOTE GOOD IDEA TO PRIME OIL GALLERYS BEFORE DIST/CAM GEAR IS INSTALLED

INSTALLDIST AND VERIFY STATIC #1 POINT







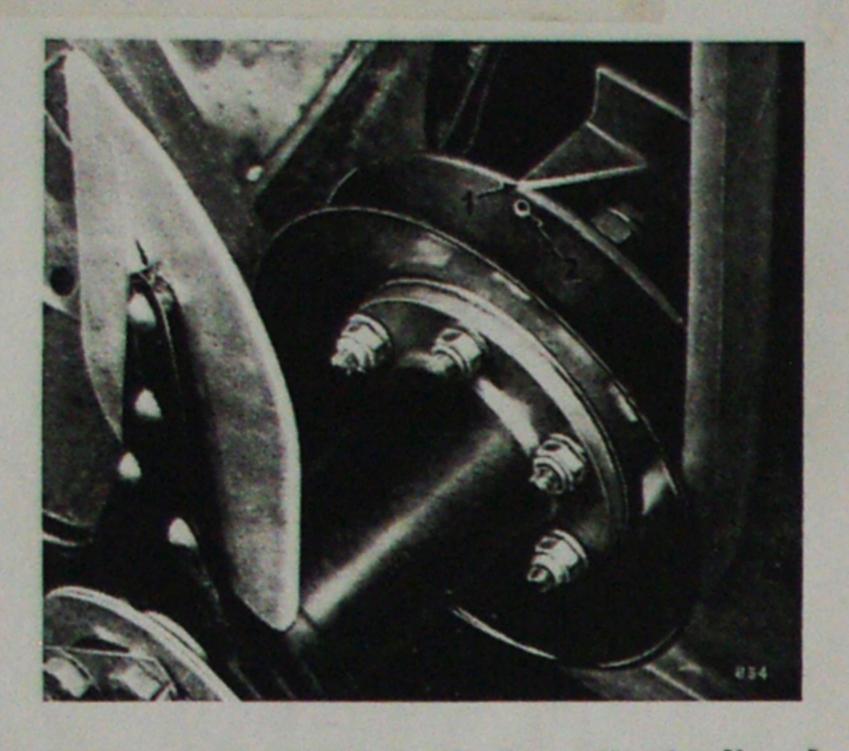


Fig. 67. A small hole in the fan pulley is aligned with a pointer when No. 1 piston is at T.D.C.

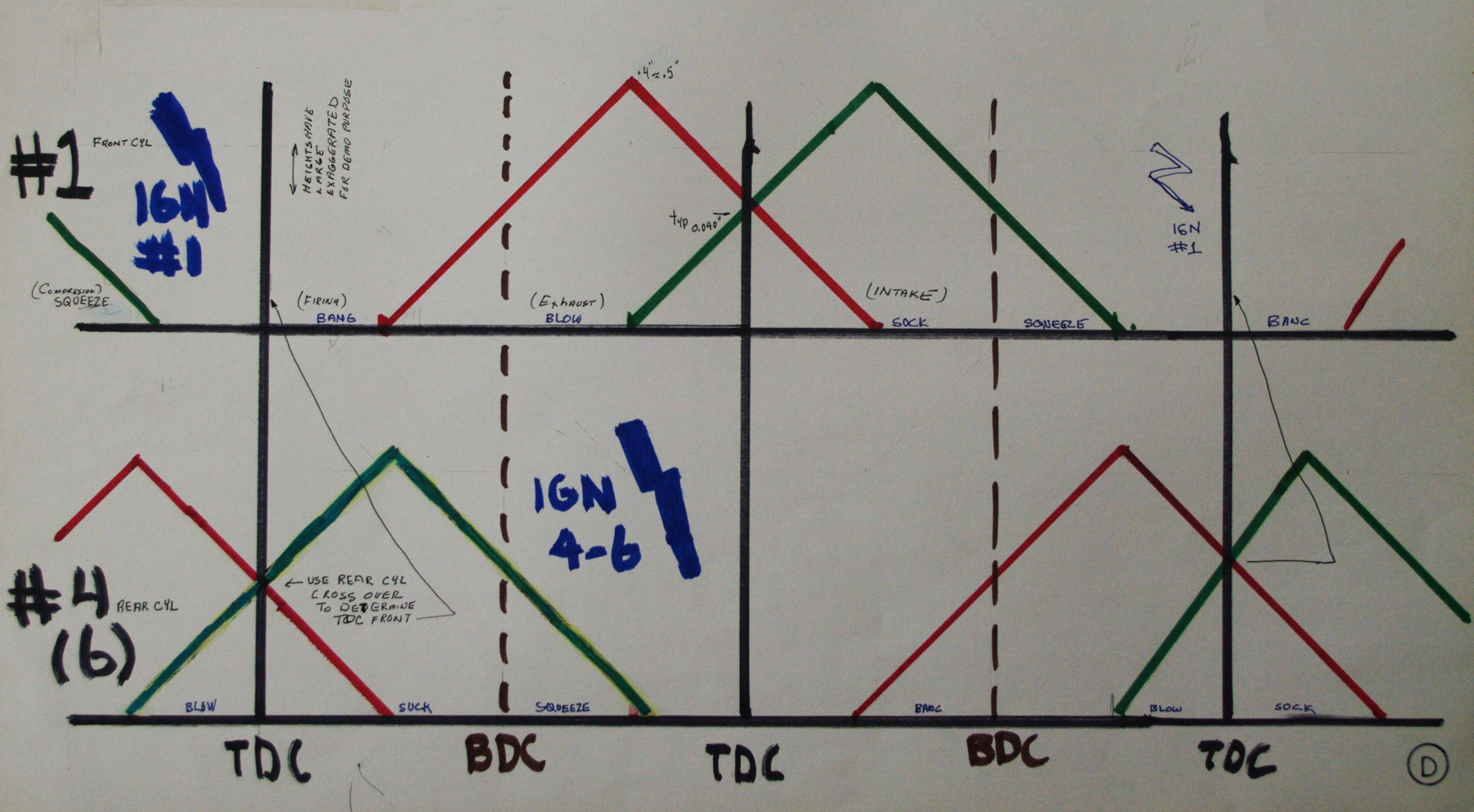
Confusing

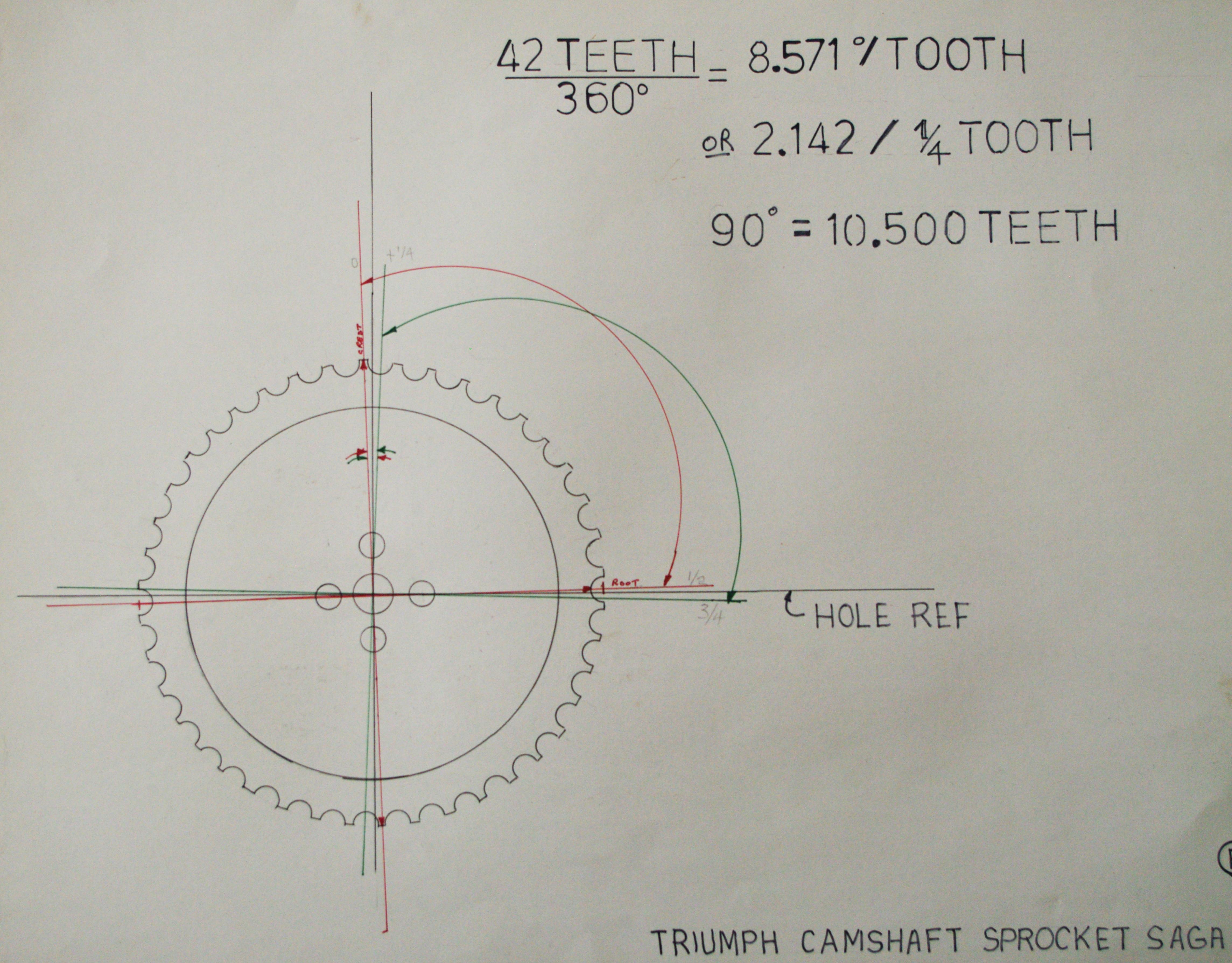
18 CXL # 19 # 4

18 CXL # 19 # 4

ARE BOTH Jining

Which is bining





B. Mills JAN 2002

