

**Crankcase Overhaul Services**

Weld, Machine and Yellow Tag – Overhaul or Exchange

Ref. Code	Make & Model	List Price	ECi Price
Continental*			
CC1	A Series, C-75, C-85, C-90, 200 Series	1,260.00	756.00
CC2	C-125, C-145, 300 Series	1,550.00	930.00
CC3	E-Series, 360 Series	1,550.00	930.00
CC4	470/520 Series	2,120.00	1,272.00
CC5	TCM GTSIO Series	2,760.00	1,656.00
Lycoming*			
CC6	235, 290, 320, 340, 360 Series	1,420.00	852.00
CC7	435, 480, 540 Series	1,820.00	1,092.00
CC8	TIO-541 Series	2,500.00	1,500.00
CC9	TIGO-541 Series	4,440.00	2,664.00
CC10	720 Series	2,800.00	1,680.00
CC11	Tappet Bore Sleeve Repair	60.00 each	36.00 each
Oil Sump Intake Pipe Repair per SI 1168 B (plus cost of parts)			
CCM29	4 Cylinder	114.00 /Hr***	68.40 /Hr***
CCM30	6 Cylinder	114.00 /Hr***	68.40 /Hr***
—	Accessory Cases (Aluminum and Magnesium)**	114.00 /Hr***	68.40 /Hr***

Parts Included Are: Plugs, Dowels, Cylinder Deck Studs (only when damaged) and Starter Needle Bearing (TCM).

* The above prices include the repair of two (2) tappet bores (if required). Additional tappet bores will be billed at the published rate.

** White tag only for crack inspection. No welding on accessory cases.

*** Minimum hourly rate is one-half (1/2) hour.

Custom Sooner Crankcase Services

Minor Weld and Yellow Tag

ECi will determine eligibility based on work required.

Ref. Code	Type	List Price	ECi Price
Minor Welding (cylinder deck cracks only)			
Lap parting surface			
Line bore main and cam journals to new limits			
Deck height must clean up within 0.010" below new limits			
Best warranty in the business			
CCS1	4 Cylinder Case	1,120.00	672.00
CCS2	6 Cylinder Case	1,260.00	756.00



Crankcase Modifications

Ref. Code	Description	List Price	ECi Price
Crankcases			
Lycoming 4 cylinder crankcase mount conversion from Conical or Dynafocal Type 2 to Dynafocal Type 1			
CCM1	Previously Yellow Tagged Case	480.00	288.00
CCM2	With Overhaul	360.00	216.00
Modify case from small to large bore (per AEC65304)			
CCM3	Previously Tagged Case	570.00	342.00
CCM4	With Overhaul	470.00	282.00
Comply with Lycoming SI 1123C with overhaul (plus cost of parts)			
CCM5	4 Cylinder Crankcases	90.00	54.00
CCM6	6 Cylinder Crankcases	136.00	81.60
Modify for 7th Stud Installation (per SB 90-16) (plus cost of parts)			
CCM7	Previously Yellow Tagged Case	430.00	258.00
CCM8	With Overhaul	380.00	228.00
CCM9	T Modification for 76 Series (per STCSE702NE)	200.00	120.00
CCM10	Comply with TCM SB M92-7 (plus cost of parts)	90.00	54.00
CCM11	Thrustwasher Repair, TCM	171.00	102.60
CCM12	Modify for Cooling Nozzle, TCM (plus parts)	114.00	68.40
CCM14	Helicoil Cylinder Pads, 4 Cylinder, TCM	570.00	342.00
CCM15	SI 1290 Part II Oil Seal Modification	60.00	36.00
CCM16	Match Case to Crank Thrust, TCM	513.00	307.80
CCM17	Machine Oil Inhibitor Groove, LYC	57.00	34.20
CCM18	Modify 470 Bore to 520 Bore, TCM	342.00	205.20
CCM19	Machine for Cooling Nozzle, 4 Cylinder, LYC	342.00	205.20
CCM20	Drill Prop Governor Oil Feed Hole, LYC	57.00	34.20
CCM21	Modify Front Main for 2-piece Bearing, LYC	228.00	136.50
CCM22	Modify Crankcase to Large Bore, 4 Cylinder, LYC	342.00	205.20
CCM23	Oil Seal Snap Ring Repair, LYC	114.00	68.40
CCM24	Modify for Installation of TCM Thrust Washer, LYC	285.00	171.00
CCM25	Repair Oil Press Seat (SI 1172C), LYC (plus parts)	57.00	34.20
CCM26	Convert Pushrod Cups (up/down draft modification), LYC	456.00	273.60
CCM27	Idle Gear Bolt Hole Conversion (1/4" to 5/16"), LYC	114.00	68.40
CCM28	Alodine	83.30	49.98
Accessory Cases (limited inspection & repair)			
CCM31	Tach Boss Repair	342.00	205.20
CCM32	Oil Pump Surface Repair	57.00	34.20
CCM33	Idle Shaft Boss Repair	193.80	116.28
CCM34	Breather Shield Modification (plus cost of parts)	171.00	102.60

Crankcase Repairs

Lap & Linebore Services

Ref. Code	Type	List Price	ECi Price
Continental			
CCL1	4 Cylinder	980.00	588.00
CCL2	6 Cylinder (except GTSIO)	1,120.00	672.00
CCL3	GTSIO Series	1,560.00	936.00
Lycoming			
CCL4	4 Cylinder	980.00	588.00
CCL5	6 Cylinder	1,120.00	672.00
CCL6	8 Cylinder	1,560.00	936.00

The service will include the following:

- Crankcase lapped to ensure flatness.
- Crankshaft and camshaft journals linebored to new limits.
- Relocation of gear train as required to assure proper backlash.
- Hardness test.
- Warranty limited to the repair accomplished on crankcase.
- "White Tag" maintenance release.

The service does not include the following:

- Cleaning or dye penetrant inspection. Customer must clean crankcase, inspect and provide "crack free" certification (A&P number not required).
- Replacement of any parts except those which need to be replaced to accomplish the repair (i.e. Lycoming bearing dowels).
- Compliance with any O.E.M. Service Bulletin will only be at customer request and subject to additional cost.
- Alodine or paint.

FREEDOM™ Brand Crankcase Repair Process

Weld, Heat Treat, Machine and Yellow Tag

Ref. Code	Make & Model	List Price	ECi Price
—	Continental (Process Not Available)	N/A	N/A
Lycoming			
CCF1	235, 290, 320, 340, 360 Series	1,960.00	1,176.00
CCF2	435, 480, 540 Series	2,480.00	1,488.00

Important Notice:

Excessive distortion may occur during the heat treatment process.
 ECi is not responsible if excessive warpage occurs during the heat treatment process.