

KOHLER
ENGINES

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KohlerEngines.com

ENGINE DIVISION, KOHLER CO., KOHLER, WISCONSIN 53044

FORM NO.: TP-2303-J

ISSUED: 12/86

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LITHO IN U.S.A.



1PTP-2303-J



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Carburetor Replacement Evaluation Form

(Attach to Warranty Claim)

Dealer: _____

Inspector: _____

Inspection Date: _____

Model: _____

Serial: _____

Spec: _____

Warranty Claim: _____

Carburetor No.: _____

EWR: _____

Purpose: Please read the Symptoms Observed below and complete only the section that applies to the carburetor failure. This form must be filled out each time a warranty claim is submitted for a replacement carburetor. Any claims submitted without this form attached will be returned.

Symptoms Observed

☐ **Cranks But Does Not Start**

- ☐ Check carburetor solenoid operation.
- ☐ Check fuel supply.

☐ **Dies After Starting**

- ☐ Check fuel quality.²
- ☐ Check fuel supply to carburetor.
- ☐ Check fuel tank venting.
- ☐ Check carburetor solenoid operation.

☐ **Idles Rough/Misfires**

- ☐ Check fuel quality.²
- ☐ Check for intake leaks.
- ☐ Check for dirt/debris in carburetor jets.
- ☐ Check carburetor O-Rings.
- ☐ Verify fuel shut-off solenoid is operational.

☐ **Hunts/Surges**

- ☐ Check fuel quality.²
- ☐ Check governor and speed settings.
- ☐ Check for linkage interferences.
- ☐ Check for dirt/debris in carburetor (lean condition).
- ☐ Check accelerator pump diaphragm.
- ☐ Check fuel pump delivery pressure (1.5 to 2.0 psi).

☐ **Poor Load Pickup**

- ☐ Check fuel quality.²
- ☐ Check governor and speed settings.
- ☐ Check for defective accelerator pump.
- ☐ Check for parasitic loads.

☐ **Black Exhaust Smoke (rich condition)**

- ☐ Check choke setting.
- ☐ Check air filter.³
- ☐ Check accelerator pump for leakage (clamp hose to test).
- ☐ Check for carburetor needle and seat leakage.^{1,3}
- ☐ Check HDAC hose position (L.H. side).

☐ **Flooding Carburetor**

- ☐ Check fuel quality.²
- ☐ Check carburetor needle and seat for leakage.¹
- ☐ Check fuel pump pressure (1.5 to 2.0 psi).

☐ **After Bang on Shutdown**

- ☐ Ensure engine is shutdown according to proper procedure.
- ☐ Verify fuel shut-off solenoid is operational.
- ☐ Check for accelerator pump leakage.

☐ **Other describe** _____

Cause of Failure/Reason Replaced _____

¹If needle/seat is leaking, the recommended cleaning method is to use a cotton swab and mild abrasive to clean the seat. Rinse the abrasive out of the seat with a suitable cleaner and blow dry with compressed air.

²Poor fuel quality (dirt, debris, water, etc.) or the lack of maintenance is **not** covered by warranty.

³Issues which are caused by dirt are **not** covered by warranty.

NOTE: Removal of anti-tamper caps will void warranty.

Kohler recommends the use of fuel stabilizers if engines are to be stored for over 30 days.

K-Series Flat Rate Schedule		Maximum Time (Hr.)				
		Single			Twin	
		K91, K161,K181	K241,K301,K321,K341	KT17,KT19	K582	
Job No.	Description	Std.	Std.	Q*	Std. & Q*	Std. & Q*
	Major Repairs					
4000	Engine R & R	1.0	1.0	1.5	2.5	3.5
4001	Generator Set R & R – Motor Home	2.0	2.0	2.0	2.0	2.0
4002	Engine R & R from Generator Set	1.0	1.0	1.0	2.0	2.5
4010	Short-Block-Replacement	3.0 ⁺	3.0	3.2	3.0	5.0
4011	Miniblock Replacement	3.5 ⁺	3.5	3.7	–	–
4012	Major Overhaul (Includes Valve Service)	5.0	5.0	5.5	6.0	8.0
4013	Minor Overhaul (Excludes Valve Service)	4.0	4.0	4.2	5.0	6.5
4014	Bare Block	4.0 ⁺	–	–	–	7.0
4015	Connecting Rod	2.0	2.0	2.2	5.0	3.5
4016	Piston and/or Rings	2.0	2.0	2.2	3.0	3.5
	Crankshaft					
4020	Crankshaft & Main Bearing R & R	3.0	3.0	3.2	5.0	3.0
4021	Crankshaft – PTO Seal	0.5	0.5	0.5	0.8	0.8
4022	Crankshaft – Flywheel Seal	1.5	1.5	1.7	1.5	2.0
4023	Crankshaft & Connecting Rod	3.0	3.0	3.2	5.0	3.5
4024	Balance Gears – R & R	–	3.0	3.2	–	–
	Camshaft & Valves					
4029	Valve R & R (No Grinding) (Each Cylinder)	1.0	1.0	1.2	1.0	1.5
4030	Valve Tappet Adjustment	1.0	0.5	0.6	1.0	1.0
4031	Valve Grinding (Each Cylinder)	1.2	1.2	1.4	1.2	1.7
4032	Valve Guide Replacement	0.5 ⁺	0.5	0.7	0.8	0.8
4033	Valve Spring Replacement	1.0	1.0	1.2	1.0	1.5
4034	Valve Cover Gasket and/or Breather	0.5	0.5	0.5	0.6	0.5
4035	Camshaft R & R	3.0	3.2	3.4	4.5	3.0
	Ignition					
4040	Ignition Timing	0.3	0.3	0.3	0.5	0.5
4041	Points and/or Condenser – Replace & Adjust	0.5	0.5	0.5	0.5	0.5
4042	Shipping Damaged Spark Plug – Replace & Adjust	0.2	0.2	0.2	0.2	0.2
4043	Spark Plug Wire – Replace (Battery Ignition)	0.2	0.2	0.2	0.2	0.2
4044	Spark Plug Wire – Replace (Magneto Ignition)	1.0	1.0	1.0	–	–
4045	Ignition Coil – Replace	0.3	0.3	0.3	0.3	0.4
4046	Magneto Coil – Test & Replace (Includes Flywheel R & R)	1.0	1.0	1.0	–	–
4047	Flywheel R & R	1.0	1.0	1.0	1.0	1.0
	Charging					
4050	Regulator – Test & Replace	0.5	0.5	0.5	1.0	0.5
4051	Stator – Test & Replace (Includes Flywheel R & R)	1.0	1.0	1.0	1.5	1.5
	Starter					
4060	Retractable – R & R, Replace Rope & Spring	1.0	1.0	1.0	–	–
4061	Starting Motor – Bendix Type R & R	0.5	0.5	0.5	0.5	1.0
4063	Starter – Rebuild (Includes R & R)	1.0	1.0	1.0	1.0	1.0
4064	Starter Drive R & R	0.5	0.5	0.5	0.5	0.5
4065	Starter Solenoid R & R	0.5	0.5	0.5	0.5	0.5
	Carburetor & Air Intake					
4070	Carburetor R & R	0.5	0.5	0.5	0.5	0.5
4071	Carburetor – Rebuild (Includes R & R)	1.0	1.0	1.0	1.0	1.0
4072	Carburetor – Adjust	0.3	0.3	0.3	0.3	0.3
4073	Air Cleaner – Damage in Shipment	0.3	0.3	0.3	0.3	0.3
4074	Fuel Tank – R & R	0.3	0.3	0.3	–	–
4075	Fuel Pump – R & R	0.3	0.3	0.3	0.3	0.3
	Miscellaneous Repairs					
4080	Cylinder Head and/or Gasket – Replace/each	0.5	0.5	0.5	0.6	0.6
4081	Cylinder Head Retorque	0.3	0.3	0.3	0.7	0.7
4082	Shrouds only – R & R	0.2	0.2	0.4	0.5	0.5
4083	Oil Pan and/or Gasket – Replace	0.5	0.5	0.5	–	0.5
4084	Muffler – Replacement	0.3	0.3	0.3	0.3	0.3
4085	Governor – Adjustment	0.5	0.5	0.5	0.3	0.7
4086	Governor Replacement	3.0	3.0	3.7	4.3	1.5
4087	Oil Pump Replacement	–	–	–	2.0	3.0
4088	Crankshaft – Grinding (ENTER NET COST)	–	–	–	–	–
4089	Crankcase – Boring (ENTER NET COST)	–	–	–	–	–

*K141,K161,K181 only

OHC Flat Rate Schedule		Maximum Time (Hr.)	
		Twin	
Job No.	Description	TH16	TH18
	Major Repairs		
4000	Engine R & R	2.5	2.5
4010	Short Block Replacement	3.0	3.0
4011	Miniblock/Crankcase	4.0	4.0
4012	Major Overhaul (Includes Valve Service)	5.0	5.0
4013	Minor Overhaul (Excludes Valve Service)	4.0	4.0
4015	Connecting Rod	3.0	3.0
4016	Piston and/or Rings	3.5	3.5
	Crankshaft		
4020	Crankshaft & Main Bearing R & R	3.0	3.0
4021	Crankshaft – PTO Seal	0.5	0.5
4022	Crankshaft – Flywheel Seal	2.0	2.0
4023	Crankshaft & Connecting Rod	3.0	3.0
	Camshaft & Valves		
4029	Valve R & R (No Grinding)	4.0	4.0
4030	Valve Tappet Adjustment	0.5	0.5
4031	Valve Grinding	4.0	4.0
4033	Valve Spring Replacement	2.5	2.5
4034	Valve Cover Gasket and/or Breather	0.5	0.5
4035	Camshaft R & R	2.5	2.5
4037	Camshaft PTO Seal	2.0	2.0
4038	Timing Belt R & R	1.5	1.5
4039	Rocker Arm	2.5	2.5
	Ignition		
4046	Ignition Module R & R (Includes Both Modules)	1.5	1.5
4047	Flywheel R & R	0.7	0.7
	Charging		
4050	Regulator – Test & Replace	0.5	0.5
4051	Stator – Test & Replace (Includes Flywheel R & R)	1.0	1.0
	Starter		
4060	Retractable – R & R, Replace Rope & Spring	0.5	0.5
4061	Starting Motor – Bendix Type R & R	0.5	0.5
4063	Starter – Bendix Rebuild (Includes R & R)	1.0	1.0
4064	Starter Drive R & R	1.0	1.0
4065	Starter Solenoid R & R	0.3	0.3
	Carburetor & Air Intake		
4070	Carburetor R & R	1.0	1.0
4071	Carburetor – Rebuild (Includes R & R)	1.0	1.0
4072	Carburetor – Adjust	0.3	0.3
4073	Air Cleaner – Damage in Shipment	0.1	0.1
4074	Fuel Tank – R & R	0.5	0.5
4075	Fuel Pump – R & R	0.5	0.5
	Miscellaneous Repairs		
4082	Shrouds only – R & R	0.7	0.7
4083	Oil Pan, Closure Plate, and/or Gasket – Replace	3.0	3.0
4084	Muffler – Replace	0.3	0.3
4085	Governor – Adjustment	0.5	0.5
4086	Governor R & R	2.5	2.5
4087	Oil Pump R & R	2.0	2.0
4088	Crankshaft – Grinding (ENTER NET COST)	—	—
4089	Crankcase – Boring (ENTER NET COST)	A	A
4090	Governor Seal Replacement	0.8	0.8

^ACrankcase cannot be rebored

Courage Twin, Courage PRO Twin, & Aegis Flat Rate Schedule		Maximum Time (Hr.)			
		Courage Twin	Courage PRO Twin	Aegis	
Job No.	Description	SV710-740	SV810-840	LV560-680	LH630-775
4000	Major Repairs				
	Engine R & R	2.5	2.5	2.5	2.5
4002	Engine R & R From Generator Set/Welder	—	—	—	—
4010	Short Block Replacement	3.0	3.0	5.0	5.0
4011	Miniblock	4.0	4.0	6.0	6.0
4012	Major Overhaul (Includes Valve Service)	5.0	5.0	7.0	7.0
4013	Minor Overhaul (Excludes Valve Service)	4.0	4.0	6.0	6.0
4015	Connecting Rod	3.0	3.0	5.0	4.0
4016	Piston and/or Rings	3.0	3.0	5.0	4.0
4020	Crankshaft				
	Crankshaft & Main Bearing R & R	3.0	3.0	2.5	3.8
4021	Crankshaft – PTO Seal	0.5	0.5	0.5	1.5
4022	Crankshaft – Flywheel Seal	1.5	1.5	1.0	1.6
4023	Crankshaft & Connecting Rod	3.0	3.0	1.5	1.5
4028	Camshaft & Valves				
	Lifters	—	—	1.0*	0.5*
4029	Valve R & R (No Grinding)	1.0*	1.0*	3.5*	2.7*
4030	Valve Adjustment	0.5*	0.5*	0.5*	—
4031	Valve Grinding	1.2*	1.2*	3.8**	3.0**
4033	Valve Spring Replacement	1.0*	1.0*	3.3**	2.5**
4034	Valve Cover Gasket and/or Breather	0.5*	0.5*	0.5*	0.5*
4035	Camshaft R & R	2.0	2.0	2.5	2.8
4037	Camshaft PTO Seal	—	—	1.8	2.1
4039	Rocker Arm	0.7*	0.7*	0.5*	0.5*
4046	Ignition				
	Ignition Module R & R (Includes Both Modules)	0.7	0.7	1.5	0.7
4047	Flywheel R & R	1.2	1.2	0.8	1.3
4048	Spark Advance Module/ECU/TPS ¹	1.0	1.0	—	1.0
4049	Speed Sensor	—	—	—	1.0
4050	Charging				
	Regulator – Test & Replace	0.8	0.8	0.5	0.3
4051	Stator – Test & Replace (Includes Flywheel R & R)	1.5	1.5	1.0	1.5
4052	Wiring Harness R & R***	1.0	1.0	1.0	1.0
4055	Cooling System				
	Coolant R & R (Includes Coolant Temp. Switch)	—	—	1.0	0.7
4056	Radiator R & R	—	—	1.5	1.0
4057	Thermostat R & R	—	—	0.5	0.7
4058	Water Pump	—	—	1.7	2.0
4059	Pump Drive Belt	—	—	1.5	1.8
4060	Starter				
	Retractable – R & R, Replace Rope & Spring	—	—	—	—
4061	Starting Motor – Bendix Type R & R	1.0	1.0	0.5	0.5
4063	Starter – Bendix Rebuild (Includes R & R)	1.0	1.0	1.0	1.0
4064	Starter Drive R & R	1.0	1.0	1.0	1.0
4065	Starter Solenoid R & R	0.5	0.5	0.5	0.5
4070	Fuel System & Air Intake				
	Carburetor R & R	0.8	0.8	0.5	0.7
4071	Carburetor – Rebuild (Includes R & R)	1.2	1.2	1.0	1.0
4072	Carburetor – Adjust	0.5	0.5	0.3	0.3
4073	Air Cleaner – Damage in Shipment	0.3	0.3	0.3	0.3
4075	Fuel Pump – R & R	0.3	0.3	0.3	0.3
4076	Intake Manifold	1.0	1.0	2.0	2.0
4077	Injectors/Fuel Rail	—	—	—	1.5

*Time allowed is for each cylinder.

**Additional 0.5 for 2nd cylinder.

***Additional 0.5 for EFI engines.

¹ECU-Engine Control Unit; TPS-Throttle Position Sensor.

^ΔPlated cylinders cannot be rebored.

Command Twin & Command PRO Twin Flat Rate Schedule		Maximum Time (Hr.)			
		Command Twin		Command PRO Twin	
Job No.	Description	CH18-23 CV17-23 CH/CV730-740 CH/CV750	CH/CV25,26 CH/CV745	CH940-980	CV940-980
4000	Major Repairs				
	Engine R & R	2.5	2.5	2.5	2.5
4002	Engine R & R From Generator Set/Welder	4.0	4.0	4.0	4.0
4010	Short-Block Replacement	3.0	3.0	3.0	3.0
4011	Miniblock	4.0	4.0	—	—
4012	Major Overhaul (Includes Valve Service)	5.0	5.0	5.0	5.0
4013	Minor Overhaul (Excludes Valve Service)	4.0	4.0	4.0	4.0
4015	Connecting Rod	3.0	3.0	3.0	3.0
4016	Piston and/or Rings	3.0	3.0	3.5	3.5
4020	Crankshaft				
	Crankshaft & Main Bearing R & R	3.0	3.0	3.5	3.5
4021	Crankshaft – PTO Seal	0.5	0.5	0.8	0.8
4022	Crankshaft – Flywheel Seal	1.5	1.5	1.5	1.5
4023	Crankshaft & Connecting Rod	3.0	3.0	3.0	3.0
4028	Camshaft & Valves				
	Lifters	0.5*	0.5*	2.0	2.0
4029	Valve R & R (No Grinding)	1.0*	1.0*	2.5	2.5
4030	Valve Adjustment	—	—	—	0.3
4031	Valve Grinding	1.2*	1.2*	1.2*	1.2*
4033	Valve Spring Replacement	1.0*	1.0*	1.0*	1.0*
4034	Valve Cover Gasket and/or Breather	0.5*	0.5*	0.3*	0.3*
4035	Camshaft R & R	2.0	2.0	2.7	2.7
4037	Camshaft PTO Seal	—	—	—	—
4039	Rocker Arm	0.5*	0.5*	0.5*	0.5*
4046	Ignition				
	Ignition Module R & R (Includes Both Modules)	1.5	1.5	0.5*	0.5*
4047	Flywheel R & R	1.2	1.2	0.7	0.7
4048	Spark Advance Module/ECU/TPS ¹	1.0	1.0	—	—
4049	Speed Sensor	—	1.0	—	—
4050	Charging				
	Regulator – Test & Replace	0.5	0.5	0.5	0.5
4051	Stator – Test & Replace (Includes Flywheel R & R)	1.5	1.5	1.0	1.0
4052	Wiring Harness R & R***	1.0	1.0	1.0	1.0
4060	Starter				
	Retractable – R & R, Replace Rope & Spring	0.5	0.5	—	—
4061	Starting Motor – Bendix Type R & R	1.0	1.0	0.5	0.5
4063	Starter – Bendix Rebuild (Includes R & R)	1.0	1.0	1.0	1.0
4064	Starter Drive R & R	1.0	1.0	1.0	1.0
4065	Starter Solenoid R & R	0.5	0.5	0.5	0.5
4070	Fuel System & Air Intake				
	Carburetor R & R	0.5*	0.5	0.5	0.5
4071	Carburetor – Rebuild (Includes R & R)	1.0	1.0	0.8	0.8
4072	Carburetor – Adjust	0.3	0.3	1.0	1.0
4073	Air Cleaner – Damage in Shipment	0.3	0.3	0.3	0.3
4075	Fuel Pump – R & R	0.3	0.5	0.3	0.3
4076	Intake Manifold	1.0	1.0	1.5	1.5
4077	Injectors/Fuel Rail	—	1.5	—	—

*Time allowed is for each cylinder.

**Additional 0.5 for 2nd cylinder.

***Additional 0.5 for EFI engines.

¹ECU-Engine Control Unit; TPS-Throttle Position Sensor.

*Plated cylinders cannot be rebored.

¹CH/CV750 is 1.0 hr.

Section 9 – Flat Rate Schedules

Command Pro CS Series Flat Rate Schedule		Maximum Time (Hr.)
Job No.	Description	CS4-12
	Major Repairs	
4000	Engine R & R	1.0
4002	Engine R & R From Generator Set	1.0
4012	Major Overhaul (Includes Valve Service)	4.0
4013	Minor Overhaul (Excludes Valve Service)	3.0
4015	Connecting Rod	2.0
4016	Piston and/or Rings	2.0
	Crankshaft	
4020	Crankshaft & Main Bearing R & R	2.3
4021	Crankshaft – PTO Seal	1.2
4022	Crankshaft – Flywheel Seal	2.2
4023	Crankshaft & Connecting Rod	2.5
4024	Balance Shaft – R & R	1.5
	Camshaft & Valves	
4028	Lifters	1.5
4029	Valve R & R (No Grinding)	1.1
4030	Valve Tappet Adjustment	0.2
4031	Valve Grinding	1.2
4033	Valve Spring Replacement	0.9
4034	Valve Cover Gasket and/or Breather	0.3
4035	Camshaft R & R	1.5
4039	Rocker Arm	0.2
4046	Ignition Module R & R	1.0
4047	Flywheel R & R	1.0
	Charging	
4050	Regulator – Test & Replace	0.5
	Major Repairs	
4051	Stator – Test & Replace (Includes Flywheel R & R)	1.5
	Starter	
4060	Retractable – R & R, Replace Rope & Spring	1.0
4061	Starting Motor – Bendix Type R & R	1.2
4064	Starter Drive R & R	0.5
4065	Starter Solenoid R & R	0.5
	Carburetor & Air Intake	
4070	Carburetor R & R	0.5
4071	Carburetor – Rebuild (Includes R & R)	1.0
4072	Carburetor – Adjust	0.1
4073	Air Cleaner – Damage in Shipment	0.1
4074	Fuel Tank – R & R	0.2
4076	Intake Manifold	0.5
	Miscellaneous Repairs	
4080	Cylinder Head and/or Gasket – Replace/each	0.8
4082	Shrouds only – R & R	0.2
4083	Oil Pan, Closure Plate, and/or Gasket – Replace	1.3
4084	Muffler – Replace	0.2
4085	Governor – Adjustment	0.2
4086	Governor R & R	1.6
4088	Crankshaft – Grinding (ENTER NET COST)	–
4089	Crankcase – Boring (ENTER NET COST)	–
4090	Governor Seal Replacement	1.6
4091	Oil Sentry Module	0.3
4092	Oil Sentry Float	1.5
4093	Gear Reduction R & R	0.6

Preliminary Examination (continued)

Cooling System

1. Flywheel Screen: <input type="checkbox"/> Clean <input type="checkbox"/> Plugged <input type="checkbox"/> Partially blocked (%) _____	2. Cooling fins: <input type="checkbox"/> Clean <input type="checkbox"/> Plugged <input type="checkbox"/> Partially blocked (%) _____
3. Engine exterior: <input type="checkbox"/> Clean <input type="checkbox"/> Dirty <input type="checkbox"/> Oily <input type="checkbox"/> Evidence of prior disassembly or repair <input type="checkbox"/> Visible oil leaks (where) _____	

Carburetor and Fuel Supply

1. Condition of carburetor: <input type="checkbox"/> Okay <input type="checkbox"/> Broken <input type="checkbox"/> Loose <input type="checkbox"/> Shafts worn <input type="checkbox"/> Dirt in throat	2. Settings: <input type="checkbox"/> Main fuel adj. _____ <input type="checkbox"/> Idle fuel adj. _____
3. Condition of fuel: <input type="checkbox"/> Clean <input type="checkbox"/> Fresh <input type="checkbox"/> Stale <input type="checkbox"/> Contaminated (water, debris, etc.)	

Governor

1. Components: <input type="checkbox"/> Intact <input type="checkbox"/> Missing <input type="checkbox"/> Modified <input type="checkbox"/> Bent/Broken	2. Function: <input type="checkbox"/> Operative <input type="checkbox"/> Inoperative <input type="checkbox"/> Modified <input type="checkbox"/> Misadjusted
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Dirt Ingestion

1. Is there evidence of possible dirty entry via: <input type="checkbox"/> Air cleaner <input type="checkbox"/> Carburetor <input type="checkbox"/> Breather <input type="checkbox"/> Gasket/Seal <input type="checkbox"/> Oil fill opening <input type="checkbox"/> Other _____					
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Spark Plug

Spark Plug	Cylinder 1	Cylinder 2	Combustion Deposits	Cylinder 1	Cylinder 2
Gap	in.	in.	Light	<input type="checkbox"/>	<input type="checkbox"/>
Make			Heavy	<input type="checkbox"/>	<input type="checkbox"/>
Number			Color	<input type="checkbox"/>	<input type="checkbox"/>

SECTION 2

EVALUATION PERFORMED BY

Evaluator	Date
Company Name	Type of Acct. <input type="checkbox"/> Central Distributor <input type="checkbox"/> Expert Dealer <input type="checkbox"/> Service Dealer
Address	
City	State
Zip Code	Phone No.

TEAR DOWN ANALYSIS

VALVES	CYLINDER 1		CYLINDER 2	
	Intake	Exhaust	Intake	Exhaust
Stuck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Face Burned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guide Worn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not Damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CLEARANCE: (COLD)	CYLINDER 1	CYLINDER 2
Intake	in.	in.
Exhaust	in.	in.

CONNECTING ROD	CYLINDER 1	CYLINDER 2
Discolored	<input type="checkbox"/>	<input type="checkbox"/>
Broken	<input type="checkbox"/>	<input type="checkbox"/>
Bearing Scored	<input type="checkbox"/>	<input type="checkbox"/>
Cap Screws Loose	<input type="checkbox"/>	<input type="checkbox"/>
Dipper Bent	<input type="checkbox"/>	<input type="checkbox"/>
Dipper Broken	<input type="checkbox"/>	<input type="checkbox"/>
Rod Seized to Crankpin	<input type="checkbox"/>	<input type="checkbox"/>
Rod OK - Not Damaged	<input type="checkbox"/>	<input type="checkbox"/>

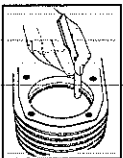
PISTON RINGS	CYLINDER 1	CYLINDER 2
Production Rings	<input type="checkbox"/>	<input type="checkbox"/>
Service Rings	<input type="checkbox"/>	<input type="checkbox"/>
Rings Free in Grooves	<input type="checkbox"/>	<input type="checkbox"/>
Rings Stuck in Grooves	<input type="checkbox"/>	<input type="checkbox"/>

End Gap:

Top _____ in.

Center _____ in.

Oil _____ in.



_____ in.

_____ in.

_____ in.

Note: For Crankshaft, Pistons & Cylinder Bore Measurements - See Page 3.

Standard Warranty Repair - Engine and Labor

Total Credit = List price of replacement Command, Courage, Aegis series engine less 10% (f) + Parts Profit (g) + Freight (see section C) + Posted Full Shop Labor Rate (U.S. dollars) + Miscellaneous Costs (e).

(e) Miscellaneous Cost = Cylinder honing and crankshaft grinding.

(f) K-Series and Magnum engines use net price.

(g) Profit on parts for K-Series and Magnum engines + 10%.

Standard Warranty Repair - Engine and Labor

Total Credit = List price of replacement Command, Courage, Aegis series engine less 10% (f) + Parts Profit (g) + Posted Full Shop Labor Rate (U.S. dollars) + Miscellaneous Costs (e) + Handling Allowance.

(e) Miscellaneous Cost = Cylinder honing and crankshaft grinding.

(f) K-Series and Magnum engines use net price.

(g) Profit on parts for K-Series and Magnum engines + 10%.

2. U.S.A. & CANADA, EXPERT

All Standard Warranty Repairs

Total Credit = List price of replacement engine or parts + Freight + Posted Full Shop Labor Rate (U.S. dollars) + Miscellaneous Costs + Diagnostic + Incidentals (Kohler parts only).

4. INTERNATIONAL, EXPERT

All Standard Warranty Repair

Total Credit = List price of replacement engine or parts + Freight (emergency stock code 4 or 5 only) + Posted Full Shop Labor Rate (U.S. dollars) + Miscellaneous Costs + Diagnostic + Incidentals (Kohler parts only).

3. INTERNATIONAL, NON-EXPERT

Standard Warranty Repair - Parts and Labor (no engines)

Total Credit = Net price of replacement part + Parts Profit (b),(c),(d) + Posted Full Shop Labor Rate (U.S. dollars) + Miscellaneous Costs (e) + Handling Allowance.

C. Freight Cost U.S.A & Canada (FOB and Truck)

Freight costs for warranty work will be reimbursed where a short block, miniblock, or service engine is required. Submit a warranty claim form and a **copy of the freight bill**. No transportation costs for individual parts will be reimbursed (unless required by individual USA State regulations).

(b) Short Blocks or Miniblocks = 10%.

(c) Parts Profit for Authorized Service Outlet = 20%.

(d) Parts Profit for Specialized Service Outlet = 10%.

(e) Miscellaneous Cost = Cylinder honing and crankshaft grinding.

When shipped by a distributor and a freight bill is not available, list in box 13 the FOB charges you received from your distributor and have the Central Distributor representative initial the charge.

Section 8 – Engine Inspection Data Record

A. Engine Inspection Data Record Instructions

Engine Inspection Data Record (TP-2435) must be completed for the following situations: policy adjustments, disputed warranty, or when a short block, miniblock, or engine is required.

Section 1 of the Engine Inspection Data Record should be filled in immediately, when you receive an engine that has had a major failure within the warranty period. If possible, review it while the customer is still present, as you will probably need their input to answer some of the questions. Section 1 should be completed and ready for your distributor representative when they arrive to make their analysis.

Section 2 should be completed, at the time the distributor representative makes their review and analysis, and in the following situations.

1. If the Service Distributor or Expert classified outlet representative cannot make a final decision, due to inconclusive evidence or information. Assistance from the Central Distributor or factory will be required.
2. If the engine is on a piece of commercial equipment more than six months old, and/or the engine has more than 500 hours of running.
3. If the engine has not yet reached the above criteria (less than six months old, less than 500 hours), you need only complete that portion of Section 2 which pertains to the actual failure. For example, if the connecting rod has seized to the crankshaft you would only fill out the "Connecting Rod", "Crankshaft Rod Journal", and "Evaluation Performed By" segments of Section 2. However, if you notice anything else that could have been a contributing factor, such as burned oil deposits on the piston (indicating possible overheating and/or oil breakdown), that should also be noted.

PEESA <small>OUTDOOR POWER EQUIPMENT AND ENGINE SERVICE ASSOCIATION</small>		WARRANTY CLAIM		NO. A 1191554 2 WARRANTY CODE NO.																																		
PLEASE TYPE OR PRINT CLEARLY																																						
1 TYPE OF CLAIM (CHECK ONLY ONE) <input type="checkbox"/> Warranty Repair <input type="checkbox"/> New Defective Service Parts <input type="checkbox"/> Policy Adjustment <input type="checkbox"/> Questionable/Disputed		FOR <input type="checkbox"/> Generac PS <input type="checkbox"/> Kohler <input type="checkbox"/> Tecumseh <input type="checkbox"/> US Motor Power																																				
3 OWNER'S LAST NAME FIRST _____ MI _____ ADDRESS _____ CITY _____ STATE _____ PHONE _____ ZIP _____		4 WARRANTY PERFORMED BY <input type="checkbox"/> DCD <input type="checkbox"/> SD <input type="checkbox"/> DEALER Firm Name _____ Address _____ City _____ State _____ Phone _____ Zip Code _____ Signed _____ Purchased Date: Mo. Day Yr. Failure Date: Mo. Day Yr. Repair Date: Mo. Day Yr. 6 HOURS USED 7 UNIT ORIGINALLY SOLD BY																																				
5 Engine/Transmission Short Block/Model No. Equipment Manufacturer _____ Type of Equipment _____ 6 PARTS HAVE BEEN <input type="checkbox"/> Returned to Factory <input type="checkbox"/> Returned to Central <input type="checkbox"/> Retained & Tagged		Spec No. _____ D.O.M. or Serial No. _____ Engine Received _____ <input type="checkbox"/> Mounted <input type="checkbox"/> Detached		FAILURE SUFFIXES AW- Assembled Wrong FM- Foreign Material SD- Shipping Damage BC- Broken/Cracked IF- Improper Fit SQ- Scored/Chipped BL- Blown LK- Leaked SS- Stuck/Seized BT- Bent/Twisted ML- Missing ST- Stripped CD- Porous/Casting Deficiency NL- Magnet Loose UO- Unknown/Other CL- Come Loose/Off NS- Not Sealing VC- Valve Clearance CP- Corroded/Fitted NY- Noisy WN- Worn EF- Electric Failure QA- Out of Adjustment WP- Warped PM- Part Mated/Matched Incorrectly																																		
9 DEFECTIVE PART NUMBER _____ 10 FAILURE SUFFIX _____		11 Condition Found/Probable Cause of Failure (Word "Defective" Not Sufficient) _____ _____ 12 Job Number/Work Performed. If Necessary to Remove & Replace (R&R) Engine from Equipment, then Show R&R Separately. _____ _____ _____																																				
13 Miscellaneous Freight/Postage Allowance Attach Freight Bill		Dollars _____ Cents _____		16 Part Number Qty. Description <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Part Number</th> <th>Qty.</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Part Number	Qty.	Description																														
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14 Labor <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>HRS.</th> <th>MINS./TENTHS</th> <th>JOB#</th> </tr> </thead> <tbody> <tr><td>Repair 1</td><td> </td><td> </td><td> </td></tr> <tr><td>Repair 2</td><td> </td><td> </td><td> </td></tr> <tr><td>Repair 3</td><td> </td><td> </td><td> </td></tr> <tr><td>Misc. Labor</td><td> </td><td> </td><td> </td></tr> <tr><td>R & R</td><td> </td><td> </td><td> </td></tr> <tr><td>TOTAL</td><td> </td><td> </td><td> </td></tr> </tbody> </table>			HRS.	MINS./TENTHS	JOB#	Repair 1				Repair 2				Repair 3				Misc. Labor				R & R				TOTAL				15 FACTORY USE ONLY OEM Code _____ Defect Code # _____ End Use Code # _____ Division _____								
	HRS.	MINS./TENTHS	JOB#																																			
Repair 1																																						
Repair 2																																						
Repair 3																																						
Misc. Labor																																						
R & R																																						
TOTAL																																						
17 Engine/Short Block/Transmission (Authorized Signature Req'd) Authorized By: _____ Firm Name _____																																						

Box 1: Check box for type of claim and manufacturer.

Box 2: Enter Warranty Code Number.

Box 3: Enter engine owner's name, address, and have owner sign.

Box 4: Enter name of repairing dealer, check box for type of dealer, have technician sign. Enter dates as requested.

Box 5: For regular Engine Warranty Claim – fill in completely, giving all information requested.

A. Parts new defective in stock – Enter "parts" in engine/transmission model number section and leave the remaining sections blank.

B. Short block or miniblock new defective in stock – Enter "parts" in engine/transmission model number section. List the defective assembly part number in the type or spec. number section. List the serial number in the code or serial number section. Leave the remaining sections blank.

C. Parts, short block, or miniblock found defective within 90 days after installation – Enter parts/engine model number (Example: Parts/M8) in engine/transmission model number section. For a miniblock or short block, list the part number in the type or spec. number section. List the serial number of the defective short block or miniblock in the code or serial number section and complete the remaining sections.

NOTE: Boxes 1, 2, 4, 8, and 16 are required for defective service parts. In addition, box 17 must be signed by a Central Distributor representative for non-expert dealers, or a certified Expert Dealer for short block, miniblock, or engine replacement.

Box 6: Record hours used.

Box 7: Enter name of original seller of equipment.

Box 8: Check box describing parts disposition.

Box 9: Enter part number of defective part.

Serial Number Significance

Year of Manufacture identified by:

- | | | | |
|-------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------|
| 1. A Letter | 2. First Two Digits/
If Seven Digit
Number | 3. First Two Digits/If Eight
or Ten Digit Number | Remaining digits are
a factory code. |
|-------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------|

E-172452 9276430 10026692 1501897591

A	1965	10-19	1969	10	1980	23	1993	36	2006
B	1966	20-29	1970	11	1981	24	1994	37	2007
C	1967	30-39	1971	12	1982	25	1995	38	2008
D	1968	40-49	1972	13	1983	26	1996		
E	1969	50-59	1973	14	1984	27	1997		
		60-69	1974	15	1985	28	1998		
		70-72	1975	16	1986	29	1999		
		73-79	1976	17	1987	30	2000		
		80-89	1977	18	1988	31	2001		
		90-94	1978	19	1989	32	2002		
		95-99	1979	20	1990	33	2003		
				21	1991	34	2004		
				22	1992	35	2005		

Section 4 – Warranty Service Parts

A. Policy

Service parts, short blocks, miniblocks, and accessory kits are warranted against manufacturing defects in workmanship and material for a period of 90 days from date of purchase by the original user.

B. Defective Service Parts (New Inventory)

When a part from new service part inventory is found to be defective in material or workmanship, file a Warranty Claim as described in Section 6.

Short blocks, miniblocks, and engines must have Central Distributor approval for non-expert dealers, or certified Expert Dealer approval with signatures.

Transportation costs for parts replacement will not be reimbursed. Unless required by individual state.

C. Defective Service Parts (Installed)

If a new service part was installed by an authorized Kohler service outlet, and failed within 90 days after installation, submit a Warranty Claim for parts and labor as described in Section 6.

For service parts installed by persons other than authorized Kohler service outlets, and failed within 90 days from date of purchase, submit a Warranty Claim and proof of purchase for the defective part only (no labor), as described in Section 6.

Short blocks, miniblocks, and engines must have Central Distributor approval for non-expert dealers, or certified Expert Dealer approval with signatures.

If the defective new parts are components of an assembly, repair the assembly by replacing the defective parts whenever this is economically feasible. For example, if the bearing plate on a short block assembly is cracked, due to obvious material defect, replace the bearing plate and submit a warranty claim for the repair.

D. Defective Service Parts (Installed During Engine Warranty Period)

Warranty coverage for components installed during an engine warranty period shall consist of the duration of the engine warranty coverage*** or 90 days, whichever is greater, provided the warranty installation is performed by an authorized Kohler service outlet.

E. Warranty Options and Accessories

1. Options (Factory Installed)

All factory installed options are warranted against defects in workmanship or material for the normal engine warranty period.***

2. Accessories (Field Installed)

All field installed accessories are warranted against defects in material and workmanship for the duration of the engine warranty period*** or 90 days, whichever is greater, provided the installation was performed by an authorized Kohler service outlet.

***Except consumable items such as mufflers and maintenance items.

B. Warranty Repair Authorization

Only registered Kohler Service Accounts are authorized to perform Kohler engine warranty repairs. A Service Information Record form must be completed and on file at Kohler Co. before a service account will be authorized to do warranty repairs. These forms are to be submitted through your Central Distributor.

To change your Retail Labor Rate or Warranty Discount information, have your Central Distributor complete a new Service Information Record and submit the updated information to Kohler Co. Change to the Retail Labor Rate or Warranty Discount must be received at Kohler Co., Kohler, Wisconsin, 30 days prior to the effective date of change.

The information on the Service Information Record will be used by Kohler Co. for warranty processing and update mailings. If **any** of the information changes (company name, address, ownership, key personnel, etc.), be certain to notify your Central Distributor, so they can update their records. They will submit the updated data to Kohler Co.

C. Manufacturing Defects Covered

The warranty applies to repair and replacement of defective parts caused by faulty material and/or workmanship in manufacture. It does not apply to defects caused by negligence in servicing or operating an engine.

The following conditions cannot be considered under warranty:

- Normal wear.
- Routine tune-up or adjustment.
- Damage due to improper handling or accident.
- Damage due to operating at speeds or load conditions contrary to published specifications.
- Damage due to improper or insufficient lubrication.
- Damage from overheating due to clogged air intake and cooling fins.
- Damage caused by improperly serviced or inadequate air cleaner.
- Damage due to improper storage.

D. Major Warranty Repair

Repairs that require a new short block, miniblock, or engine must be approved by a Central Distributor representative for non-expert dealers, or a certified Expert Dealer, and require that section one of the Engine Inspection Data Record be completed before such approval is requested or granted (see Section 8). A new short block or engine can only be used for a warranty repair if the engine has clearly failed due to an identifiable defect in materials or workmanship. In addition, the engine must either be damaged beyond repair, or the cost of the repair must have been

calculated to exceed 90% of the cost of the short block or engine to be used.

If an engine or short block is desired for reasons not explained above, this approval must be provided by a certified Central Distributor representative. Regardless of the circumstances, the failed engine or block must be retained or returned to the authorizing party. If the replacement guidelines explained above have been met and/or appropriate approval has been received, promptly repair the engine and submit a properly filled in Warranty Claim Report (see Section 6) to Kohler Co. **within 30 days** after making the repair. Warranty claims for engines and short blocks must be accompanied by a copy of the original invoice to verify the actual engine and shipping costs (this documentation can either be attached to the online warranty form or faxed to Kohler at 920-459-1743). Warranty claims authorized by Expert Dealers must be submitted online with a copy of the claim going to the appropriate Central Distributor representative. Note: An engine or short block replacement may be done in advance of the needed preapproval as long as the customer is aware that they may be responsible for the repair cost depending on the findings by Central Distributor or factory representative.

E. Carburetor Warranty Replacement

Warranty claims for carburetor replacements must include the use of the Carburetor Replacement Evaluation Form (TP-2570, shown on page 30). This form must be filled out each time a warranty claim is submitted for a replacement carburetor. Hard copies of this form can be made and submitted along with the paper claims or an electronic version of the form can be completed online and submitted as an attachment with the online warranty claim form. Any claims submitted without this form attached will be returned.

F. Retaining Failed Parts

A claim number is imprinted on each Warranty Claim Report. Tag all parts replaced under a particular warranty claim with the corresponding claim number and keep those parts until you have received your warranty reimbursement. Kohler Co. may request return of some parts for study, but if specific instructions are not given prior to receipt of your reimbursement check, the failed parts may be discarded.

NOTE: Do not return failed parts unless you have received instructions and an Engine Warranty Return (EWR) Number from the Kohler Co.

G. Return of Failed Parts

When Kohler Co. does request the return of failed parts, formal instructions, plus a label with an EWR Number, will be issued to the service account involved. This label must be used to return the part or parts requested. The instructions will include directions for the return shipment.

Listed below are the parts covered by the Federal and California Emission Control Systems Warranty. Some parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part. The warranted parts include the following if they were present in the engine purchased:

- | | |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------|
| • Oxygen sensor (if equipped) | • Ignition module(s) with high tension lead |
| • Intake manifold (if equipped) | • Gaseous fuel regulator (if equipped) |
| • Exhaust manifold (if equipped) | • Electronic control unit (if equipped) |
| • Catalytic muffler (if equipped) | • Carburetor or fuel injection system |
| • Thermal reactor muffler (if equipped) | • Fuel metering valve (if equipped) |
| • Fuel lines, fuel line fittings and clamps (if equipped) | • Air filter, fuel filter, and spark plugs (only to first scheduled replacement point) |
| • Spark advance module (if equipped) | • Evaporative System (if equipped) |
| • Crankcase breather | - Canister (if equipped) |
| • Air Injection System (if equipped) | - Canister filter (if equipped) |
| - Air pump or pulse valve assembly (if equipped) | - Vapor hose (if equipped) |
| - Control/distribution valve (if equipped) | - Orifice connector (if equipped) |
| - Distribution manifold (if equipped) | - Fuel tank (if equipped) |
| - Air hoses (if equipped) | - Fuel cap (if equipped) |
| - Vacuum lines (if equipped) | - Primer bulb canister (if equipped) |

LIMITATIONS

This Emission Control Systems Warranty shall not cover any of the following:

- repair or replacement required because of misuse or neglect, improper maintenance, repairs improperly performed or replacements not conforming to Kohler Co. specifications that adversely affect performance and/or durability and alterations or modifications not recommended or approved in writing by Kohler Co.,
- replacement of parts and other services and adjustments necessary for required maintenance at and after the first scheduled replacement point,
- consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.,
- diagnosis and inspection fees that do not result in eligible warranty service being performed, and
- any add-on or modified part, or malfunction of authorized parts due to the use of add-on or modified parts.

MAINTENANCE AND REPAIR REQUIREMENTS

The owner is responsible for the proper use and maintenance of the engine. Kohler Co. recommends that all receipts and records covering the performance of regular maintenance be retained in case questions arise. If the engine is resold during the warranty period, the maintenance records should be transferred to each subsequent owner. Kohler Co. reserves the right to deny warranty coverage if the engine has not been properly maintained; however, Kohler Co. may not deny warranty repairs solely because of the lack of repair maintenance or failure to keep maintenance records.

Normal maintenance, replacement or repair of emission control devices and systems may be performed by any repair establishment or individual; however, **warranty repairs must be performed by a Kohler authorized service center.** Any replacement part or service that is equivalent in performance and durability may be used in non-warranty maintenance or repairs, and shall not reduce the warranty obligations of the engine manufacturer.

K-Series Warranty Statement

Limited 1 Year Engine Warranty

We warrant to the original consumer that each new engine sold by us will be free from manufacturing defects in materials or workmanship in normal service for a period of one (1) year from date of purchase, provided it is operated and maintained in accordance with Kohler Co.'s instructions and manuals.

Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Kohler Co., Kohler, Wisconsin 53044, or at a service facility designated by us, of such part or parts as inspection shall disclose to have been defective.

EXCLUSIONS:

Mufflers on engines used commercially (non-residential) are warranted for one (1) year from date of purchase, except catalytic mufflers, which are warranted for two (2) years.

This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

The following items are not covered by this warranty:

Engine accessories, such as fuel tanks, clutches, transmissions, power drive assemblies, and batteries, unless supplied or installed by Kohler Co. These are subject to the warranties, if any, of their manufacturers.

WE SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to labor costs or transportation charges in connection with the replacement or repair of defective parts.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is anyone authorized to make any in our behalf.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE:

Purchaser must bring the engine to an authorized Kohler service facility. For the facility nearest you, consult your Yellow Pages under "Engines-Gasoline" or phone 1-800-544-2444.

ENGINE DIVISION, KOHLER CO., KOHLER, WISCONSIN 53044

Service Parts Warranty

Limited 90 Day Service Parts Warranty

We warrant to the original consumer that each new service part sold by us will be free from manufacturing defects in materials or workmanship in normal service for a period of 90 days* from date of purchase, provided it is installed properly and the engine maintained in accordance with Kohler Co.'s instructions and manuals.

Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Kohler Co., Kohler, Wisconsin 53044, or at a service facility designated by us, of such part or parts as inspection shall disclose to have been defective.

EXCLUSIONS:

This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

The following items are not covered by this warranty:

Engine accessories, unless supplied or installed by Kohler Co. These are subject to the warranties, if any, of their manufacturers.

WE SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to, labor costs or transportation charges in connection with the replacement or repair of defective parts.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is anyone authorized to make any in our behalf.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE:

Purchaser must bring the service parts to an authorized Kohler service facility. For the facility nearest you, consult your Yellow Pages under "Engines-Gasoline" or phone 1-800-544-2444.

ENGINE DIVISION, KOHLER CO., KOHLER, WISCONSIN 53044

*One-year limited warranty for long blocks.

Section 2 – Limited Warranty Statements

KOHLER Aegis® Warranty Statement Limited 3 Year Kohler Aegis® Engine Warranty

Kohler Co. warrants to the original retail consumer that each new KOHLER AEGIS® engine sold by Kohler Co. will be free from manufacturing defects in materials or workmanship in normal residential service for a period of three (3) years from date of purchase, provided it is operated and maintained in accordance with Kohler Co.'s instructions and manuals.

Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Kohler Co., Kohler, Wisconsin 53044, or at a service facility designated by us of such parts as inspection shall disclose to have been defective.

EXCLUSIONS:

Mufflers on engines used commercially (non-residential) are warranted for one (1) year from date of purchase, except catalytic mufflers, which are warranted for two (2) years.

This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

The following items are not covered by this warranty:

Engine accessories such as fuel tanks, clutches, transmissions, power-drive assemblies, and batteries, unless supplied or installed by Kohler Co. These are subject to the warranties, if any, of their manufacturers.

KOHLER CO. AND/OR THE SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to labor costs or transportation charges in connection with the repair or replacement of defective parts.

IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is any one authorized to make any on our behalf.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

TO OBTAIN WARRANTY SERVICE:

Purchaser must bring the engine to an authorized Kohler service facility. To locate the nearest facility, visit our website, www.kohlerengines.com, and click on SALES AND SERVICE to use the locator function, consult your Yellow Pages or telephone 1-800-544-2444.

ENGINE DIVISION, KOHLER CO., KOHLER, WISCONSIN 53044

KOHLER COURAGE® SV470-610, SV710-740 ENGINE LIMITED WARRANTY

Kohler Co. warrants to the original retail consumer that each new COURAGE® engine sold by Kohler Co. will be free from manufacturing defects in materials or workmanship in normal residential homeowner service for a period of two (2) years from date of purchase, provided it is operated and maintained in accordance with Kohler Co.'s instructions and manuals. If used commercially the COURAGE® engine is covered by a 90 day limited warranty.

The warranty period begins on the date of purchase by the original retail consumer or commercial end user. "Residential homeowner service" means residential use by a retail consumer. "Commercial use" means all other uses, including use for commercial, or rental purposes. Once in commercial use, the engine will thereafter be considered a commercial use engine for the purposes of this warranty.

Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Kohler Co., Kohler, Wisconsin 53044, or at a service facility designated by us of such parts as inspection shall disclose to have been defective.

EXCLUSIONS:

Mufflers on engines used commercially (non-residential) are warranted for 90 days from date of purchase.

This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

The following items are not covered by this warranty:

Engine accessories such as fuel tanks, clutches, transmissions, power-drive assemblies, and batteries, unless supplied or installed by Kohler Co. These are subject to the warranties, if any, of their manufacturers.

KOHLER CO. AND/OR THE SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to labor costs or transportation charges in connection with the repair or replacement of defective parts.

IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is any one authorized to make any on our behalf.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE:

Purchaser must bring the engine to an authorized Kohler service facility. To locate the nearest facility, visit our website, www.kohlerengines.com, and click on SALES AND SERVICES to use the locator function, consult your Yellow Pages or telephone 1-800-544-2444.

ENGINE DIVISION, KOHLER CO., KOHLER, WISCONSIN 53044

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