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Tractor Maintenance Repair and Restoration

Tractor Test and Power Museum, The Lester F.
Larsen

1-1-2009

Co-op E3 Cockshutt 30 Restoration

Tractor Museum

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date 12-15-08

project COOP E3

page 1

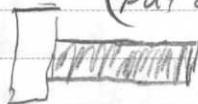
Plan

Engine is stuck. Pop the head to see condition of valves cylinders, rods.

Remove hood mid section

- 2 bolt heads
- 4 bolts $\frac{3}{8} \times \frac{3}{4}$
- (missing) bolts
- 4 locks $\frac{3}{8}$
- 4 $\frac{3}{8}$ nuts

9/16 wrench to loosen
(put on hood)



9/16 wrench to loosen

Img
320
321

- take off button (Drawer 1.2)
- put hood on (bench #1)
- Remove Stack

322
323
324

hood removed

Front Lt head light
Front Right head light

325
326

5 wires from Instrument panel already disconnected

327

Disconnect Gas line from carburetor 9/16 wrench

Remove Thermostat line

329

Remove T-5019 Water outlet from Thermostat casting
to top radiator hose 2- $\frac{3}{8}$ x 1 bolts

330

Remove clamp (put bolts back in)
straight (+ thermostat casting) 2- $\frac{3}{8}$ locks
screw driver (water outlet + clamp in drawer 1.2)

332

Remove air line from carburetor

333

- clamp missing

Remove carburetor (2 bolts $\frac{5}{16}$ x 1 in
2 $\frac{5}{16}$ locks
put on carb
put in drawer 1.2)

334
342

task list: Need 3- $\frac{3}{8}$ x $\frac{3}{4}$ bolts 3- $\frac{3}{8}$ locks + 4- $\frac{3}{8}$ washers
Need 1-clamp for air line to carb

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page 2

Removing head for evaluation

Remove thermostate casting 335

2- 13/16 nuts 336

1- nut came off

1- stud came out 5.5 inch x 1/2 337

(put stud back
in block disconnect water in 344
put nut on block let pipe 345
in stud
Put in drawer 1.2)

Remove exhaust manifold

8- brass nuts 5/8 338

8- 1/2 locks 339

(put all in Drawer 341
1.3 343)

Remove T-5378 of Cooling system water inlet pipe 346

1- bolt 1/2 x 3 3/4 gasket present 347

1- 1/2 washer

Remove Valve Cover (put on #1 bench) 348

9/16 wrench 2 nuts

(2-nuts 9/16 349
nylon gasket
put in drawer 1.4)

Remove valve assembly 350

2 nuts on studs 9/16 (outside) 4 3/8 Flats 351

2 bolts - 3/8 (inside)

4 rocker arm bracket spring clip

(put in drawer 1.4)

task list:

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page 3

Removing valve assembly

Remove 8 push rods $\frac{3}{16}$ $\frac{5}{16}$ $\frac{5}{8}$ (Put in drawer 1.4) 352
353

Remove spark plug wires

Remove oil line 2 brass nuts $\frac{7}{16}$ wrench 354

Removing cylinder head

Remove 14 - $\frac{13}{16}$ nuts

4 studs came out $5 \times \frac{3}{8}$

10 nuts came off $\frac{13}{16}$ 355

Remove Fan assembly

4 blade fan 356

4 bolts $\frac{5}{16}$

4 locks $\frac{5}{16}$

1 spacer $1\frac{1}{2} \times 3$



1 pulley

$4\frac{1}{2}$

(Put in drawer 1.4)

Disconnect cylinder head

358

from generator

$\frac{9}{16}$ wrench

359

$\frac{3}{8} \times \frac{3}{4}$ bolt

360

$\frac{3}{8}$ nut

lock
 $\frac{3}{8}$ washer

(Put back on bracket)
disconnected

361

Remove cylinder head

372

Remove head gasket (put on bench #1)

374

task list:

✓ Picked up tools, ✓ rolled up chords ✓ swept floor