

The Cox Babe Bee .049 engine is the ideal choice for both control line and free flight model planes. These features make it an outstanding value:

- Snap starter system—engine will not run backwards!
- Metal fuel tank with safety vent overflow
- . Sturdy radial mounting
- Needle valve located at rear of tank
- Redesigned cylinder porting—for maximum power with Cox muffler (optional)

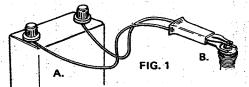
NOTES:

- A. The fuel pick-up tube inside the tank is positioned (at factory) for control line flying. For free flight flying, tank must be removed from engine and end of pick-up tube repositioned to bottom of tank. If this tube is located in wrong position, all the fuel will not be used and engine will stop prematurely.
- B. When adjusting engine speed, allow for a short delay between movement of needle valve and change in engine speed.
- C. Using fuel with less than 5% castor oil will void warranty. Always use Cox Super Power Fuel or other high quality fuel.
- D. You will need a 1½ volt battery, a glow head clip, Cox Super Power fuel, and a filler hose to start your engine. These items are all available in the COX 400 or 990 Accessory kits.

PREPARATION FOR RUNNING

- Mount engine in plane or on board. Never hold engine in hand or vise.
- Obtain a 1½ volt Cox dry cell battery or equivalent. Never use a higher voltage battery or the glow head may burn out.

Connect Cox glow head clip wires to battery as shown in Figure 1A.



 Install propeller on en shaft. Flat side of propeller should face . Tighten propeller screw securely.

CAUTION

A propeller which has been damaged with nicks, chips or cracks, or one which has been altered in any way can break apart during operation of the engine and causing serious injury to you and others.

- Inspect propeller before each use.
- Do not alter, modify or customize your propeller.
- Discard and replace nicked, chipped, cracked or altered products.
- Use only propellers approved for use with your engine.

STARTING ENGINE

- Close needle valve (turn clockwise). Do not force or overtighten valve. After closing, open valve (turn counterclockwise) 3 turns.
- Fill fuel tank. Fuel will flow from overflow on top of tank when tank is full. Wipe any excess fuel from engine and tank.
- Prime engine. Close exhaust ports by rotating crankshaft until piston blocks ports. Squirt several drops of fuel into exhaust ports. Flip propeller over 3 or 4 times to work fuel into engine.
- Connect glow head clip to glow head. Bottom clip should rest on top of glow head. See Figure 18.
- Start engine. Wind propeller backwards (clockwise) until spring hook catches on notch in snap starter cam. After cam is engaged, wind propeller backwards one full turn. (To prevent damage to starter spring, never wind propeller more than one turn.) Release propeller, engine should start.

NOTE: If, after a few attempts, the engine does not start, open needle valve another ½ turn, reprime, and repeat starting procedure. If engine still won't start, refer to engine trouble-shooting section.

6. Slowly tighten needle valve (clockwise) until engine is running at top speed. At top speed, engine should produce a shrill whine. After engine has reached top speed, loosen needle valve approximately ½ turn, or until engine runs with a "crackling," or "burbling," sound. Remove glow head clip and let engine run until fuel tank runs dry.

Restart and repeat procedure until engine has burned a minimum of 3 tanks of fuel.

- Restart engine. Tighten needle valve until engine is running at top speed. Remove glow head clip. If engine holds top RPM, it is broken in.
- If engine is mounted in place, tip nose of plane up to 45 degree angle. If engine speed changes readjust needle valve.

ENGINE CARE

Cleaning. Engine may be taken apart for cleaning or replacement of parts. Refer to diagram with "Parts List" for position of engine parts.

Disassemble and clean engine whenever it is

Always disassemt b clean engine after crash or whenever you sub- رائل داد that dirt may have gotten into parts. Dirt in engine will drastically shorten engine life. dirty.Wash and arts before reassembly

Glow Head. Replace burned out glow head

cool glow head, pour fuel over head. Never attempt to remove hot glow head. A hot glow head will stick, and forced removal may damage cylinder. To

Use both wrenches when removing glow head. The top fin on the cylinder has two flats. Insert one wrench over these flats and hold in place while using other wrench to remove the glow

When installing glow head make sure it is tight!

Storage. Before storing, run engine until fuel tank is dry. Lubricant in fuel thickens upon exposure to air and may clog parts if allowed to remain in

Oil engine with light oil such as SAE 10, 3-IN-ONE oil, or sewing machine oil, then wrap in plastic bag or clean cloth to protect it from dust and dirt

WARNING

USE OF THE FOLLOWING EQUIPMENT CAN DAMAGE YOUR ENGINE AND WILL VOID YOUR WARRANTY!

- ELECTRICAL STARTERS
- DIESEL CONVERSION KITS
- SHAVED OR EXTREMELY
 HIGH COMPRESSION HEADS

VARRANTY

on back page are NOT WARRANTED since they normally require anty service, you may contact Cox at the address given beriodic replacement. Should your engine require waror 90 days from the date of purchase. GLOW HEADS Your Cox engine is fully warranted against factory defect

FACTORY REPAIR SERVICE

parts. Complete overhaul, new engine performance guaranteed: \$12.25 These prices include parts. viinor repair, examination, or adjustments - \$4.00 plus

CUSTOMER SERVICE

AM to 4:30 PM Pacific Time, Monday through Friday please contact our Customer Service Department at 1-800-451-0339. Customer Service hours are from 8:00 For any questions or service regarding any Cox products

REPLACEMENT PARTS

require replacement during the life of this product. We have also included an exploded assembly drawing which identifies all replacement items available. We have listed those items which are most likely to

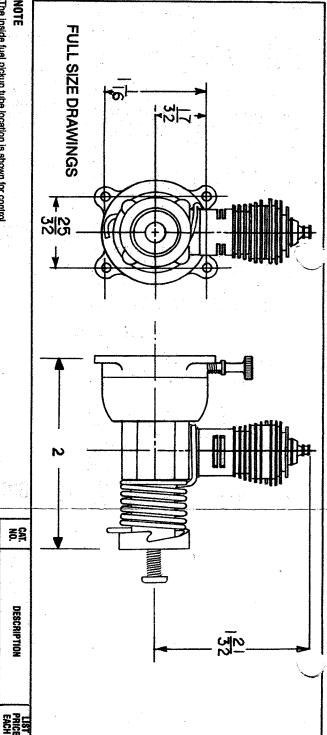
ncluding the following postage and handling charges: order made payable to Cox Hobbies, for the full amount or MasterCard. For a credit card order please give the Ordering Instructions: You may order parts from Cox by tion date. For other orders please send check or money telephone or mail. Orders may be charged to your Vise ollowing information. Name, card number and expira-

PRICE AND DESIGN OF PARTS SUBJECT CHANGE WITHOUT NOTICE. ಠ

Calif. residents only add state sales tax. No C.O.D. orders accepted. Telephone orders

All international orders \$5.00 additional.

\$30.01 and up



NOTE

The inside fuel pickup tube location is shown for control line flying. The end of this tube must be relocated to the bottom of the tank for free flight or RVC flying.

325 333

3.00

3

1.35

Snap starter, R.H. Glow head & gasket

Crankcase, crankshaft & drive plate

assembly

4.45

Tank front & back, tube, spring, &

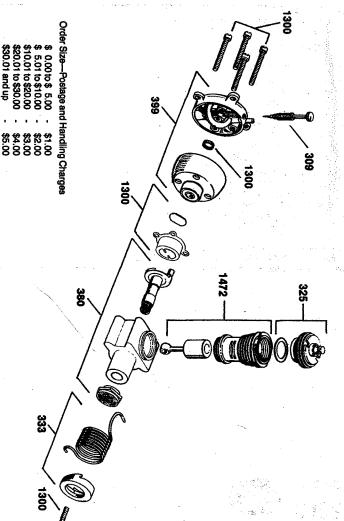
venturi gasket, reed, retainer

8.90

909

Needle valve & spring

DESCRIPTION



RECOMMENDED PROPELLERS

1472

Cylinder, piston & rod

5,00

2.55

venturi gasket)

Overhaul kit (reed, retainer, gasket

screw set, spinner, prop screw &

1.25	5" Dia. × 3" Pitch (3 bladed)	994
1.25	6" Dia. ×3" Pitch	862
1.25	5" Dia.×3" Pitch	858
PRICE EACH	DESCRIPTION	NO.

ACCESSORIES

	2.50	Piston/rod reset tool & holder	1796
•	1.10	Wrench	1530
不	1.75	Glow plug clip with wires	7556
	4.50	Muffler assembly	2630
	LIST PRICE EACH	DESCRIPTION	NO.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FOR QUESTIONS REGARDING YOUR COX PRODUCTS

CALL THE COX COURTESY LINE TOLL FREE 800/451-0339