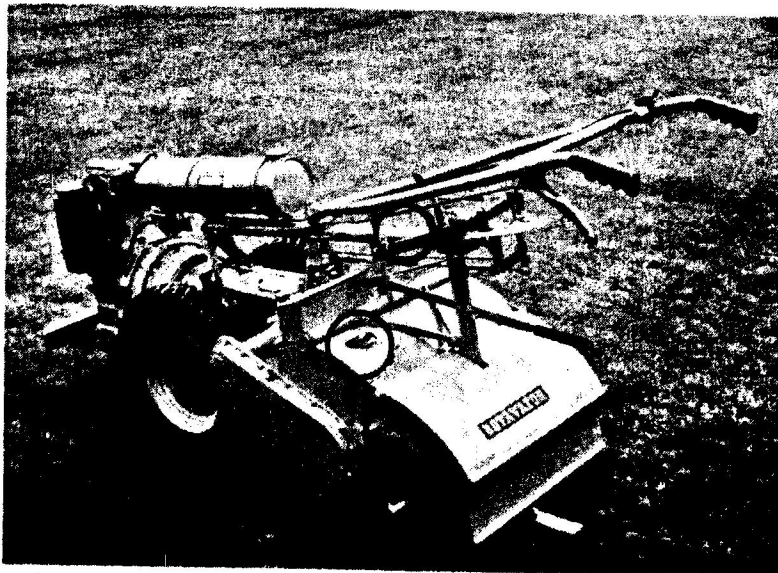


## HOWARD GEM ROTAVATOR

### Serial number location



1. On the brass plate on the rotor shield.
2. On the horizontal main spar of the frame.

Over the years there have been five series of this machine as follows:-

#### **SERIES I**

Machines from machine serial number 101 to 4800 fitted with the B.J. engine.

#### **SERIES II**

This began at machine serial number 4801 and was fitted with the original B.J. engine or an alternative J.A.P. 600 c.c. Mk. 3 engine. This series finished at serial number 14784.

#### **SERIES III**

This machine commenced at machine serial number 14785 and finished at machine serial number 38760 and was fitted with either a J.A.P. 600 c.c. Mk. 4 engine or Mk. 5 engine, or the original B.J. engine.

#### **SERIES IV**

Machines produced in this series began at serial number 38761 and finished at machine serial number 47066. This series was fitted with either the Howard 810 c.c. engine or the Sachs 500 diesel. Early model Howard engines were fitted with 180° Crankshafts. This was later modified to a 360° version crankshaft.

#### **SERIES V**

An improved 360° twin cylinder 810 c.c. engine developing 12 b.h.p. at 2000 r.p.m. was fitted from machine serial number 47067 and is recognised by a suffix /2 after the engine serial number.

From serial number 2541825 either a Kohler 301 engine was fitted or a Sachs diesel engine.

The Hatz diesel engine was introduced at machine serial number 2571945