

4 May 74 91977

Add $\frac{1}{2}$ qt XLR (6TX) 20-50 → almost full ~ 200 km

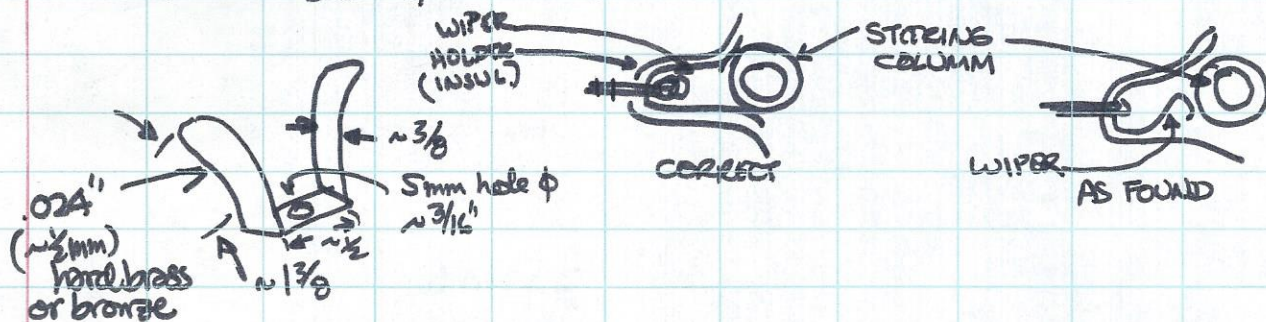
16 May 74 91990

13 km test ride (gentle) - seems O.K.

- Chk diff lube level: O.K. $\frac{1}{4}$ " - $\frac{1}{2}$ " below filler hole
- Chk play - adjustment unchanged: O.K. So far, so good...
- Add ~ $3\frac{1}{2}$ cc of molybdenum disulfide powder - confer w/DEM - O.K.

17 May 74 91990

- minor elect. adj. set turn signals to cancel - will need to epoxy bakelite frame where assembly screws onto metal switch (lever sticking out from steering column).
- Correct horn pickup on steering column - the orig. wiper has been bent & almost worn thru - meas. to make new one:



25 May 74 92401

After 2 or 3 trips to el Verano dnu.

- Generator failure: Symptoms: began not charging (Red light on; Ammeter ≤ 0) at lower revs. Chg O.K. @ ~ 3500 & up. Fun died altogether. Barging on VR never helped.

VM on Red & Green Wires from Gen → 0 volts.

Brushes:



Wearing dimension = ~ $9/16$ " 250TR: $11/16$ " (from back)

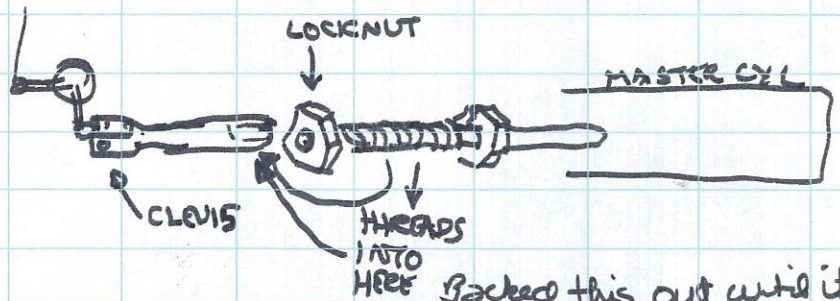
Swapping brushes w/ spare generator cured it. They are $\frac{1}{8}$ " longer
Get new brush set for spares

93672 Δ OIL/FILTER - 93,672 6-74
 Δ DIFF OIL 94,086 7-74 3 1/2 pts 140 wt
 Grease 3cc MBS2
 94086 Pack wheel brngs - new brngs where needed: both outsides (#1 AA)
 F BRAKE CYL OVERHAUL

26 June 74 93672

Δ OIL Δ FRANTZ FILTER 9 qt GTX 20-50 - may be 1 row
 de later.

Attempt to take up freeplay in Brake linkage:



Backed this out until it fell
 apart then threaded it in
 enough to → Locknut.
 ~ 2" free pedal travel - may

25 July 74 93086 = 94086 (digit didn't move) be a little better.

• DRAIN DIFF ~ 2000 KM TO Δ 'Break in' oil.

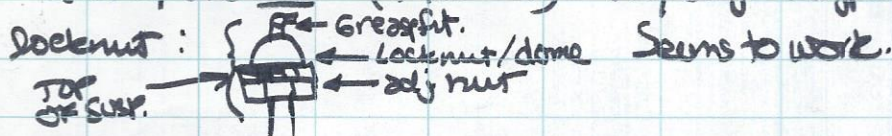
3 1/2 pts 140 wt + 3cc MBS2 oil OK - two small brass(?)
 shavings. No leaks

21 July 74 - Monterey HCK/Reddo Beach Prep.

- Δ Radiator cap to AC RC-1

13 AUG 74 94583 94086 ~~BROKEN OIL FILTER~~
 After Monterey HCK

- LUBE - all but lower LHS - dow/wheel brng pack
- REMOVE WHL BRNGS FOR INSP/GREASE Lube lower LHS grease fittings
 OUTSIDE (small) RHS whl brng ~~rod~~ retainer broken!
- R. F. SUSP. SIDES LOOSE - either Kingpin or outer A-arm links
 & they are NEW (7455 KM) - try adj. Kingpin by upper nut;



Begin F wheel cyl brake overhaul

Δ PLUGS 94913 9-74
VALVE/HEAD OVERHAUL

945B3
AUG 74 ~~945B3~~

- F. Wheel Brake Cyl overhaul: $1\frac{1}{8}$ " cylinders RM Kit WK 36 (62-65 Plymouth, etc.)
1 kit per side
- Replace outer wheel brngs both sides. ALL WHL BRNGS SAME AS TR
- RF suspension is still LOOSE @ Kingpin (seems to be less than before)
- R wheel cyls overhauled $1\frac{1}{8}$ " cylinders RM kits WK.36 (4)
take ~ .001 $\frac{1}{2}$ off all pistons - 3 or 4 were stuck.
- TOP UP STEERING BOX w/140wt adjust sector shaft to ^{snobinder} no play @ center

350774 94913

- Δ spark plugs - to B7EC's (Removed B-7E's) MY FIRST PLUG Δ (?)
8600+ KM .027 GAP 22 FT-LB $\frac{1}{2}$ in.
- Old plugs had \geq SOLID cu washers each, EXCEPT #7 (only one)
(Probably removed on plug ck 29 Jan 72)
- New plugs installed with 1 std (crushable) washer each. - Run ok.
- Torque plugs to 22 FT-LB after test run (hot)

23 Oct 74 AFTER Seas Point Historic Automobile Day.

Run well for Hooe

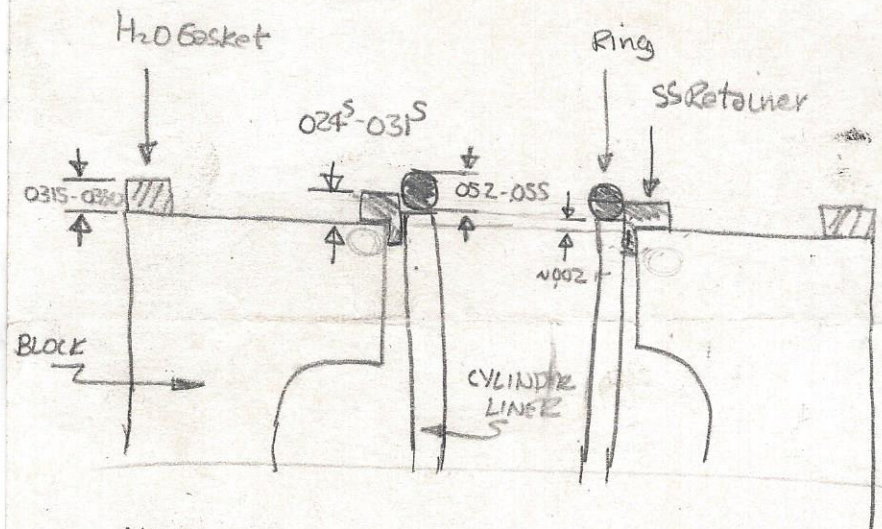
- Chemical check reveals both headgaskets leaking - will remove heads after TR winter maintenance.

REMOVE CYLINDER HEADS

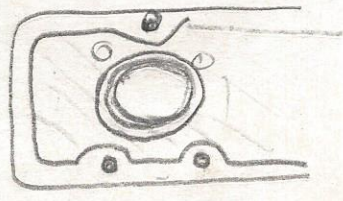
- Time & details on worksheet (next to last section in Logbook)
- Guides valves and springs worn
- #2 exh valve burned. #2 plug had shown H₂O: this is the leak
- All locating rings for comp. head gaskets rotted but #11 (opposite #2)
- VALVE DIAMETERS (Heads) Intake: 34mm Exhaust: 29mm
- SD 250 GT (from heads of 9636T): 32 30 !

#11 I keeper (one only) doesn't match the rest - repl w/one from 9636T
#10 I spring (one) WELDED to lower keeper - repl (over keeper " " " "

Rings .052 - .055
 SS Retainers .024^s - .031^s
 H₂O Gasket .0315 - .0330

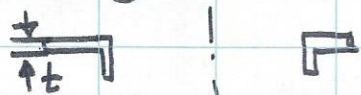


MACHINE ALL S.S. RETAINER RINGS
 TO ~ .0245



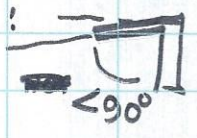
Head/Valve Overhaul 1-75 cont

Replace rotted steel compression gasket retainer rings w/ ss ones from David Clarke -

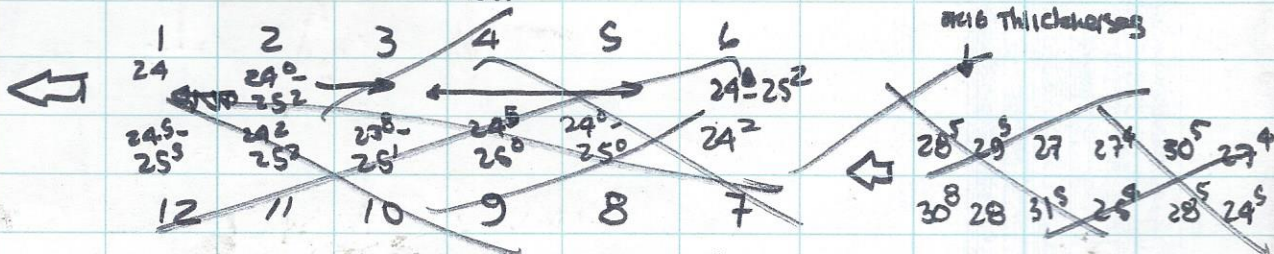


orig. t on ss rings varied from .024^s-.031^s! peripheral H₂O gaskets (new) ∴ .031^s-.033 ∴ one section may not crush & → H₂O leak (compression gaskets 052 - 055 unused)

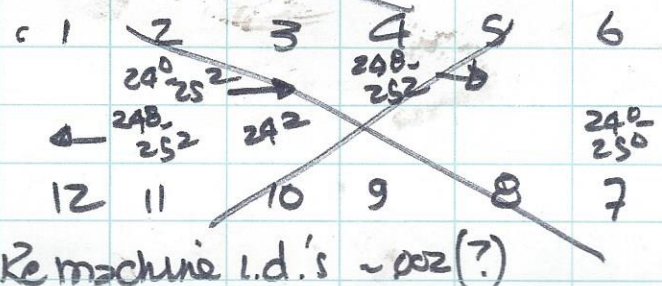
George Newell machined all to → .025 - .025^s max / .023^s-.024^s min much better than original! (They were of non-uniform thickness & slightly "hat brummed", i.e.:



Cut so:



ALL I.D.'S TOO SMALL! SOME WON'T FIT OVER LINERS - Re machine i.d.'s - .002(?)



Roughly meas O.D. of Liner (where ring fits): 3. _____

TRY ONE RING FOR FIT: NOT MACHINED YET

	1	2	3	4	5	6	7	8	9	10	11	12
Measurements	.269	263	265	263-5	265-6	268-9	265	267-8	268-9	264.5	265	265+
Fit	Too large	OK-loose	OK-loose	Good-to-loose	OK	Too large	OK	Too large	Too large	OK-loose	OK-loose	OK

~ Luer meas
by vernier caliper

Test Ring fit ↓

CYL # 3, — COMMENTS

1	.269	Too large
2	<u>.263</u> (SMALLEST)	Good fit
3	.265	"
4	<u>.263-5</u>	Good to loose
5	.265-6	OK
6	<u>.268-9</u> (LARGEST)	Too large
7	.265	OK
8	<u>.267-8</u>	Too large
9	<u>.268-9</u>	"
10	<u>.264-5</u>	Good
11	<u>.265</u>	Good
12	<u>.265+</u>	OK

Re-machined rings:

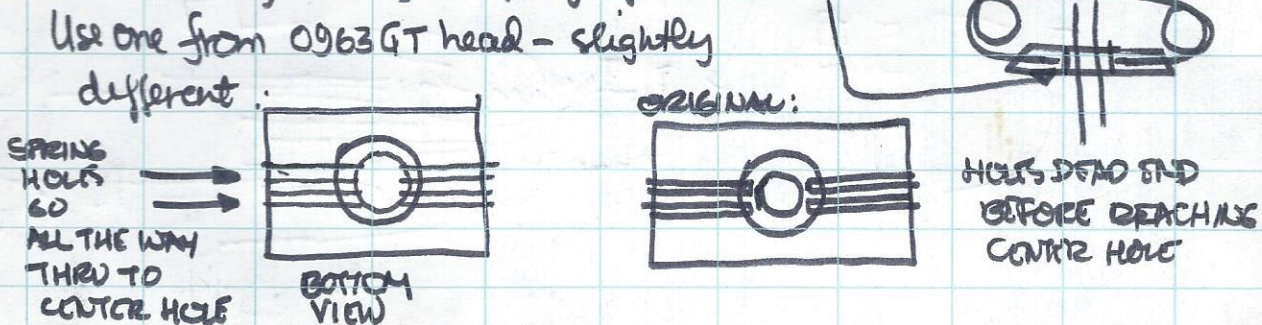
TAG Color	SIZE	#	
—	.670	6	→ Firm fit #7 OK 3,5,10,11,12
	.ND4	2	Firm fit 2 & 4
—	.672	4	→ Press fit #1,6,8,9

Oil/FILTER 94594 (8/75)

NEW ADD SCREWS (94900 B/C)

Rings machined i.d. - George Newell. Chart on opposite page -

- 4 JULY 75 - Found first set of used Test Pesa valvesprings - only slightly worn: VSB
- 12 AUG Glass Bead Clean used Springs
- 13 AUG LAP IN 6 CK W/PRUSSIAN BLUE - seats on head 'B' (LHS) - taught by Crazy Leonard how to do it. - All O.K.
- 14 AUG - Assemble 'B' head using used valvesprings - all ok - except #10 I valvespring base ruined by having had springs spotwelded in:



Otherwise appear the same - use.

16 AUG BEGIN INSTL HEADS

RHS RING COLOR CODE	CYC -	1	2	3	4	5	6
		BLUE	-	RED	-	RED	BLUE

FIT COMP GASKETS. SILICONE GREASE TOP / COPPERKOTE SPRAY BOTTOM (DGM)

OIL HOLE: SQUARE SEC. O-RING (not like 250TR). 8x14x3.5mm.

cut thickness 2mm to 3mm (JWG suggestion) - set in RTV - Copperkote top

TIMING COVER TO HEAD SQUARE O-RING (~67x80x4.5mm) set in w Gaskacinch

Water Hrd Gasket - 4 Bolt PATTERN - PUNCH HOLES FOR 3 BOLTS, TRIM

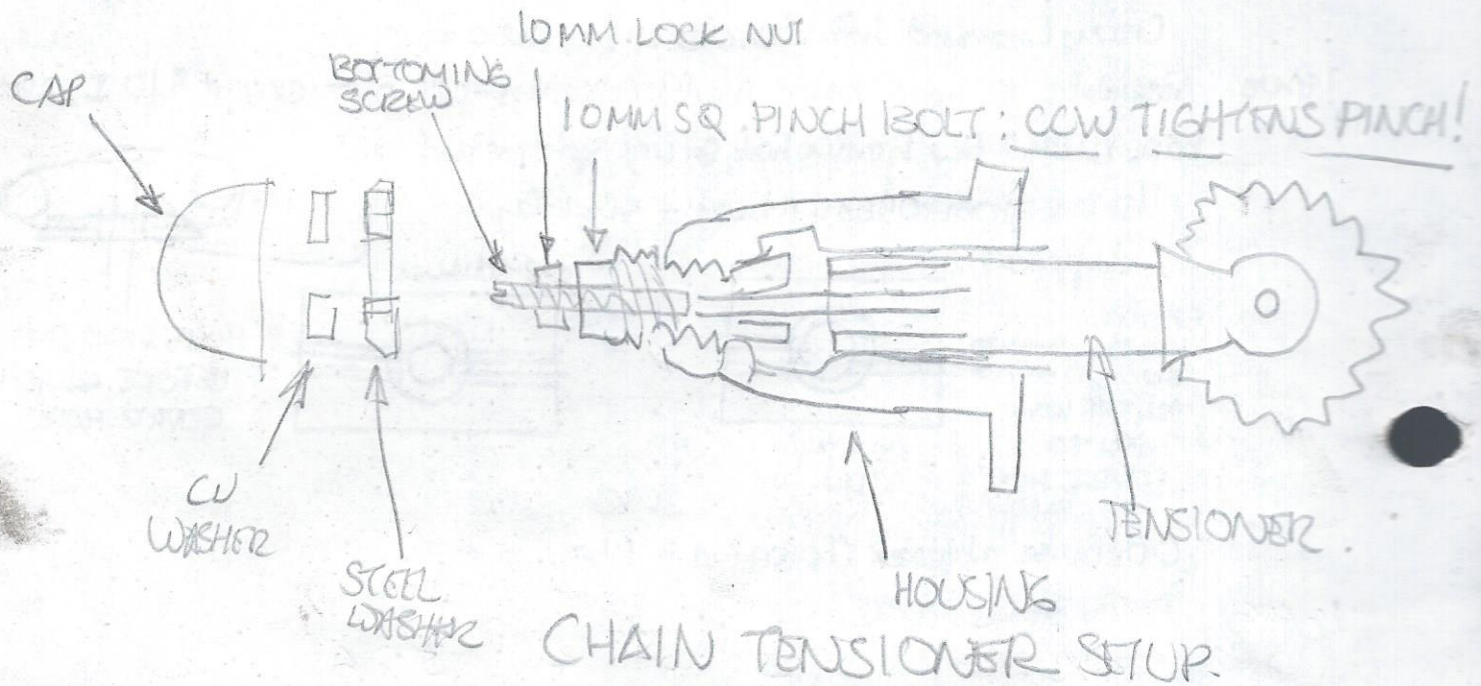
& INSTL w/RTV (both sides) T: 55 FT-LB.

CAM & BENCH **NEW ADD SCREWS** T: 20 FT-LB.

TRAIN OIL FILTER 94594 - 95594

RHS Exh manifold clean old gaskets & reuse. tighten from end flanges to center

CAM CHAIN TENSIONER



17 AUG Begin prep LHS cyl-

Clean - instl retainerrings

CYL- 7 8 9 10 11 12

Colorcode Red Blue Blue Red Red Red

18 AUG LHS ON - USE MODIF GASKET AS RHS - (JGM Recommended)

Oil O Ring cut to ~ 3mm thick

oversize (Alfa) Head nut washers used on inside (short) studs

55 FT-LBS

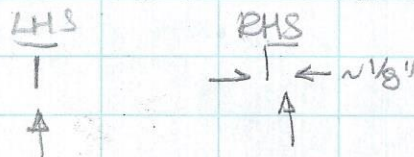
19 AUG INSTL CAM / ~~BE~~ BINGS - NEW ADJ SCREWS T: 20 FT LB

BOLT ON CAM SPROCKETS : CHAINS / SPROCKETS / CAMS INDEXED W / WHITE

PAINT - RETURN TO THESE POSITIONS:

A. Take tens up on LHS chain: bolt on sprocket to LHS cam.

B. " " " " RHS " across gen drive: bolt on sprocket to RHS cam. The arrows & marks now:



ONE LINK SLACK ON RHS CHAIN LINES UP POINTER & CAM MARK! - Not like it came apart, but looks right.

NO: GEN SPROCKET NOT ENGAGED:



RHS cam too far forward

Loosen bings & tap cam back. Now ALL MARKS & PAINT LINE UP

INSTL TENSIONER.

(STRIPPED BING STUD REPL #2 CYL EXH "FRONT" STUD)

SET VALVE CLEARANCES -

Some Spring/rocker arm interference: NOTED: E: 5, 8, 9

Keep watch

I: 3, 9

T CAM SPROCKETS : 20 FT-LB

BATTERY ON TRICKLE CHG: ~ 6 PM }
OFF: 12 PM } 6 HRS

6:30 AM }
11:30 AM } 5 HRS

11 HRS

252
24 | 6168
 48
 136
 120
 48

10-12:30 2:5
1:30-3:30 6

CHG ON: 1700 21 AUG

20 AUG 75

- CUT/TRIM INSTL CAM COVER GASKETS: GASKACINCH TO HEAD: GREASE TOPS BEFORE INSTL.
- INSTL. RADIATOR HOSES/THERMOSTAT, ETC.
- CONN OIL P. GA. LINE TO BLOCK / H₂O T. GA. WIRE
- REPLACE PIECE OF FLEX FUEL LINE LOCATED @ R/F SIDE OF OIL PAN OLD ONE LOOKED BRITTLE
- STRIP/BEAD BLAST CAM COVERS (DONE LAST 2 DAYS) - PRIME (IN & OUT) W (ZNO₂)
- FIT ~~SP~~ CAM SPROCKET COVERS - TRIM O-RINGS TO FIT (NEW KINGS INST. W HEADS)
- INSTL CARBURETORS & MECH FUEL PUMP
 - FUEL MANIFOLD IS A TIGHT FIT TO FUEL PUMP ???
 - ELCT F. PUMP ON TO CK FOR LEAKS - CORRECTED LEAKS: OK.
- FIT DIST DRIVE - NOT BOLTED DOWN UNTIL DIST. ARE CKED FOR ALIGN

21 AUG 75

(BATTERY ON TRICKLE CHG FOR 11 HRS)

- PAINT/BAKE CAM COVERS - ASSEMBLE T. LINKAGE, KNOBS ETC. CHROME FINISH + ACRYLIC LAC
- REMOVE CAES! : NECESSARY TO PROPERLY FIT FUEL LINE: GOES ON LHS OF CAMS

CK FOR LEAKS W/E. FUEL P.: OK

- CK CLEARANCE: UPPER VALVE SPRING TO ROCKER ARM: SOME TOUCH (used .0015 feeler gauge)

cyl :	1	2	3	4	5	6	7	8	9	10	11	12
I			X						X			
E				X	X			X	X			X

"x" indicates touching spring & rocker arm under full valve opening
 DGM advises to "run & look"

- INSTL CAM COVERS, IGN WIRE LOOMS, THROTTLE LINKAGE & RHS OIL FILLER TUBE (LHS AWAITING EXH MANIF GASKETS: EXH MANIF MUST GO ON FIRST)
- GREASE ALL THROTTLE LINKAGE BALL JOINTS
- INSTL CAM SPROCKET COVERS, LHS END PLUG (FRONT)
- FILL SUMP: 10 QTS GTX 20W-50
- CRANK FOR OIL P. TEST - BATTERY W/TAKE (JUMPED) → 40 PSI: SEEMS TIGHT.
- LHS DIST DRIVE SEAL (@ HEAD) LEAKS: NO KEPL @ SWG (20x40x10 S104)
- INSTL LHS OIL MANIF (3 new gaskets @ rear: #7, 8, 9) HEAT SHIELD OIL FILLER PIPE
 Exh manif has to be driven over studs (tighten from #7 & 12 first)

o 562 6122 DUANE BRACKEN

h 938.9351

CHG BATTERY

ON 21 AUG 1700



TURNED OFF W/SHOP LITES!

(DRAINED BATTERY OVERNITE)

ON FULL-TIME OUTLET:

22 AUG ~2000