

WHITEHEAD

AUSTRALIA'S FINEST
CHAIN SAW
FOR PROFESSIONAL LOGGERS
AND PULPWOODERS



MODEL 119

INSTRUCTION MANUAL
PARTS LIST
PRICE LIST

(All prices comparative as of Sept., 1961.
and subject to change without notice.)

(When Ordering Give Model No. and Description with Part No.)

WHITEHEAD CHAIN SAW COMPANY (Aust.) Pty. Ltd.
15 JOHNSTON STREET, FITZROY
VICTORIA



Dear Customer,

You have purchased the finest chain saw available. Protect your investment with three equally fine products — BP Energol Two Stroke Oil, BP Regular Motor Spirit and BP Energol Chain Oil.

We have found as a result of our extensive experience in the chain saw industry that these three products marketed by BP Australia Ltd. offer our chain saw the maximum protection.

BP Energol Two Stroke Oil is a special product particularly designed to have those extra features so important to today's two stroke engines.

BP Regular Motor Spirit is blended from the finest crudes, using the latest methods.

BP Energol Chain Oil has been specially developed for the purpose. It is a lubricant with high adhesive properties and incorporates a special anti-wear additive for use in our chain oil tank and gear case. Insist on these products by name.

WHITEHEAD CHAIN SAW CO. (Aust.) Pty. Ltd.

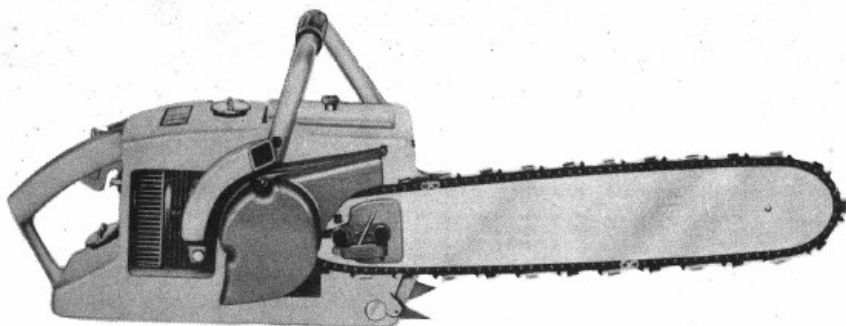
15 Johnston Street, Fitzroy, Victoria, Australia,

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OWNER'S PARTS MANUAL

WHITEHEAD CHAIN SAW



MODEL 119

Before operating your saw, carefully read the instructions in this manual.

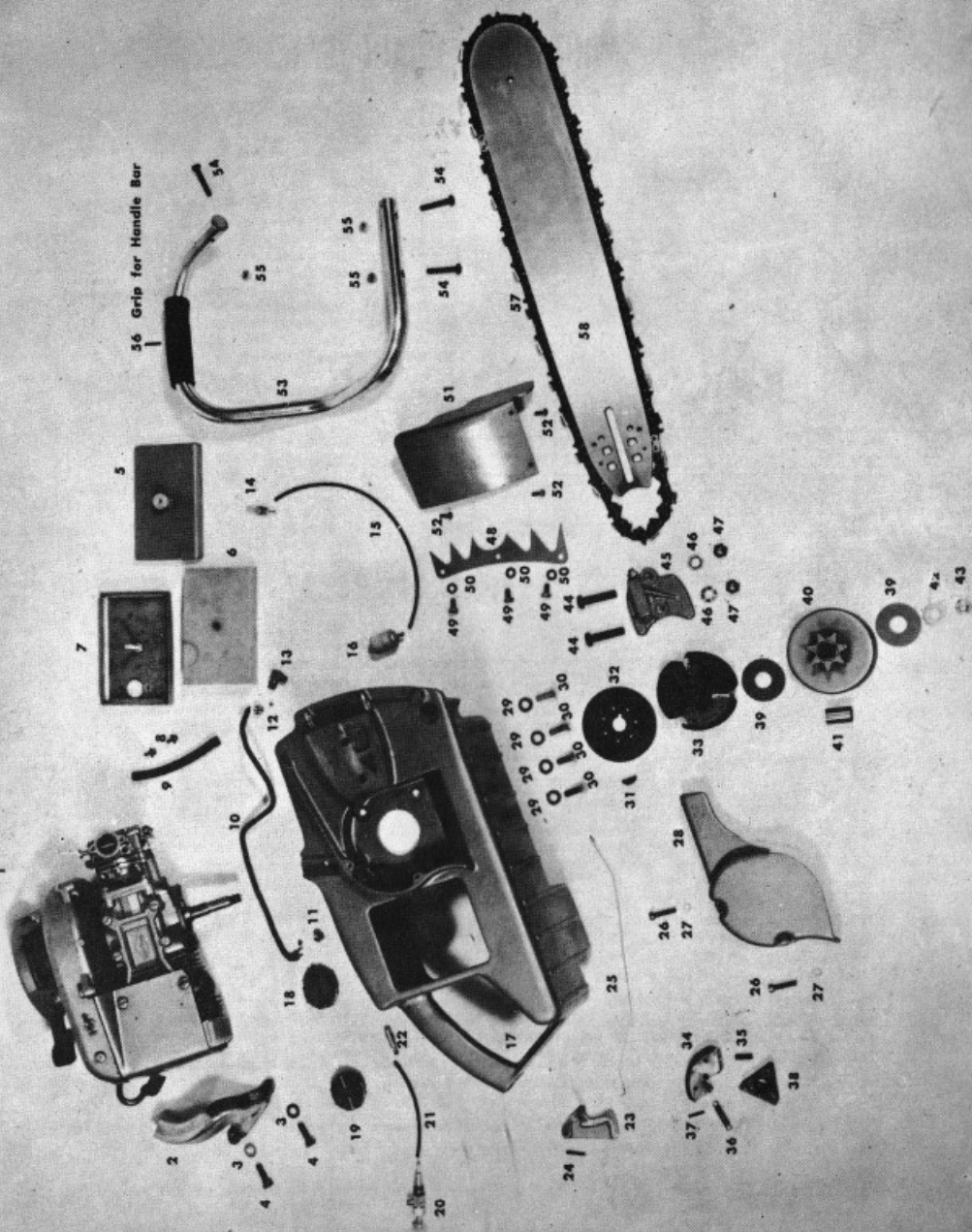
The break-in period is important, even though your saw engine has been run-in and the carburetor has been adjusted before it left the factory. Never run the saw with the throttle more than one-half open for the first 15 minutes of operation. During this period make certain that all moving parts function freely. When a saw is run-in properly and correctly maintained, it will result in satisfactory service under the rugged conditions normally associated with wood cutting.

See inside pages for breakdown of parts, except engine. Refer to engine manufacturer manual for further instruction on engine operation and for parts.

Turn to back page for engine lubrication, how to start the engine, chain and guide bar lubrication, air filter and chain maintenance. For best results use only BP products.

WHITEHEAD CHAIN SAW COMPANY (AUST.) P/L

**15 JOHNSTON STREET
FITZROY, MELB.**



Illus. No.	Part No.	Pieces Per Saw				Description
1	82008	1	80	5	9	Engine for Model 120
1	61008	1	80	5	9	Engine for Model 119
2	6308	1	2	3	10	Muffler
3	6146	2		1	6	Washer for Muffler
4	6140	2		2	0	Bolts for Muffler
5	6358	1		13	6	Air Filter Cover Assem.
6	6359	1		17	6	Air Filter
7	6357	1		13	6	Air Filter Base
8	3058	2			9	Bolts — Air Filter to Carb.
	6142	2			9	Lockwasher for Above
9	6021	1		6	9	Gas Line — Outside
10	6007C	1		12	2	Oil Line with Neoprene Cover
	6307	1		8	1	Neoprene Cover Only
11	6049	2		1	5	Compression Nut for Oil Line
12	6049F	2			9	Ferrule for Above Nut
13	6006	1		3	3	"L" Fitting for Oil Line
14	6318	1		6	9	Gas Tank Connector
15	6320	1		3	2	Gas Tank Pick Up Line — Inside
16	6319	1		8	3	Gas Tank Filter Assem.
	6319E	1		2	0	Gas Tank Filter Element Only
17	6305	1	22	19	6	Main Casting
18	6014-0	1		17	10	Oil Cap Complete
19	6013	1	1	3	6	Gas Cap Complete
	6046	2		2	3	Gas and Oil Cap Gasket
20	6311	1	2	7	1	Oil Pump
21	6309	1		3	2	Oil Tank Pick Up Line — Inside
22	6306	1		5	9	Oil Tank Filter Assem.
23	6316	1		16	11	Trigger with Bushing
24	6304	1		1	6	Trigger Pin
25	6317	1		2	3	Trigger Wire
26	6131	2		1	6	Bolts for Sprocket Cover
27	6145	2			9	Lockwasher for Above
28	6002-1	1	1	6	3	Sprocket Cover — For Bar
	6002B-1	1	1	6	3	Sprocket Cover — For Bow
29	6146	4		1	6	Washer — Under Eng. Mounting Bolts
30	6140	4		1	6	Bolts — For Mounting Engine
31	6350	1		1	6	Clutch Key
32	5013-4	1		2	0	Clutch Washer
33	5021	1	4	11	11	Clutch Complete
34	5017	3	1	0	3	Clutch Shoe
35	5020	3			9	Clutch Shoe Wear Pin
36	5018	3		2	10	Clutch Spring
37	5019	3			9	Spring Pin
38	5022	1	1	4	4	Clutch Hub Only
39	5013-2	2		2	6	Sprocket Washer
40	5008D	1	3	18	9	Drum and Sprocket Assem.
	5008E	1		13	6	Bearing for Drum and Sprocket
41	50085	1		16	10	Sleeve for Drum and Sprocket
42	5013-1	1		1	5	Washer
43	6127	1		3	3	Sprocket Nut
44	6108	2		2	6	Bar Mounting Bolts
45	6003	1	1	17	0	Tension Device
46	6122	2		1	6	Washer — Under Bar Nuts
47	6121	2		1	6	Bar Mounting Nuts
48	6088	1	1	0	3	Spike
49	6144	3		1	6	Spike Bolts
50	6136	3			9	Lockwasher for Above
51	6322	1	1	15	2	Carburetor Cover Plates
52	6143	2			9	Cover Plate Bolts
53	6301	1	4	5	9	Flush Cut Handle Complete (Standard)
	6302	1	4	5	9	Wrap Around Handle Complete
54	6129	3		1	6	Bolts—For Handle Bar
55	6102	3			9	Locknuts for Above
56	6001A-1	1		4	2	Grip for Handle Bar
57	6034					16" Chain
	6035					20" Chain
	6036					24" Chain
	6040					28" Chain
	6038					15" Bow Chain
58	6029					16" Guide Bar
	6030					20" Guide Bar
	6031					24" Guide Bar
	6038					28" Guide Bar
	6097					15" Bow Track Assem. Complete
	6033-2					15" Bow Track Only
	6041					Pair Bow Spikes
	6033G					Bow Track Chain Guard

READ CAREFULLY BEFORE OPERATING YOUR CHAIN SAW

ENGINE LUBRICATION

The two cycle engine in your saw does not have a crankcase. Therefore, regular motor spirit and motor oil are mixed to provide fuel to run the engine and provide lubrication for moving parts and the cylinder wall. Improper fuel mixture will cause loss of horsepower, overheating, and damage to the engine.

- Fuel mixture should be $\frac{3}{4}$ pint of BP Energol Two Stroke Oil to every gallon of BP regular grade motor spirit.
- Motor spirit and oil should not be put in fuel tank without first mixing thoroughly, by shaking it in a clean metal container.

HOW TO START THE ENGINE

1. Move the choke lever on the carburetor back to the choke position.
2. Flip the ignition switch to "ON" position.
3. Hold the throttle trigger to open position, and pull the starter cord.
 - To prevent undue wear on all moving parts, and to prolong the useful life of the starter, it is essential to use the starter properly.
 - Pull the starter cord back slowly, about four inches, until the friction shoe plates have engaged in the cup. Then, with a continuous movement, pull the starter cord back quickly about two feet. Never pull the cord all the way out as this may cause breakage of the cord, or other parts. Do not pull the cord suddenly with a strong, quick jerk. It may damage the spring, or break the cord.
4. Release the starter cord when engine starts. Move choke lever forward as the engine warms up.
5. A warm engine generally does not require choking when it is started. To over-choke will cause flooding. To start a flooded engine, continue cranking with the choke lever in the forward (or open) position, and the throttle trigger completely compressed.

GUIDEBAR AND CHAIN LUBRICATION

A manually operated oil pump located to the left of the rear handle is used to lubricate the guidebar and chain. Push in the oil pump several times when the saw is first started, between cuts, and while cutting. The chain should never run long without pumping oil to it (while cutting, depending on conditions, every 12 to 15 seconds).

- Before starting the saw, the oil tank should be filled, and as often as necessary, to always assure availability of oil.
- Use only BP Energol Chain Oil which contains special additives to ensure long chain and guide bar life.

AIR FILTER

The air filter prevents dirt and other matter from entering the engine through the carburetor. Each day, the element should be cleaned by washing with the same regular motor spirit and oil mixture used as fuel for the engine. When conditions are extremely dusty, more frequent cleaning may be required. A dirty, clogged air filter will cause heating and loss of horsepower.

- To clean the air filter element, remove the air filter cover assembly. Take out element and wash as described above.
- Reinstall element in proper position, put cover on, and secure with screw.

CHAIN MAINTENANCE

It is recommended that the chain be maintained according to instructions provided by the chain manufacturer.

**OPERATING INSTRUCTIONS AND PARTS LIST
FOR**



Power Bee

**"L" Series
ENGINE**

MODEL

61006

CU. IN. DISPLACEMENT

6.10 (100 c. c.)

BORE AND STROKE

2.187 x 1.62

Always mention both the Model Number and Serial Number of your engine when ordering parts.

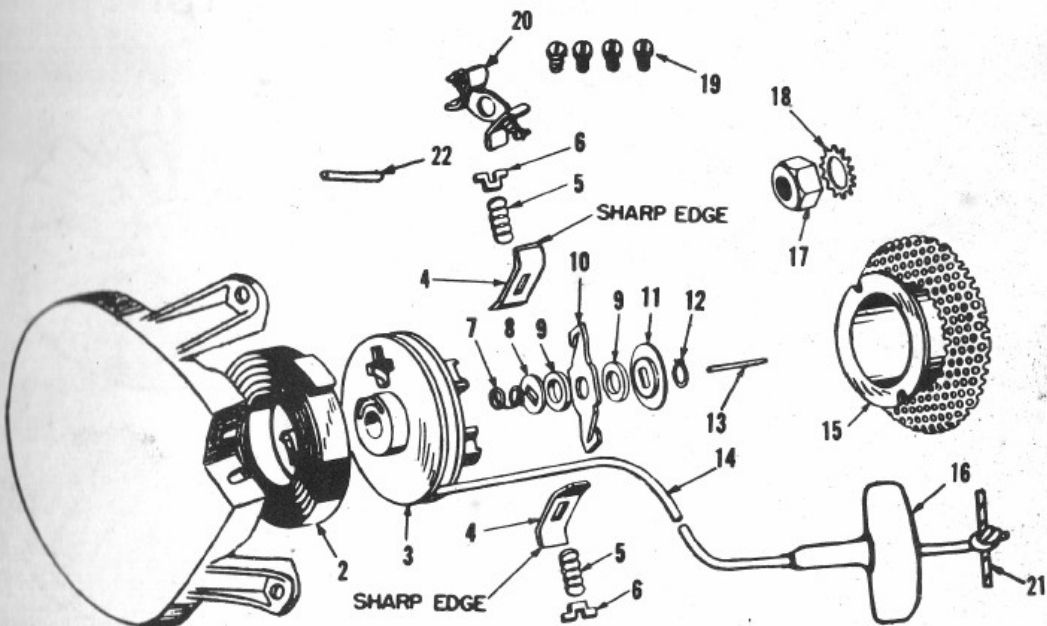
These numbers are found on the identification plate attached to the engine.

THE WEST BEND COMPANY

ENGINE DIVISION: HARTFORD, WISCONSIN

Eng. 178

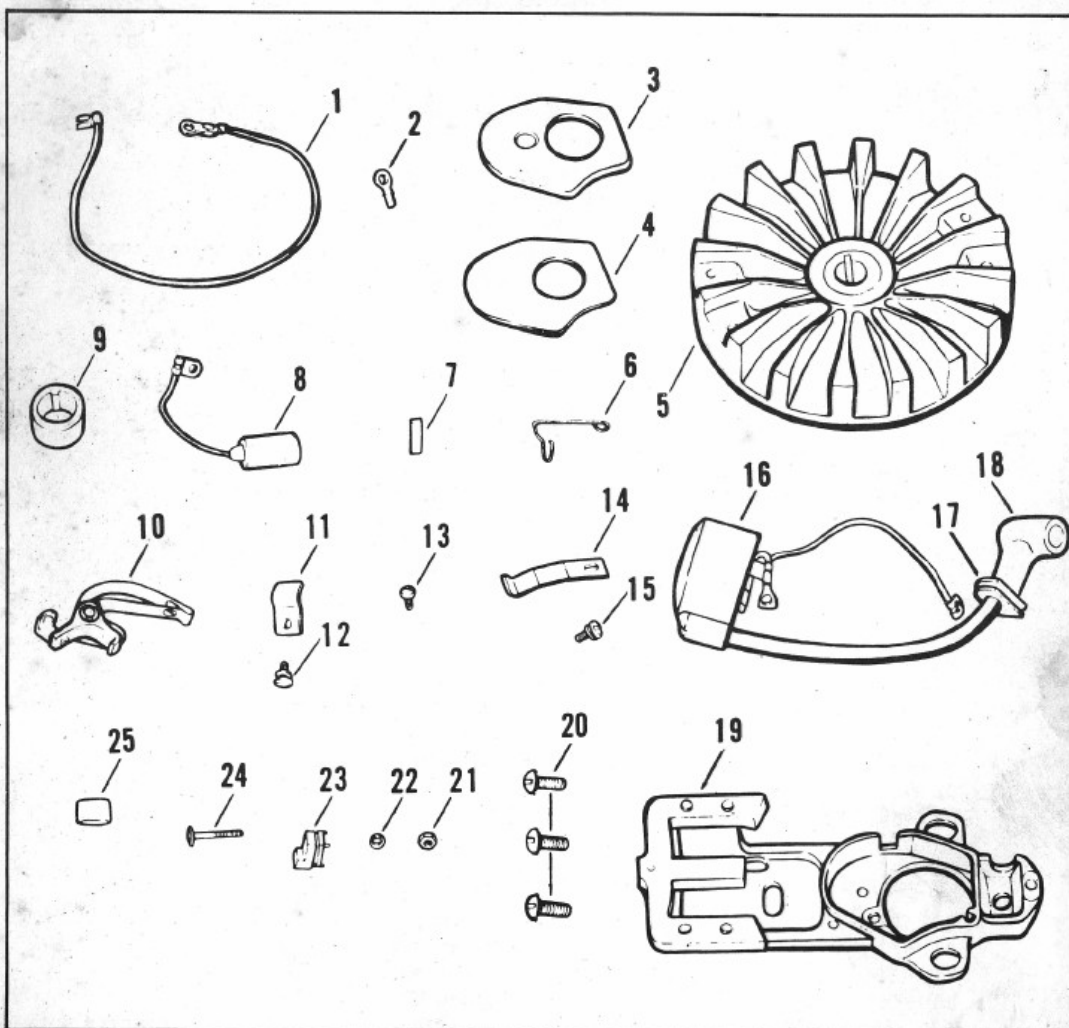
Starter



ILLUS. No.	PART No.	QTY.	PRICE	DESCRIPTION
4001	151-175	1	3 11 6	Cover
4002	20-35	1	1 12 5	Rewind spring
4003	13-18	1	1 12 5	Rotor
4004	11-71	2	4 2	Friction shoe plate
4005	20-2	2	1 6	Friction shoe spring
4006	11-19	2	2 1	Spring retainer plate
4007	20-3	1	1 6	Brake spring
4008	27-3	1	1 6	Brake washer
4009	27-2	2	1 6	Fibre washer
4010	16-4	1	2 1	Brake lever
4011	27-8	1	2 1	Brake retainer washer
4012	29-3	1	1 6	Retainer ring
4013	25-9	1	1 6	Centering pin
4014	140-6	1	6 9	Cord
4015	114-100	1	1 19 9	Cup and screen assembly
4016	A44-14	1	1 4 3	T-handle
4017	7/16-20	1	3 7	L.H. thick hex nut
4018	8051	1	1 6	Ext. tooth lockwasher (left hand)
4019	10-24 x 3/8	4	9	Pan head screw w/int.-ext. tooth lockwasher
4020	111-71	1		Friction shoe assembly, includes: Items 4, 5, 6 and 10
4021	25-55	1	2 1	Spiral pin
4022	25-57	1	1 6	Roll pin
	174063	1	9 17 7	Complete starter assembly.

- Not shown (425-114L)

Magneto

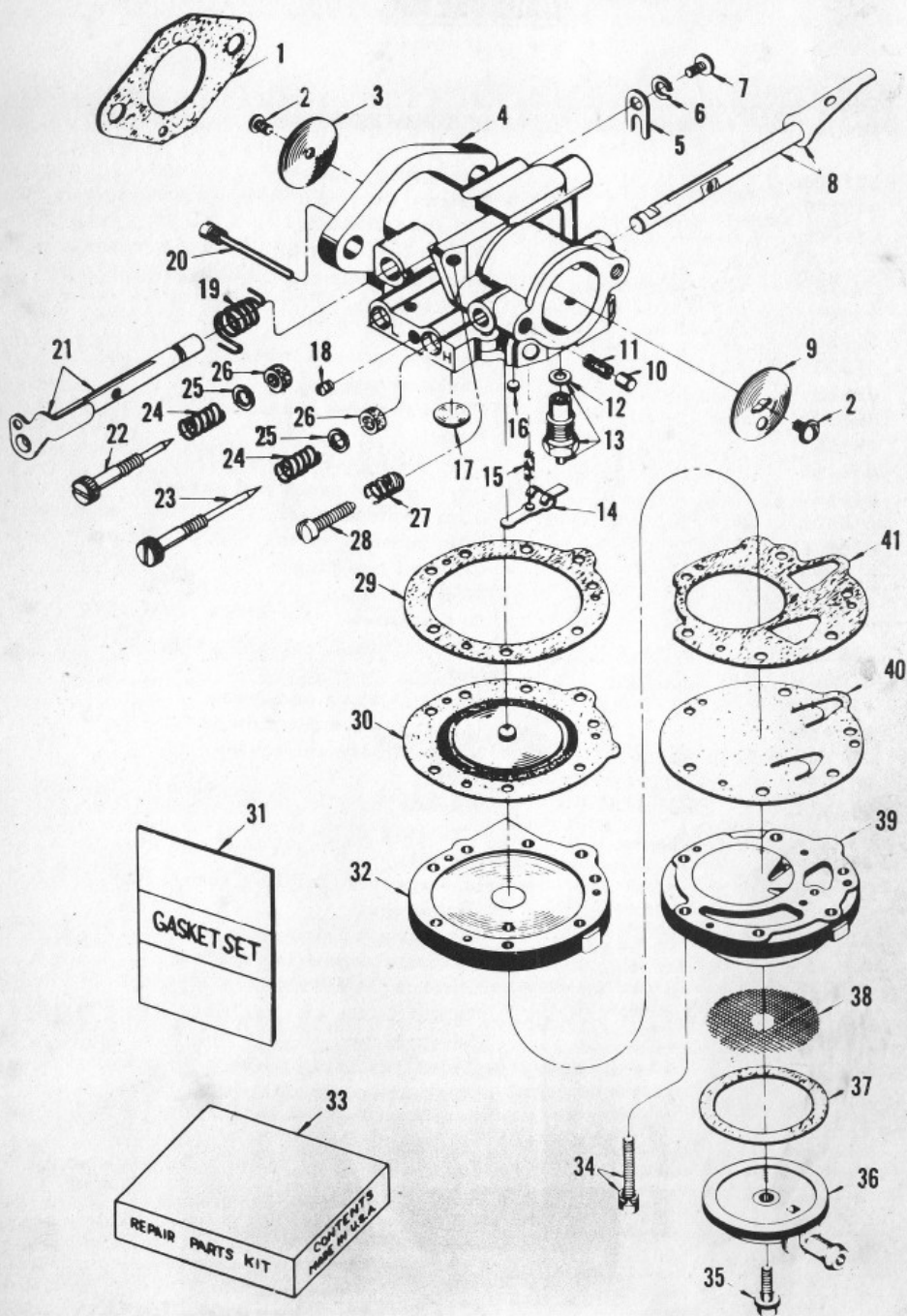


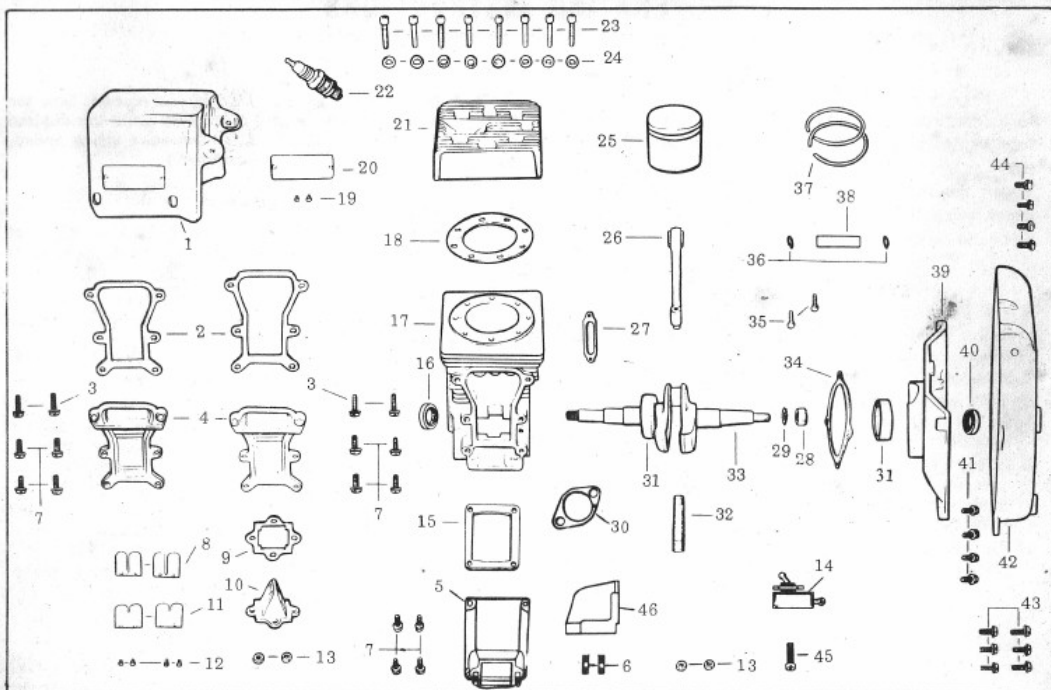
ILLUS. NO.	PART NO.	PRICE	QTY.	DESCRIPTION
1001	30907	3. 11.	1	Ground lead
1002	11785	3. 11.	1	Terminal
1003	13304	2. 1.	1	Cover
1004	13305	1. 6.	1	Cover gasket
1005	Y13294	9. 5. 6.	1	Flywheel
1006	11024	1. 6.	1	Cover spring
1007	11092	2. 1.	1	Flywheel key
1008	X13299	1. 11. 0.	1	Condenser
1009	13301	13. 6.	1	Cam (See Below)
1010	X13343	1. 11. 11.	1	Breaker point set
1011	8854	1. 6.	1	Condenser clamp
1012	5411	9.	1	Clamp screw
1013	59001	9.	1	Fixed contact clamp screw
1014	13303	2. 1.	1	Coil wedge spring

ILLUS. NO.	PART NO.	PRICE	QTY.	DESCRIPTION
1015	11686	9.	1	Coil grounding screw
1016	X13313	7. 16. 9.	1	Coil (includes item 18)
1017				Not used.
1018	K750	6. 9.	1	Sparky
1019	X13346	11. 7. 1.	1	Stator plate includes: All items except 1, 3, 4, 5, 7, 9, 17 and 20.
1020	1/4-20x5/8	9.	3	Round head screw w/ext. tooth lockwasher
1021	11015	1. 6.	1	Connection stud nut
1022	M90X	9.	1	Lockwasher
1023	13309	1. 6.	1	Connection stud insulator
1024	13312	1. 6.	1	Connection stud
1025	6318	9.	1	Cam wiper felt

CARBURETOR

ILLUS. NO.	PART NO.	PRICE	QTY.	DESCRIPTION
1	2775906-3	1 5	1	Carburetor gasket
2	010280	2 3	2	* Screw
3	012089	2 3	1	Throttle shutter
4				Order 229061 (HL122A) carburetor complete
5	09678	3 4	1	Throttle shaft clip
6	0992		1	Lockwasher
7	01974		1	Screw
8	012093	1 5 7	1	Choke shaft and lever
9	09626	5 0	1	Choke shutter
10	05454	1 6	1	Choke friction pin
11	08805		1	Friction pin spring
12	010165		1	Inlet seat gasket
13	010580	1 3 7	1	* Inlet needle, seat and gasket
14	010513	4 5	1	* Inlet control lever
15	010578	2 1	1	* Inlet tension spring
16	010588	19 3	1	* Channel cup plug
17	02531		1	Welch plug
18	02232	1 6	1	Drain screw
19	010775	3 6	1	* Throttle shaft return spring
20	010581	7 9	1	* Control lever pinion screw
21	012091	9 6	1	Throttle shaft and lever
22	011498	9 6	1	* Idle adjustment screw
23	011718	16 5	1	* Main adjustment screw
24	08793	1 6	2	Spring
25	011428		2	Washer
26	011401	1 6	1	Seal ring
27	0788	1 6	1	* Spring
28	05095	1 6	1	* Idle speed regulating screw
29	012475	1 11 0	1	* Diaphragm
30	012473	3 6	1	Diaphragm cover gasket
31	GS-155	12 9	1	* Gasket and packing set
32	010526	16 10	1	Diaphragm cover
33	RK-445	6 11 7	1	Repair parts kit, includes items marked with *
34	010098	1 6	6	Body screw
35	010571	5 6	1	* Cover retaining screw
36	010527	8 3	1	Strainer cover
37	010529	1 6	1	Strainer cover gasket
38	010530	4 3	1	* Strainer screen
39	010525	1 6 3	1	Fuel pump body
40	012708	7 6	1	* Fuel pump diaphragm
41	010880	3 6	1	Fuel pump gasket
	A2770589	4 10	1	Throttle shaft arm (not shown)
	229061	18 14 6	1	Carburetor complete (HL122A) not shown





POWER HEAD

ILLUS. NO.	PART NO.	PRICE	QTY.	DESCRIPTION	ILLUS. NO.	PART NO.	PRICE	QTY.	DESCRIPTION
2001	175648	1. 2. 3.	1	Cylinder cover	2025	174015	4. 15. 11.	1	Piston
2002	175223	2. 1.	2	Transfer port cover gasket	2026	2A175016	10. 1. 9.	1	Connecting rod, includes: Cap, cap screws and bearing
2003	1/4-20x7/8	9.	4	Pan head screw w/spring lockwasher	2027	175279	2. 1.	1	Cylinder exhaust gasket
2004	175222	19. 3.	1	Transfer port cover	2028	7/16-20	9.	2	L. H. Hex nut
2005	A175157	1. 4. 5.	1	Carburetor manifold w/studs	2029	8051	9.	2	Ext. tooth lockwasher, type "A"
2006	27209	1. 6.	2	Carburetor stud	2030				Not used
2007	1/4-20x3/4	9.	12	Pan head screw w/spring lockwasher	2031	127910-1	3. 7. 6.	2	Ball bearing
2008	31160-1	2. 1.	2	Reed	2032	A175228	12. 2.	1	Crankpin roller set
2009	31168	1. 6.	1	Carburetor manifold gasket	2033	174018	11. 8. 9.	1	Crankshaft (without ball bearing)
2010	A31158-1	2. 15. 5.	1	Reed plate, includes: Reeds reed stops and screws	2034	175277	1. 6.	1	Bearing cage gasket
2011	31161	1. 6.	2	Reed stop	2035	901634	2. 1.	2	Connecting rod cap screw
2012	6-32x1/4	9	4	Round head screw w/spring lockwasher	2036	31410	1. 6.	2	Retaining ring
2013	1/4-20	9.	2	Hex nut	2037	A174260	18. 6.	1	Piston ring set
2014	175150	16. 10.	1	Crankcase cover	2038	174017	8. 7.	1	Piston pin
2015	175148	1. 6.	1	Crankcase cover gasket	2039	A175038-1	6. 15. 0.	1	Support plate, Includes: Seal and ball bearing
2016	31146	12. 9.	1	Seal, drive end	2040	2770146	12. 9.	1	Seal, magneto end
2017	A174010	18. 17. 1.	1	Cylinder w/seal	2041	1/4 20x11/16	9.	4	Hex slotted head screw w/spring lockwasher
2018	174529-062	4. 11.	1	Head gasket	2042	175596-1	3. 1. 3.	1	Fan housing
2019	4x1/4	9.	2	Round head sheet metal screw type "A"	2043	1/4-20x1/2	9.	6	Pan head screw w/spring lockwasher
2020	A27395-2	2. 1.	1	Identification plate w/screws	2044	1/4-20x5/8	9.	4	Pan head screw w/spring lockwasher
2021	174518	2. 13. 3.	1	Cylinder head	G610		14. 3.	1	Gasket set (not shown)
2022	L-4J	7. 6.	1	Spark plug					
2023	1/4-20x1/16	9.	8	Socket head cap screw					
2024	8026	9.	8	Plain washer					

OPERATING INSTRUCTIONS

FUEL MIXTURE

In a separate, clean, container, thoroughly mix three-fourths (¾) pint of BP Energol Two Stroke oil with every gallon of BP regular motor spirit.

Strain the fuel mixture through a fine mesh screen when filling the fuel tank to remove any dirt or water from the mixing can.

STARTING PROCEDURE

1. Fill fuel tank with fuel prepared as outlined above. Wipe up all spilled regular motor spirit.
2. Open up fuel shut-off valve.
3. Move choke to closed position.
4. Turn ignition switch "ON". When starting engine for the first time, perform steps 1 and 2 under "Carburetor Adjustment".
5. To facilitate starting, crank engine part way through compression to bleed off some compression, then crank with quick, short pulls. When engine starts, move choke to open position.
6. Perform the steps outlined under "Carburetor Adjustment," if necessary.

TO STOP ENGINE

Move the ignition toggle switch to the "OFF" position to stop engine by shorting the magneto to ground. Engines not equipped with a toggle switch will have a shorting contact or button, which, when depressed, will short the spark plug or magneto to ground.

CARBURETOR ADJUSTMENT

1. Turn both adjustment needles clockwise until completely closed. CAUTION: Do not force needles tightly closed as the seats will be damaged.
2. Open both needles by turning counter-clockwise 1-3/4 turns. This will be a rich setting and operation under load will determine the best setting.
3. Start engine as described under "Starting Procedure" and allow it to warm up. Adjust the idle needle first and accelerate to approximately 6000 R.P.M.

If the engine bogged down and accelerated slowly, turn the idle needle clockwise until performance is acceptable.

If the engine stalled on acceleration, turn the idle needle counter-clockwise until performance is satisfactory. The average idle needle adjustment is 1 turn open.

4. Adjust the high speed needle next. Turn the high speed needle clockwise until four-cycling stops while engine is under load. DO NOT go any finer on the high speed adjustment as piston seizure can occur at high speed. The average high speed needle adjustment is one turn open.

5. If the engine runs too fast at idle speed, turn the idle stop screw counter-clockwise until the desired idling speed is obtained. To increase idling speed, turn the idle stop screw clockwise.

MAGNETO

1. Breaker point gap must be maintained at .015. Set points with cam follower at index mark on breaker cam.
2. If the magneto stator plate is loosened or removed for any reason, the timing and breaker point adjustment must be re-checked.
 - (a) Place stator plate in position and install hold-down screws. Do not tighten screws.
 - (b) Turn stator plate as far as possible in the direction of the flywheel rotation. This will be approximately 22° BTDC in the full retard position. Do not advance the timing beyond this point.

Correct breaker point adjustment is important as the timing will automatically be advanced if the breaker point setting is greater than .015, or retarded if less than .015. Tighten stator hold-down screws securely.

SPARK PLUG

Check and clean spark plugs regularly. Set spark plug gap at .030. Spark plugs that can be used in this engine are Champion L4J and L4, and AC AC 42FF.

AIR CLEANER

Under ordinary operating conditions, the air cleaner should be cleaned daily. Under extremely dirty conditions, more frequent cleaning is absolutely necessary. The repair of an engine damaged by dirt is not covered by warranty. The metal-maze type of air cleaner element should be oiled and allowed to drain before reinstalling.

STORING ENGINE

The following steps should be taken to prepare your engine for storage:

1. Close fuel shut-off valve.
2. Do not run engine to remove the fuel left in the carburetor. Drain the carburetor by removing the fuel strainer cover.
3. Remove the spark plug and pour ¼ cup of BP Outboard storage oil into the cylinder. Replace the spark plug.
4. Crank engine over once or twice to circulate the oil.
5. If the engine is to be stored in an extremely damp area, remove the crankcase cover and lubricate the upper and lower main bearings in both ends of the connecting rod.

CHECK LIST

TROUBLE

CAUSE

1. ENGINE FAILS TO START

No fuel in tank or shut off valve closed.
 Fuel line or screen clogged.
 Flooded. (Close high speed needle and crank until engine starts, then open needle 1-1/2 turns).
 Spark plug fouled.
 Breaker points out of adjustment (Reset to .015 gap.)

2. ENGINE HARD TO START

Water in fuel or stale fuel mixture.
 Too much oil in fuel mixture.
 Engine over or under choked.
 Carburetor out of adjustment.
 (See "Adjustments" on page 7).
 Gasket leaks.
 Broken reed.
 Breaker point out of adjustment. (Reset to .015 gap.)
 Seal leaks.

3. ENGINE MISSES

Dirt in fuel system.
 Carburetor out of adjustment.
 Spark plug fouled.
 Breaker points dirty.

4. ENGINE LACKS POWER

Air cleaner clogged.
 Carburetor out of adjustment.
 Incorrect spark plug.
 Poor compression.

5. ENGINE OVERHEATS

Insufficient oil in fuel.
 Carburetor adjustment too lean.
 Incorrect spark plug.

6. ENGINE NOISY OR KNOCKING

Loose flywheel.
 Incorrect spark plug heat range.
 Worn bearings.

7. ENGINE STALLS UNDER LOAD

Carburetor adjustment too lean.
 Fuel pump not working properly (worn diaphragm.)
 Fuel line restricted or tank vent closed.

8. POOR ACCELERATION

Carburetor out of adjustment.
 Chipped reeds.
 Timing too far advanced.
 Leaking gaskets.
 Exhaust restriction.

9. POOR HIGH SPEED PERFORMANCE

Carburetor out of adjustment.
 Low compression (check for broken or worn rings or leaky head gasket)
 Pre ignition (to check, turn ignition switch off. If engine continues to run, check the following:
 1. Dirty or incorrect spark plug.
 2. Excessive carbon or foreign matter in combustion chamber.
 3. Carburetor adjustment too lean.
 4. Excessive back pressure from muffler.

WARRANTY

We guarantee every West Bend engine to be free from defects in material and workmanship under normal use and service for a period of ninety (90) days from date of sale to the original purchaser.

Our obligation under this warranty provides for repair or replacement by any authorised West Bend Central Service Distributor, Service Distributor, or Service Dealer, of any part or parts as shall appear upon inspection by the manufacturer, to have been defective in material or workmanship. This warranty shall not apply to any engine which has been repaired or altered outside our factory or authorised service outlets.

This warranty shall apply if the engine is given reasonable care under normal use and service. It shall not apply to any engine which has been subjected to accident or modification, resulting in increased revolutions.

This warranty is in lieu of all other warranties, either expressed or implied, and we do not authorise any person or representative to make any other warranty or to assume for us any liability in connection with the sale of our engines other than those contained herein.

USE ONLY



ENERGOL TWO STROKE OIL

AND BP ENERGOL CHAIN OIL IN THIS SAW



ENERGOL

MOTOR OILS GEAR OILS CHAIN OILS

BP Energol Two Stroke Oil and BP Regular Motor Spirit together with BP Energol Chain Oil are exclusively recommended for Whitehead Chain Saw Model 119.

Other high quality products especially developed for "the man on the land" are BP Energol Tractor Oil Universal and BP Energrease L2.

For further information on these products or BP Energol products call at your nearest BP Agent or write to BP Australia Ltd. — Branch Offices in all states.

WHITEHEAD