

# SECTION 2 OPERATIONS

## Operations

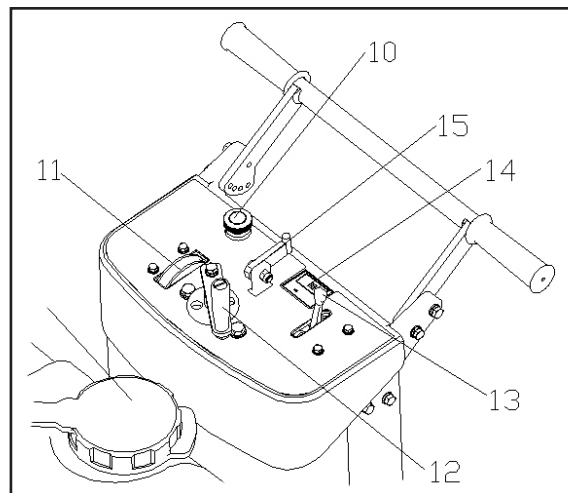
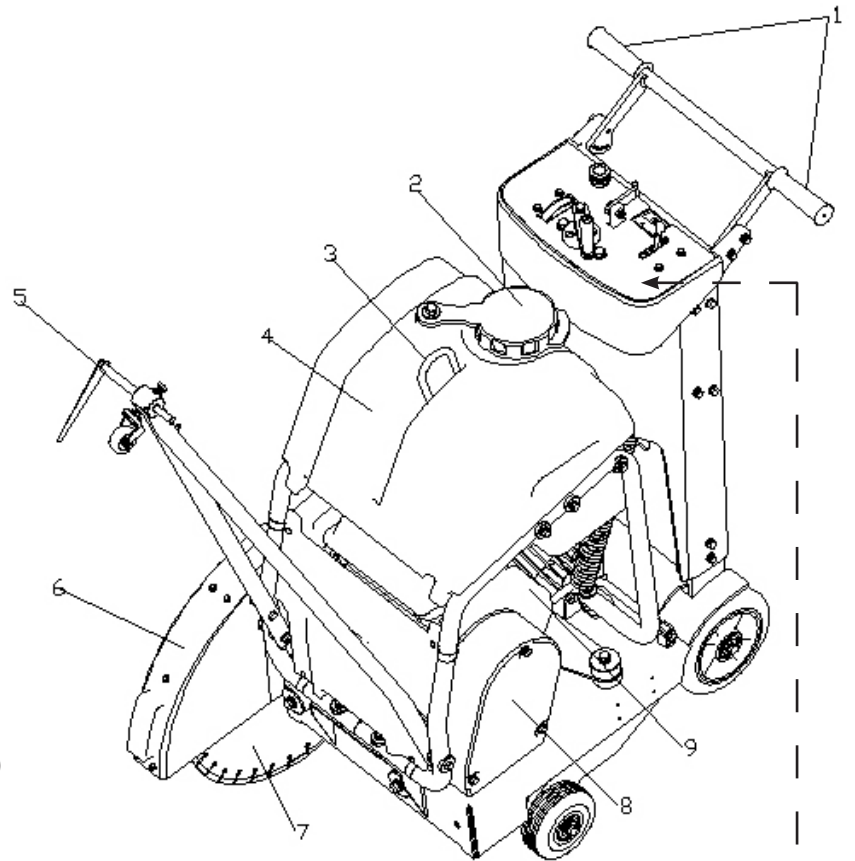
### Machine Description

#### *Intended Use*

This walk-behind floor saw is intended to be used in the wet or dry sawing of old and new concrete and asphalt. Not to be used for dry cutting in the EU as it is not equipped with a dust port.

### APS20H

1. Operation Handle
2. Water Tank Cap
3. Lifting Hook
4. Water Tank
5. Alignment Marker
6. Blade Guard
7. Blade
8. Belt Guard
9. Engine
10. Emergency Stop Button
11. Slot Depth Gauge
12. Slot Depth Control Hand Wheel
13. Throttle Lever
14. Tachometer (also with hour meter)
15. Locking Mechanism



### Pre-start Checks

The following pre-start checks must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the Service and Maintenance section for detailed guidance. If any fault is discovered, the Plate Compactor must not be used until the fault is rectified.

1. Thoroughly inspect the machine for signs of damage. Make sure all guards are in place and secured.
2. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Check the engine oil level and top up as necessary. Use proper engine oil with the proper viscosity (SAE 10W-30 recommended).
4. Check the engine fuel level and top up as necessary. Use clean fuel. Use of contaminated fuel may damage the fuel system.
5. Check the air filter is clean. Excessive dirt/dust accumulation within the filter element will cause erratic engine operation. Clean the air filter element when it is contaminated. (See Service & Maintenance Section)
6. Check for fuel and oil leaks.

### Start/Stop Procedure

**Before starting the engine, make sure that the Safety Switch is in the ON position and the Throttle Lever is set to the idle position.**

1. Verify the correct blades for the job have been chosen and that they are properly installed. Inspect the blades carefully for damage. Never use any questionable blades.
2. Check to be sure the blades are free of obstructions and the area is clear for operation.
3. Visually inspect the walk-behind floor saw. Check that all fasteners are secured and mechanical parts are in proper working order.

### Before Starting Gasoline Engine

1. Check the oil in the engine crankcase. Be sure to maintain the proper level per the engine manufacturer specifications. If the oil is dirty and in need of changing, follow the Engine User Manual instructions.
2. Check the fuel supply. Refer to Engine User Manual.
3. Visually check to be sure that the blades are free of obstructions and the area is clear for operation.
4. Adjust the handles for operator comfort and safe operation. Be sure to re-tighten knobs once handles are positioned.
5. Be sure cutting line is well defined.
6. Move the saw into operating position.

## SECTION 2 OPERATIONS

### Operations (cont'd)

#### Starting the Engine

- Check to be sure blade is raised – not in contact with the slab surface and blade guards are in place.
- If wet cutting, open water valve for the sprinkler system. Check to be sure water flows freely to the blade. Water should be visible on the ground around the blade.
- Make sure you have an adequate supply of water.
- Open throttle and allow engine to reach operating speed.

#### Starting and Controlling the Cut

- Engine must be at FULL THROTTLE.
- When maneuvering the walk-behind floor saw, make sure the blade is raised high enough so it does not strike the ground. Blade damage may occur if the blade strikes the ground while maneuvering.
- Do not maneuver the machine on inclined surfaces with the manual push engaged, or by lifting drive wheels from the ground. Loss of braking control will cause the machine to freewheel down the incline.
- To move the Slot Depth Control Hand Wheel into place, slowly turn hand wheel in the DOWN direction until the blade comes in contact with the slab surface.
- Do not allow the blade to drop onto the pavement surface, blade damage will result.
- Set the Depth Gauge at ZERO.
- Continue turning the hand wheel until the blade has penetrated the slab to the desired depth.

**NOTE: Depth Gauge is an approximate measurement – it is not exact.**



#### CAUTION

Never cut deeper than the maximum depth of cut for the blade being used. Only cut in a forward direction. Always cut with the engine at full throttle.

- Machine speed is controlled by using the throttle lever.
- Actual cutting speed is determined by type of blade, material to be cut and depth of cut.
- Do not force the blade while cutting. Use proper forward speed and allow the blade to cut and not climb out of the cut or stall in the cut.

**NOTE: If while cutting the front wheels start to lift, reduce forward speed.**



#### CAUTION

For positioning the saw, the maximum forward speed is 60mm per minute. For safety reasons, when in reverse, move at a slow walking pace. DO NOT FORCE IT TO GO FASTER.

- Always cut in a straight line. Do not force a turn in the cutting line as blade warpage or breakage may result.

### **If the blade stalls in the cut and stops power source**

- Raise the blade completely out of the cut.
- Check the blade flanges and nut/bolt, to be sure they are tight.
- Remove/open guard and secure.

### **To Stop Cutting**

- Stop moving the machine forward.
- Raise the blade in the UP direction to be clear of the cut.
- Turn off the water valve.
- Return the Throttle Lever to the idle position and allow to cool
- Shut off the engine.
- Do not leave the machine until the blade has completely stopped.
- Make sure you choke the wheels to prevent the machine from rolling.

### **Parking the Walk-behind Floor Saw**

The parking brake on the right-hand side rear wheel is designed to hold the machine on a slope of not more than 10 degrees with the rear wheels facing downhill (maximum weight should be on the braked wheels).

### **Engaging the Parking Brake**

- Pull the lever toward the center of the machine and rotate upwards 180 degrees.

### **Disengaging the Parking Brake**

- Pull the lever toward the center of the machine. Then rotate downwards 180 degrees and release to lock in position.