

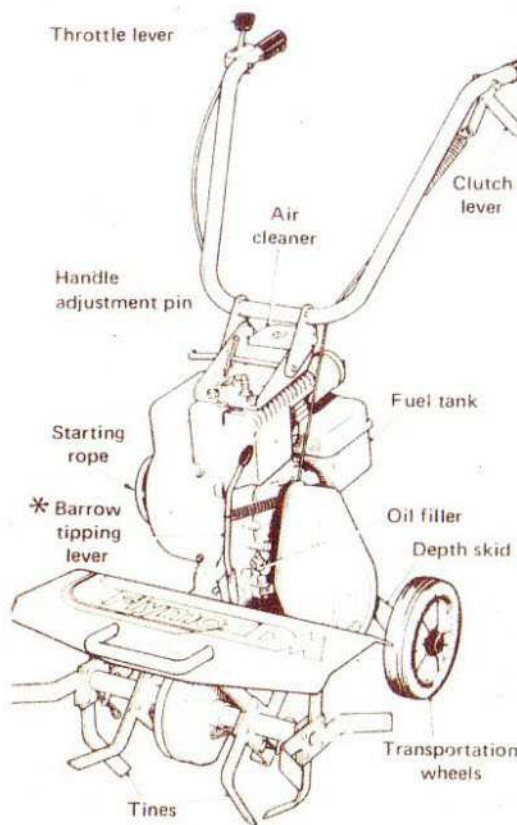
Manual For Flymo DM Petrol Cultivator Instruction Sheet (Manual) Part 1 of 2

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Flymo[®]

DM PETROL CULTIVATOR INSTRUCTION SHEET

5116337-01



* A barrow and drive wheels are available as accessories.

The policy of continuous improvement means that specifications may be altered without prior notice. "Flymo" is a Registered Trade Mark.

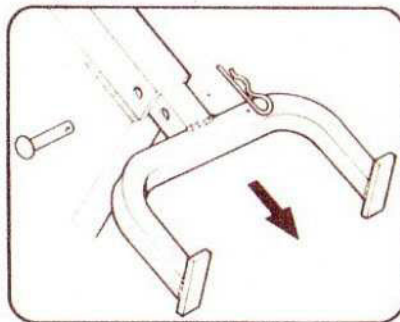
Preparation

OPERATING THE CLUTCH

The clutch is operated by the lever situated on the handle. To engage the drive to the tines depress the lever and release the lever to disengage the drive. The clutch assembly is already fitted at the factory for optimum use, hook the spring into the front hole of the lever checking that the jockey pulley is clear of the drive belt and that the spring tensions when the clutch lever is operated.

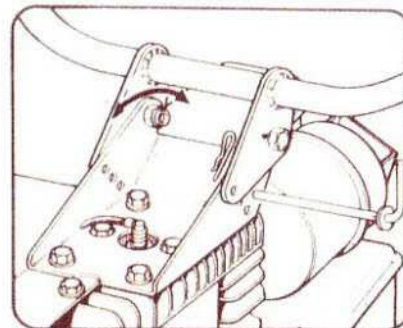
ADJUSTING THE DEPTH SKID

To alter the digging depth change the position of the skid assembly by removing the retaining clip and pin and select one of the positions provided (see tips on using your cultivator).

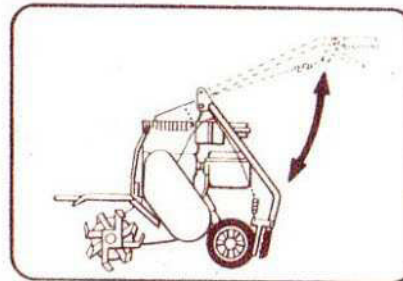


ADJUSTING THE HANDLE

This is achieved by selecting one of the three positions provided and locating in position with the pin and clip provided. No adjustment of the controls is necessary after changing the position of the handles.



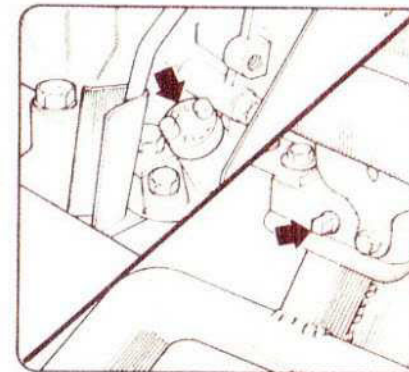
For storage or transportation the handles may be folded completely down behind the machine by removing the handle height adjustment pin and clip.



OIL AND PETROL

With your cultivator on level ground, remove oil filler cap and fill using Flymoil until sump is on the point of overflowing. Pour slowly. Always check the oil level before starting the engine and after every 5 hours of use. Add oil as necessary to keep the sump full. Change the oil after the first 5 hours operation, thereafter every 25 hours. Always change the oil while the engine is warm and ensure your cultivator is on level ground when doing so.

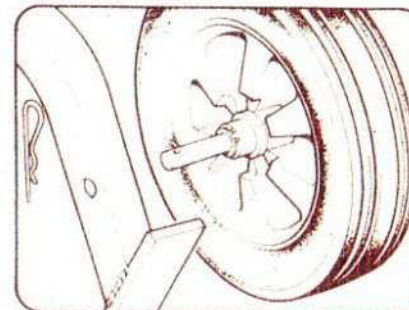
The oil may be drained through the drain plug situated as shown at the rear of the machine.



Use fresh 2 or 3 star petrol. Do not fill the tank when the engine is hot. To avoid introducing dirt into the fuel, wipe all grease and dirt from the petrol filler cap before unscrewing it. DO NOT MIX OIL WITH PETROL.

TRANSPORTATION WHEELS

For ease of transportation, a pair of wheels is provided. To remove these for digging, withdraw the clip and remove the wheels.

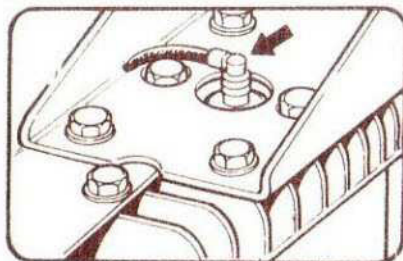


How to use your cultivator

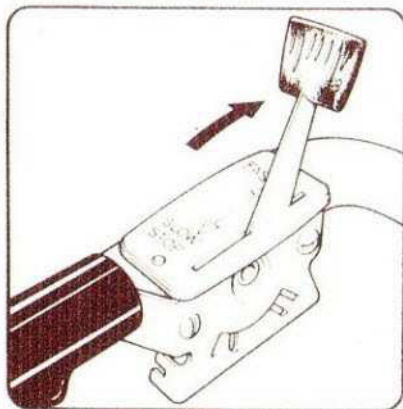
STARTING

1. Before starting the engine make sure you are not depressing the clutch lever.

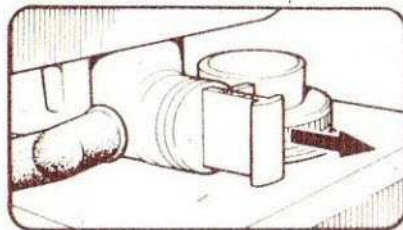
2. Connect spark plug lead.



3. Move the throttle lever to the position marked 'FAST'.



4. Pull out the choke control.



5. Pull the starting rope gently until you feel compression. Let the handle return slowly, then firmly pull the handle the full length and the engine should start, if not repeat this procedure. In case of flooding, move control lever to stop and pull the handle six times. Then move throttle lever to 'FAST' and re-start the engine.

6. Run the engine for about 15 seconds, at a slow speed then push in the choke control.

7. The speed of the engine is controlled by the throttle lever, try to avoid over-revving the engine as this is detrimental to the engine and shortens its life.

TEMPORARY STOPPING

To stop the engine, move the throttle lever to the stop position.

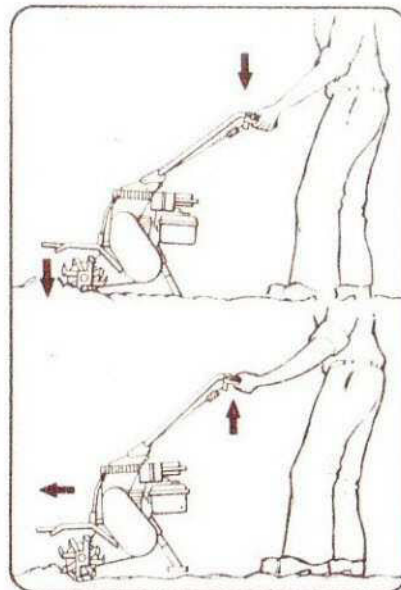
TIPS ON USING YOUR CULTIVATOR

1. It is advisable to clear the area to be dug, of large obstacles, rocks, rubbish, large weeds etc.

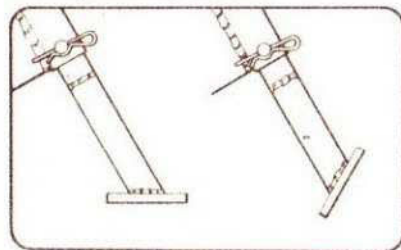
2. Make sure you are equipped with sensible heavy footwear with a firm grip.

3. Your cultivator will naturally provide the forward motion and the amount you press down on the handles will determine the depth of dig.

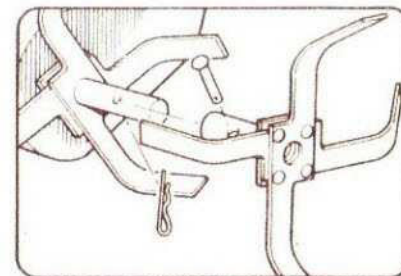
4. Normally your cultivator will go forward and dig down easily. Pressing the handles down gives a deeper dig while raising the handles makes the machine move forward.



5. Depending on the condition of your soil and the depth of your top soil, the skid can be used to control the depth of digging. To dig extra deep, remove the skid assembly, then turn it round so that the skids are pointing down into the ground. For an even deeper dig, position the skid assembly in the lowest position provided.



6. Generally a narrow tine width is best for deep rotary digging, while for shallow digging and general weed clearance, a greater width is more suitable. To dig deep, remove one tine from each side by removing the clips and pins.



7. To erase foot marks on previously cultivated ground and to leave a smooth surface, just reverse the direction of working i.e. walk backwards pulling the cultivator along.

8. The lowest engine speed you can obtain without stalling is best, high speeds only wear out the engine and yourself.

9. If the ground is hard you may find your cultivator tends to run away from you. Do not struggle against this but rather allow it to break up the surface then go over the area again.

AFTER COMPLETION OF USE

1. Stop the engine by moving the throttle lever to the stop position.

2. Remove the spark plug lead.

3. Clean leaves or other debris from around the engine.

4. Use a piece of wood to remove any soil adhering to the tines and wipe down the rest of the machine. A clean machine will always work better and last longer.



Safety Precautions

- Check often for damaged or loose parts.
- **Safe operating:** always be sure the cultivator is in a safe operating condition. Use only Flymo genuine replacement parts.
- **Rotating tines:** keep hands and feet well away from the vicinity of the tines.
- **Lifting and Carrying:** never pick up or carry the cultivator when the engine is running.

- **Footwear:** do not use the machine unless wearing heavy shoes with a good grip.
- **Children:** do not allow children under 16 or people unfamiliar with these instructions to use the cultivator.
- **By-standers:** do not use the machine when people or animals are in the working area.
- **Filling the fuel tank:** add the fuel before starting the engine. Avoid spilling petrol and do not fill the tank while the engine is hot, running or while you are smoking.



- **Instructions**
Know your controls. Read the Instructions carefully. Learn how to stop the engine quickly in any emergency.

- **Starting the engine:** start the engine carefully following the starting instructions.
- **Carbon Monoxide:** do not start or operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect.
- **Unattended cultivator:** stop the engine whenever you leave the machine.

- **Speed of engine:** do not over-speed the engine. Excessive speed is dangerous and shortens the life of the engine.
- **Engine overheating:** do not allow debris to collect in the slots between the engine cooling fins.
- **Storing:** allow the engine to cool down before storing the cultivator.
- Always switch off and disconnect the spark plug lead before carrying out adjustments or cleaning.

Maintenance of your cultivator

ON COMPLETION OF USE

1. Clean the machine, remove clinging soil from the tines and remove debris from around the engine, especially in the area of the cooling fins so that overheating is avoided. Also ensure the tines and tine shaft are kept free of wrapped round weeds etc.
2. Check that all nuts and bolts are tight and that the machine is in a safe working condition.

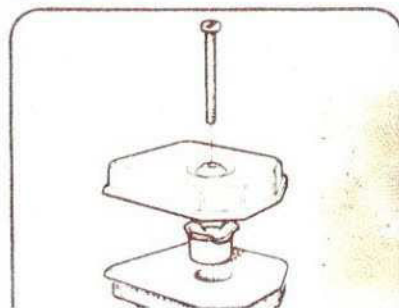
Periodically

1. Lubrication

Lubricate the throttle cable, clutch cable and pivot points and other moving parts using light oil. The chain case is sealed for life and needs

NO MAINTENANCE

b) Remove foam element from air cleaner body first noting configuration and wash out in paraffin (or liquid detergent and water) to remove dirt. Dry the foam element by wrapping and squeezing in a cloth. Soak element in clean engine oil and squeeze out excess.



The correct gap between the electrodes is 0.030" (0.75mm) and should be checked with a wire or feeler gauge after every 100 hours operation, and at the beginning of every season.

Carburettor Adjustments

Minor carburettor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. NOTE: Adjust carburettor with fuel tank half full of 2 or 3 star petrol.

1. Initial Adjustment:

Close needle valve (a) (turn clockwise) then open 1½ turns (turn counter-clockwise). This initial adjustment will permit the engine to be started and warmed up before making final adjustment.

FAULT FINDING HINTS

Difficult Starting

- Check that control lever is in FAST position and if necessary, the choke control is out.
- Ensure air vent in petrol tank cap is clear.
- Petrol may be stale (eg. a long time since the engine was used). Renew with fresh petrol.

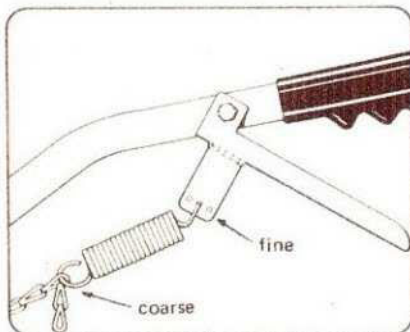
- Remove, clean and check the spark plug. Move the control lever to FAST. With the spark plug, attached to the spark plug lead, lie the plug on the engine. Do not touch lead or plug. Crank the engine when a spark should jump across the plug points. If there is no spark, clean or renew the spark plug.

Lack of Power

- Air filter may need cleaning.
- ENGINE REVS MAY BE TOO LOW

2. CLUTCH CABLE

Check that the jockey pulley is clear of the drive belt and that the spring tensions when the clutch lever is pulled. If the cable requires adjustment, this can be achieved in two ways. Coarse adjustment by engaging the spring in different links of the chain and fine adjustment by hooking the spring in a different hole in the clutch lever.



3. Air Filter

The engine should never be run without an air filter or if the air filter is dirty, as this will reduce the efficiency of the engine. It will also allow dirt to enter the engine and cause excessive internal wear. After every 25 hours of use or more frequently in dusty conditions - always follow this procedure:-

- a) Remove screw and detach air cleaner body.



Replace foam element in air cleaner body in exactly the same way as it was removed. Replace retaining screw.

4. Engine Sump

Check your oil level after every 5 hours use and add oil as necessary to keep the sump full. After the first 5 hours use and then after every 25 hours use, change the oil by draining via the drain plug and re-filling with Flymoil. Before draining, first warm the engine by running and wipe the filler and drain plugs to ensure dirt does not enter the engine.

5. Spark Plug

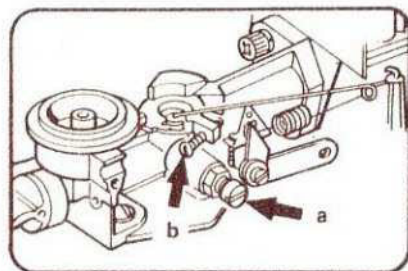
Use only Champion CJ8 or J8. An oily or carboned spark plug makes starting difficult, and decreases the efficiency of the engine. The spark plug should be removed for cleaning and adjusted periodically.

Caution: Blast-cleaning of spark plugs in machines which use abrasive grit is not recommended. Clean by scraping or wire-brushing and washing with a commercial solvent or petrol.

Never remove or replace the spark plug when the engine is hot - this could damage the cylinder head thread.

MOVE THROTTLE TO FAST POSITION

- a) Turn needle valve (a) clockwise until engine starts to lose speed (lean mixture).
- b) Slowly turn needle valve out anti-clockwise past the point of smoothest operation until engine just begins to run evenly (rich mixture).
- c) Turn needle valve back in clockwise very slowly till engine runs evenly.
- d) Final adjustment of the needle valve should be slightly to the rich side (turn anti-clockwise) of the mid-point.



3. Move throttle lever to SLOW. Turn idle adjusting screw (b) until a fast idle speed is obtained.

4. To check adjustment move throttle lever from SLOW to FAST speed. Engine should accelerate smoothly. If engine tends to stall or die out increase idle speed or re-adjust carburettor, usually to a slightly richer mixture.

Engine Overheating

- Check the flow of air over the cylinder. Remove all grass and dirt. If in doubt, consult your local dealer.

LAY UP CARE

If your machine is likely to be laid up for an extended period, then for trouble-free starting next time you use it, follow this procedure:

- All fuel should be removed from the fuel tank. Run the engine until it stops from lack of fuel. The small amount of fuel that remains in the tank should be removed by absorbing it with a clean dry cloth.
- While the engine is still warm drain oil from the crankcase and refill with fresh oil.
- Clean and re-oil the air filter.
- Remove spark plug lead and spark plug. Insert 2 or 3 teaspoonsful of oil into engine through spark plug hole and crank engine several times. Insert a long pencil into the spark plug hole until resistance is felt. Then slowly pull starting handle until pencil will not go into hole any further. In this position the magneto points are closed thus ensuring they are not affected by damp and its resulting corrosive action. Replace the spark plug but leave the lead disconnected.
- Thoroughly clean your cultivator.
- Store your cultivator in a dry, damp proof place, preferably indoors.

SERVICE

To obtain the best possible life and reliability from your Flymo cultivator, we recommend that it is serviced regularly by your local Flymo Service Dealer. He has the equipment, facilities, genuine replacement parts and factory trained personnel to advise you on the service requirements of your machine. Depending on the machine's use, they will recommend one of the various types of service which are designed to ensure the maximum economic service life of your machine.

GUARANTEE: If there is any Flymo part or parts found to be defective in materials and/or workmanship within two years of original purchase, except for the power unit (engine) which is one year from original purchase, Flymo Limited, via the authorised dealer, will effect the repair or replacement at no charge to the customer providing the fault is reported direct to the dealer. If there is any engine part or parts found to be defective in material and/or workmanship within one year of the original purchase, the engine manufacturer, via the authorised dealer, will effect the repair or replacement at no charge to the customer providing the fault is reported direct to the dealer. In all cases, if the machine is used commercially the guarantee period on all components is 90 days with the exception of Briggs & Stratton and Tecumseh engines, these being 1 year. The terms of the above guarantee are in addition to the "customers statutory rights".