

OPERATOR'S MANUAL

BRUSHCUTTER

YM 415 FW

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EXPLANATION OF PICTORIALS

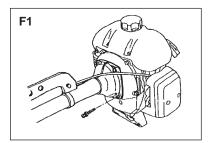
- (1) Read the owner's manual.
- (2) Wear helmet, eye and ear protection.
- (3) Warning / Attention
- (4) Keep all children, bystanders and helpers 15 meters away from the brushcutter.



For safe operation

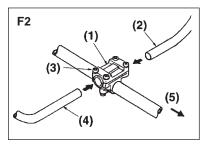
- Read this manual carefully until you completely understand and can follow all safety notes, precautions, and operating instructions before using of the unit.
- Do not operate this tool when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- 3. Always wear eye or face protection and hearing protection.
- Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by branches or moving parts of the unit. Secure hair so it is above shoulder length.
- Never start or run the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.
- Before starting the engine, inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.
- Be sure the cutting attachment guard is firmly attached in place.
- Fuel is highly flammable. Always keep open flames and sparks away from the unit and fuel depot. Do not smoke while refueling the unit or mixing fuel.
- When refueling the unit, make sure to stop the engine and allow it to cool down. Wipe spilled fuel completely from the unit. Move at least 3 meters away from fueling site before starting the engine.
- 10. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken grass.
- 11. Keep bystanders and animals at least 15 meters away from the operating point. If you are approached, immediately stop the engine.
- 12. Keep firm footholds and balance at all times. Do not use the unit where footing is unsteady or slippery.
- 13. Keep cutting attachment below waist level.
- 14. Keep all parts of your body away from rotating cutting attachment and hot surfaces.

- 15. Warn the operator of the danger of blade thrust (Kick back). Blade thrust may occur when the spinning blade contacts a solid object in the critical area. A dangerous reaction may occur causing the entire unit and operator to be thrust violently. This reaction is called Kick back. As a result, the operator can lose control of the unit which can cause serious or fatal injury. Kick back is more likely to occur in areas where it is difficult to see the material to be cut.
- 16. When inspecting or servicing the unit, make sure to stop the engine and disconnect the spark plug as necessary.
- 17. Cover the blade when transporting or storing the unit. Secure the unit before storage or transporting to prevent loss of fuel, damage or injury.
- 18. When replacing cutting attachment or other components, be sure to use the parts supplied or recommended by YANMAR S.P.
- 19. When the unit is turned off, make sure the cutting attachment has stopped before the unit is set down.
- 20. For units equipped with a clutch, be sure the cutting attachment stops turning when the engine idles.
- 21. Use only for tasks explained in the instruction handbook.
- Discard blades that are bent, warped, cracked, broken or damaged in any way.
- Instructions on stopping a coasting blade. A blade can injure while it continues to spin after the engine is stopped or throttle control is released.
- 24. Stop the engine and blade before removing material that is blocking or entangling the cutting attachment.
- 25. Use a sharp blade. A dull blade is more likely to snag and thrust. Replace the fastening nut according to the manufacturer's instruction.
- 26. Cut only material recommended by the manufacturer. Do not let the blade contact material it cannot cut, such as rocks, metal etc.
- 27. Always wear safety boots, additionally a helmet is required if there is a risk of contact with falling objects.



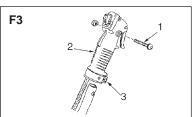
■ ENGINE

• Using attached 4 socket screws, secure the connection firmly with equal force. (F1)

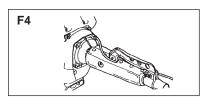


■ INSTALLING HANDLE

- 1. Loosen the 4 bolts on the handle bracket. (F2)
- 2. Insert the right handle (throttle lever is attached) and the left handle assembly into the bracket and retighten the bolts securely. (F2)
- (1) Handle bracket (2) Right handle (3) Bolt (4) Left handle (5) Engine side

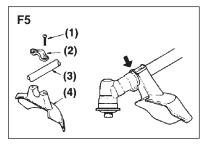


3. Remove the screw (F3-1) from the right grip (F3-2) and put the grip onto the right handle. Align the positioning holes and put the screw through them. Fasten the clamp. (F3-3)



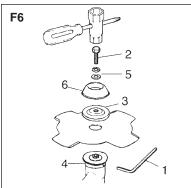
■ PROTECTOR

 Wrap the protector around the outer pipe as shown in the figure (F4), and fasten the hooks.



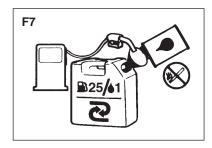
■ SAFETY GUARD

- Attach the safety guard to the gear case and fix it with the clamp and 2 bolts (M5 x 25) securely. (F5)
- (1) Bolt (2) Clamp (3) Main pipe (4) Safety guard



■ BLADE

- 1. Put the angled bar (F6-1) into the side holes of the inner holder (F6-4)and the gearcase.
- 2. Remove the blade bolt (F6-2, Lefthanded) and the outer holder (F6-3) from the gearshaft.
- 3. Put the blade onto the inner holder.
- 4. Put the outer holder onto the gearshaft making the recessed side face the blade.
- 5. Fasten the blade by the blade bolt with the washers (F6-5) and the bolt cover (F6-6).
- Detailed attachments and set up method will be shown in separate Thai language manual.



▲ WARNING

- Keep open flames away from the area where fuel is handled or stored.
- · Mix and store fuel only in an approved gasoline container.

Mix a regular grade gasoline (leaded or unleaded, alcohol-free) and a quality-proven motor oil for air cooled 2-cycle gasoline engine use.

Recommended mixing ratio:

<u>.</u>	
Condition	Gasoline : Oil
Up to 20 hours use	20 : 1
After 20 hours use	25 : 1

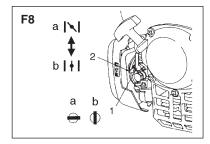
25 : 1 Mix Cha	art				
Gasoline (liters)	1	2	3	4	5
2-cycle oil (ml.)	40	80	120	160	200



Most engine troubles are caused, directly or indirectly, by the fuel used on the machine. Take special care not to mix a motor oil for 4-cycle engine use.

Use

F10



■ STARTING THE ENGINE

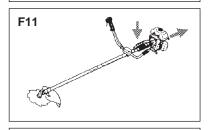


Take care that the cutting head will start rotating upon the engine starts.

- 1. Open the fuel tank cock. (F8-1-b)
- 2. Move the choke lever to the closed position. (F8-2-a)
- 3. Set the engine switch (F10-a) to the "I" position. Set the throttle lever to the start position. (F10, 1-2-3)
- 4. Place the unit on a flat, firm place. Keep the cutting head clear of everything around it.
- 5. While holding the unit firmly, pull out the starter rope quickly. (F11)
- 6. After the engine has started, open the choke gradually and allow the engine to warm up. Pull the throttle lever to unlock it.



- 1. Release the throttle lever .
- 2. Move the engine switch to the "O" position.

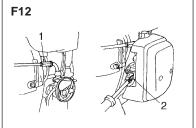


■ ADJUSTING THROTTLE CABLE

 The normal play is 1 or 2mm when measured at the carburetor side end. Readjust with the cable adjuster (F12-1) as required.

■ ADJUSTING IDLING SPEED

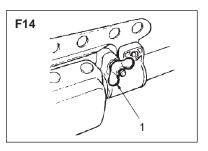
 It is normal that the engine keeps running without the blade rotation, when the throttle lever is released. When the engine speed is too high or too slow, readjust the idle set screw. (F12-2)





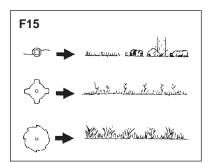
Cutting work

• By using the shoulder strap, hang the unit on your right side. Adjust the strap length so that the cutting head may become parallel to the ground. (F13)



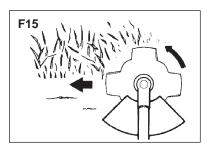
■ SWIVEL LOCK

- a) When the unit is not hung down with the harness, as in transportation, use the swivel lock to prevent the engine from roll down.
- b) To lock the swivel, thrn the wing nut (F14-1) clockwise.
- c) For normal operation, keep the wing nut loose.
- Choose a suitable recommended cutting attachment according to the object to be cut.
 (F15) Never use other cutting attachement not approved by YANMAR S.P.



■ WHEN USING A METAL BLADE

- 1. Check the bolt to fasten the blade and be sure the bolt has no fault, and no abrasion.
- Be sure that the blade and the holder have been fastened according to instruction and the blade turns smoothly without abnormal noise.
- The rotating parts fastened incorrectly may cause serious accident to the operator.

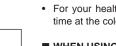


■ CUTTING METHOD

- (a) Use the front left side for cutting.
- (b) Guide the blade from your right to left with it tilted slightly to your left. (F16)
- (c) When mowing a wide area, start working from your left end to avoid interference of cut grass.
- (d) The blade may be seized by weeds if the engine speed is too low, or the blade cuts too deep into weeds. Adjust the engine speed and cutting depth according to the condition of object.

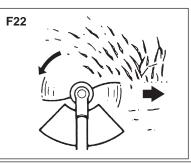


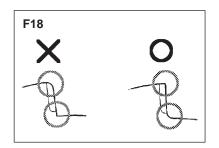
 For your health and to prevent the risk from vibration, refrain from working for a long time at the cold temperature.

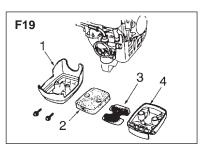


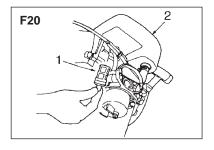
■ WHEN USING A NYLON LINE HEAD

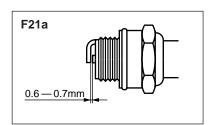
- Guide the head from your left to right to let the cut grass be thrown away from you. (F22)
- 2. Always do cutting with the engine running at full throttle.
- 3. Use only the tip of the oine for cutting, and allow it to trim at its own pace.

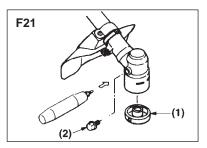












AWARNING

Before cleaning, inspecting, or repairing the unit, make sure that the engine has stopped and is cool.

■ BLADE

- Check the blade and the fasteners for looseness, cracking, or bending.
- · Check the cutting edges and reform with a flat file.

Point (F18):

- 1. Keep the end corner sharp.
- 2. Round the root of the edge.
- 3. Do not use water when using a grinder.

■ AIR CLEANER

 Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one. (F19)

(1) Cover (2) Element (3) Screen (4) Body



A clogged air filter may increase fuel consumption while cutting down the engine power. And operate the brushcutter without the air filter or with a deformed filter element will quickly ruin the engine.

■ FUEL FILTER

 Take the filter out of the fueling port using a small wire hook. Disconnect the filter assembly from the fuel pipe and unhook the retainer to disassemble it. Clean the components with gasoline. (F20)

(1) Strainer (2) Fuel tank



A clogged fuel filter may cause poor acceleration of the engine.

■ SPARK PLUG

- Starting failure and mis-firing are often caused by a fouled spark plug. Periodically clean the spark plug and replace with a new one as required. (F21a)
- REPLACEMENT PLUG IS A Champion CJ-6Y.

■ GEAR CASE

- Supply multi-purpose grease at every 25 hours of use.
- Remove the cutter holders to arrange for old grease to exit. (F21)

(1) Inner holder (2) Plug

■ MAINTENANCE BEFORE STORAGE

 Old fuel left in the carburetor may cause starting failure. When a series of operation finished, make sure to empty the fuel tank and drain the carburetor.



 Check all parts and the functions. If the failured or damaged parts have been found, replace them with new ones.

Specifications

Model name	
Engine model	G45L
Displacement	
Carburetor	Float
Ignition system	IC controlled flywheel magneto
Spark plug	
Fuel	Mixture (Gasoline 25 : 2-Cycle Oil 1)
Fuel tank capacity .	
Starter	
Clutch	
Reduction ratio	1.333
Cutter rotation	Counter-clockwise as viewed from operator
Overall dimension	L 1800mm W 630mm H 480mm
Dry weight	7.3kg

Limited warranty

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired at free of charge by YANMAR S.P. authorized dealer.

WARRANTY PERIOD: 6 months from the date of initial purchase.

IMPORTANT: The following cases are not covered by this warranty:

- (a) Any failure resulted from neglect of instructions for proper operation and maintenance of the product described in the operator's manual.
- (b) Any damage due to accidents, abuse, negligence, alteration, or use of any parts or accessories other than those specified by YANMAR S.P.
- (c) Any failure due to use of improper fuel.
- (d) Replacement of normally consumed parts: cutter blades, spark plugs, starter ropes, etc.
- (e) Regular maintenance and adjustments explained in the operator's manual.
- (f) Incidental or consequential damages.
- (g) Transportation charge for failed/repaired unit.

Nothing contained in this warranty affects the consumer's statutory rights.

[•] Specifications are subject to change without notice

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