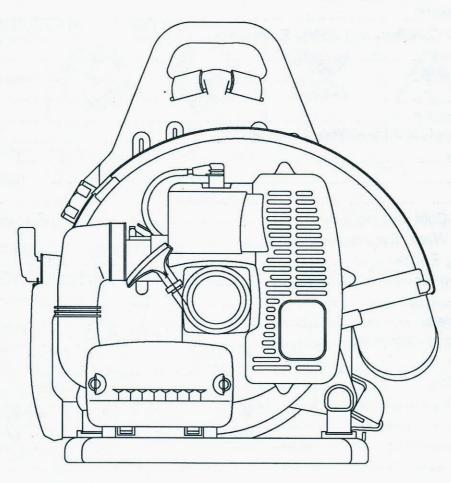
Power Blower Operator's Manual

MODEL: TB-70





WARNING



Read rules for safe operation and all instructions carefully. We provide this Operator's Manual which must be read and understood for proper and safe operation.

INTRODUCTION

The Back-Pack Blower model EB-650 was designed and manufactured to provide long life and on-the-job-dependability. Read and understand this manual. You will find it easy to use and full of helpful operating tips and SAFETY messages.

THE OPERATOR'S MANUAL

Contains specifications and information for operation, starting, stopping, maintenance, storage and assembly specific to this product.

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Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

SAFETY

DECALS

Locate these safety decals on your unit. The complete unit illustration, found in the "DESCRIPTION" section, will help you locate them. Make sure the decals are legible and that you understand and follow the instructions on them. If a decal cannot be read, a new one can be ordered from your dealer. See PARTS ORDERING instructions for specific information.

GENERAL WARNING DECAL

(located on top of blower housing)



HOT DECAL (near muffler)



INTERNATIONAL SYMBOLS

Symbol Form/shape			.addatillar.		
Symbol description/ application	Read and understand Operator's	ears and head	Hot Surface	Safety/Alert	Finger Severing
	Manual	protection	a manual and	and the second second	- Charles and the

SAFETY INSTRUCTIONS PERSONAL CONDITION AND SAFETY EQUIPMENT

Power Blower users risk injury to themselves and others if the power blower is used improperly and or safety precautions are not followed. Proper clothing and safety gear must be worn when operating a blower.

physical condition--

Your judgment and physical dexterity may not be good;

if you are tired or sick,

if you are taking medication,

if you have taken alcohol or drugs.

Operate unit only if you are physically and mentally well.

Eye Protection--

Wear eye protection that meets ANSIZ87.1 or CE requirements whenever you operate the machine.

Hand Protection--

Wear no-slip, heavy duty work glove to grip on the blower handle. Gloves also reduce the transmission of machine vibration to your hands.

Breathing Protection--

Wear a face mask to protect against dust.

Hearing Protection--

We recommend wearing hearing

protection whenever unit is used.

Proper Clothing--

Wear coat guarding against poisons, durable clothing; Pants should have long legs, shirts with long sleeves.

DO NOT WEAR SHORTS.

DO NOT WEAR TIES, SCAR- VES, JEWELRY.

Wear sturdy work shoes with nonskid soles;

DO NOT OPERATE UNIT BARE FOOTED.

Keep long hair away from engine and blower intake. Retain hair with cap or net.

EQUIPMENT

Before operation a complete check of the unit must be performed:

Check unit for loose/missing nuts, bolts and screws. Tighten and/or replace as needed.

Inspect fuel lines, tank and area around carburetor for fuel leaks. DO NOT operate unit if leaks are found.

Keep exhaust area clear of flammable debris. Avoid contact during and immediately after operation.



SAFE OPERATION

Determine Operation Area---

Review area to be cleared. Look for potential hazards such as stones or metal objects.

Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 15m while the blower is in use.

Take wind conditions into account: avoid open doors and windows.

Provide all operators of this equipment with the Operator's Manual and instructions for safe operation.

Do not point the blowy pipe at people or animals.

Start unit on ground with throttle at idle. Check that blower pipe is not blocked by the ground or by any objects.

WARNING / DANGER

Do not operate this product indoors or in

inadequately ventilated areas. Engine

exhaust contains poisonous emissions

and can cause serious injury or death.

Keep A Firm Grip

Hold handle with fingers together encircling the handle.

Keep A Solid Stance

Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not work in odd positions or on ladders.

Do not perform Maintenance or Assembly procedures with engine running.

Noise Control

Follow local noise regulations on sound levels and hours of operations. Use only during appropriate hours.

Never use a higher speed setting then necessary to perform a task. The higher the engine speed the louder the blower noise. Be a good neighbor.

Avoid Hot Surfaces

During operation, the muffler or catalytic muffler and surrounding cover may become extremely hot. Avoid contact during and immediately after operation.

Always keep exhaust area clear of flammable debris.Allow the engine and muffler to completely cool before performing any maintenance activity.



ASSEMBLY

SPECIFICATIONS

MODLE	TB70			
Length	465mm			
Width	365mm			
Height	525mm			
Net Weight	11kg			
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine			
Carburetor	Diaphragm			
Ignition System	Flywheel Magneto, capacitor discharge ignition type			
Spark plug	L8RTC Gap (0.6~0.7) mm			
Exhaust System	Spark Arrestor Muffler			
Fuel	Mixed (Gasoline and Two-stroke Oil)			
Oil	30: 1 High Performance, two-stroke air			
Idle Speed	(250 0±250) r/min			
Wide Open Throttle Speed	(6800±150) r/min			
Displacement	63.3cc (3.68 cu.in.)			
Bore	48.0mm (1.89in)			
Stroke	35.0mm (1.38in.)			

WARNING A DANGER

Never perform maintenance or assembly procedures with engine running or serious personal injury may result.

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INSTALL BLOWER PIPES/STICK HANDLE

1.Assemble straight pipe with swivel (D) flexible pipe (C).

2.Assemble flexible pipe (C) to elbow (A) on blower.

3.Assemble clamps(B)onto both ends of flexible pipe (C) and tighten.

4.Loosen wing nut (1) completely and expand open, stick handle clamp (J).

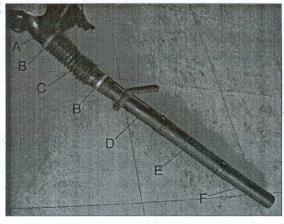
5.Align notches (H) in handle clamp with. pipe pegs (G) stick handle should be angled away from operator.

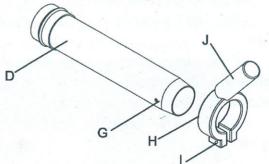
6.Slide stick handle onto pipe with swivel (D).

7.Position stick handle for comfortable operation and tighten wing nut (1).

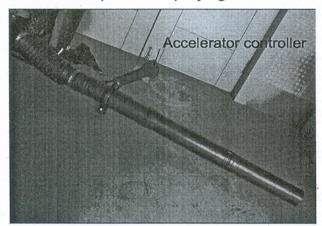
8.Assemble straight pipe (E) to pipe with swivel (D) ,turning straight pipe counter-clockwise to lock in place.

9.Assemble straight pipe(F)to straight pipe (E) turning





10. The other king of install to is shown as diagram below. The accelerator controller is putted in spraying a tube



PRE-OPERATION FUEL

Fuel Requirements

Use only fresh ,clean fuel Mix all fuels with premium 2-cycle engine oil at a gasoline/oil ratio of 30:1

Mixing Instructions

1.Fill an approved fuel container with half of the required amount of gasoline.

2.Add 2-stroke oil to gasoline.

3.Close container and shake to mix oil with gasoline.

4.Add remaining gasoline and remix.

5.Install fuel container cap and wipe any spilled fuel from container and surrounding area.

Handling Fuel

WARNING



Fuel is VERY flammable. Use extreme care when mixing, storing or handling or serious personal injury may result.

Use an approved fuel container.

DO NOT smoke near fuel.

DO NOT allow flames or sparks near fuel.

Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.

NEVER refuel a unit when the engine is HOT.

NEVER refuel a unit with the engine running.

DO NOT fill fuel tanks indoors. ALWAYS fill fuel tanks outdoors over bare ground.

Securely tighten fuel cap after refueling.

Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.

IMPORTANT

Spilled fuel is a leading cause of hydrocarbon emissions. Some states may require the use of automatic fuel shel-off containers to reduce fuel spillage. Contact your dealer for ordering information.

After Refueling-

Wipe any spilled fuel from the unit.

Move at least 3m from refueling location before starting.

After use-

DO NOT store a unit with fuel in its tank. Leaks can occur.

Return unused fuel to an approved fuel storage container.

Storage-

Fuel storage laws vary by locality. Contact your local government for the laws affecting your area. As a precaution, store fuel in an approved, air tight container.

Store in a well ventilated, unoccupied building, away from sparks and flames. Do not store fuel longer than 30 days.

IMPORTANT

Stored fuel ages. Do not mix more fuel than you expect to use in thirty days, ninety days when a fuel stabilizer is added.

Stored two-stroke fuel may separate. ALWAYS shake fuel container thoroughly before each use.

OPERATION

Recoil starter: Use short pulls-only

1/2-2/3 of rope length for starting.

Don't allow the rope to snap back in. Always hold the unit firmly.

STARTING COLD ENGINE

1. Move the switch to start detent position.

2. Close Choke-Cold Start.

Move choke up to "CLOSE" position. 3. Primer Buld-Prime.

OPERATION

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STARTING COLD ENGINE

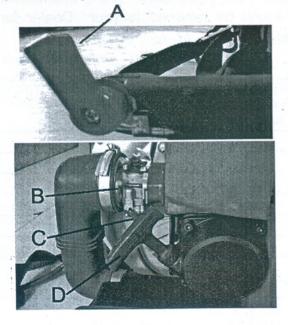
1. Close Choke-Cold Start. Move choke (B) up to "Cold Start" position.

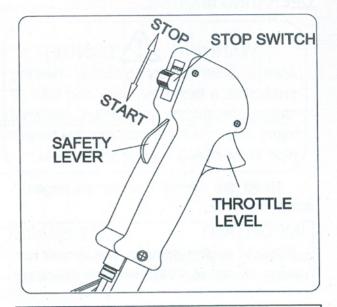
2. Primer Buld-Prime. Pump primer bulb (C) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.

3.Move throttle lever (A) to START/IDLE DETENT position. Or move the stop switch to "START" position. Then push choke lever inwards (excessive cranking with choke lever will cause flooding engine making it difficult to start.)

4.Pull recoil starter handle (D) until engine fires (5 or 6 pulls)

5.Move choke (B) to run position and if necessary, restart engine.





NOTE

If engine does not start after 5 pulls, use cold start procedures.

NOTE

Allow engine to warm up before use.

STARTING WARM ENGINE

1.Move throttle lever (A) to START/IDLE DETENT position. Or move the stop switch to "START" position. Then push choke lever inwards (excessive cranking with choke lever will cause flooding engine making it difficult to start.)

2.Pull recoil starter handle (D) and engine should start. Do not use choke (B).

NOTE

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If engine does not start after 5 pulls, use cold start procedures.

STOPPING ENGINE

1.Move the throttle lever (E) to the idling position and press the stop switch until the engine comes to a complete stop. Or move switch to STOP position.



OPERATING BLOWER

WARNING ADANGER Always wear safety glasses, hearing protection, a face filter mask and take all safety precautions or serious personal injury may result. Do not point the blower pipe in the direction of people or pets.

Read the Safety Section on pages 4 and 6 carefully.

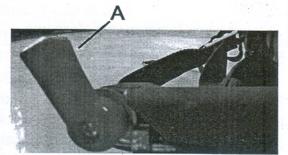
IMPORTANT

To avoid engine damage due to over rev -ving, do not bloke blower pipe opening.

1.Use only during appropriate hours.

2.Allow the engine to warm up at a fast idle for a few minutes.

3.Set engine speed with throttle lever (A) .



4.Use lower speed to blow dry leaves from walks, patios and drives.

5.Additional speed may be necessary to clean grass and leaves from a lawn or flower bed.

move gravel, dirt, snow, bottles or cans

6. Higher speed may be necessary to servicing. MAINTENANCE INTERVALS Component Maintenance Before Every Daily 3Month 6 Month Yearly

from a driveway, street, parking lot or stadium.

NOTE

Never use a higher speed setting than necessary to perform a task. Remember, the higher the engine speed, the louder the blower noise. Minimize dust by using blower at lower speeds and bv dampening material with water/mist when necessary. Keep debris on your property. Be Smart-be a good neighbor.

MAINTENANCE

Your blower is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your blower achieve that goad. If you are unsure or are not equipped with the necessary tools, you may want to take your unit to an Service Dealer for maintenance. To help you decide whether you want to DO-IT-YOURSELF or have the Dealer do it, each maintenance task has been graded. If task is not listed, see your Dealer for repairs.

SKILL LEVEL

Level1=Easy to do. Most required tools come with unit.

Level2=Moderate difficulty. Some specialized tools may be required.

Level3=Experience required. Specialized tools are required. We recommend the unit be returned to your Dealer for

/System	Procedure	Use	Refuel	Every 4 Hours	or 90 hours	or 270 hours	rearry
Air Filter	Inspect/Replace	I/C		I/C		R"	
Fuel Strainer	Inspect/Replace	i dina a			Ι		R
Fuel line	Inspect/Replace	I	Ι				R"
Carburetor	Inspect/Replace				A	I(1)	R(1)
Choke System	Inspect/Replace		Ι	Art and			
Cooling System	Inspect/Clean	I /C		I/C		and the second	
Cylinder Exhaust Port	Inspect/Clean/ Decarbon				I /C		

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Muffler Spark	Inspect/Clean/					I "		R"	a.
Arrestor	Decarbon		200				-		
Recoil Rope	Inspect/Clean	Ι					0160 2015	1"	1993
Fuel leaks	Inspect/Clean	Ι					R	1252	1
Spark Plug	Inspect/Clean					I /C"	1.4.4.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.95	145.27
Ignition System	Inspect/Clean		No Ma	ainten	ance rec	uired for co	oil and flyw	heel	
Screws/Nuts/Bo	Inspect/Clean/	Ι							
Its	Replace	-					, detra		

I=Inspect, C=Clean, R=Replace

IMPORTANT

Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

All recommendations to replace are based on finding damaged or wear during inspection.

(1) Replacement will be required for Commercial use after 600 hours. For Consumer use, cleaning every 6 months is required.

Cleaning includes rebuild kits.

AIR FILTER

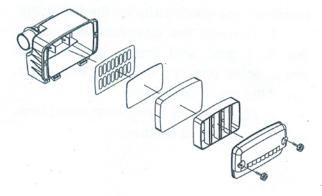
1. Close choke (Cold Start Position). This prevents dirt from entering the carburetor throat when the air filter is removed. Brush accumulated dirt from the air cleaner area.

 Remove the air cleaner cover.
Clean and inspect the element for damage If element is fuel soaked and very dirty, replace.

3. If element can be cleaned and reused, be certain it:

-still fits the cavity in the air cleaner cover.

-is installed with the original side out.



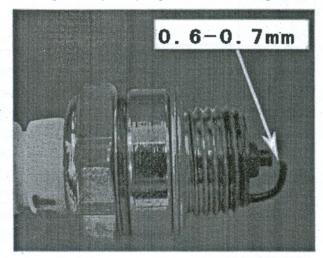
SPARK PLUG

Remove spark plug, and check for fouling, worn and rounded center electrode.

Clean the plug or replace with a new one. DO NOT sand blast to clean. Remaining sand will damage engine.

Adjust spark plug gap by bending outer electrode.

Tighten spark plug to(145-155)kg/cm.



TROUBLESHOOTING

Fuel vapors are extremely flammable and/or explosion. Never test for ignition spark near an open spark plug opening, other wise serious personal injury may result.

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Problem Engine-starts hard Engine-does not start			Remedy		
		Cause			
Engine	Fuel at No fuel at	Fuel strainer clogged	Clean		
Cranks	Carburetor carburetor	Fuel line clogged	Clean		
		Carburetor	See your dealer		
1	Fuel at No fuel at				
	cylinder cylinder	Carburetor	See your dealer		
Muffler		Fuel Mixture is too rich	Open choke		
	wet		Clean/replace air filter		
1 HARCH	with fuel		Adjust carburetor		
100			See your dealer		
1263	Spark at end No spark	Stop switch off	Turn switch on See your dealer		
	of plug wire at end of				
Wester	plug wire	Interlock switch	See your dealer		
1.18	No spark	Spark gap incorrect	Adjust 0.65mm		
Spark at at plug		Covered with carbon	Clean or replace		
+	plug	Fouled with fuel	Clean or replace		
		Spark plug defective	Replace plug		
Engine		Internal engine problem	See your dealer		
does no crank	ot		e-retaining poster in he		
Engine	Dies or accelerates poorly	Air filter dirty	Clean or replace		
runs		Fuel filter dirty	Replace		
		Fuel vent plugged Spark	Replace		
		plug	Clean and		
		Carburetor	adjust/replace		
1		Cooling system plugged	Adjust		
		Exhaust port/spark	Clean		
		arrestor screen plugged	Clean		
Engine	Blower does not work,	Blower Pipe clogged,	Unclog		
Runs	is weak or uneven	loose or damaged	Tighten		
properly			Replace		

STORAGE

WARNING DANGER During operation the muffler or catalytic muffler and surrounding cover become hot. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

Long Term Storage (Over 30 Days) Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance which includes the following:

1. Remove the chemical tank, clean the dust gate and inside the chemical inside Store unit in a dry, dust free place, out of the reach of children.

2. Store unit in a dry, dust free place, out of the reach of children.

WARNING DANGER Do not store in enclosure where fuel fumes may accumulate or reach an open flame or spark.

3. Remove accumulation of grease, oil, dirt and debris from exterior of unit.

4. Perform all periodic lubrication and services that are required.

5. Tighten all screws and nuts.

6. Drain the fuel tank completely and pull the recoil starter handle several times to remove fuel from the carburetor.

7. Remove the spark plug and pour 7cc (1/4oz,1/2tablespoon) of fresh, clean 2-stroke engine oil into the cylinder through the spark plug hole.

A. Place a clean cloth over the spark plug hole.

B. Pull the recoil starter handle 2-3 times to distribute the oil inside the machine.

C. Observe the piston location through the spark plug hole. Pull the recoil handle slowly until the piston reaches the top of its travel and leave it there.

8.Install the spark plug (do not connect ignition cable).

9. Remove blowy pipe assembly from unit.