

# INSTRUCTIONS

THE HOWARD ROTACADET is a light rotary cultivator designed THE HOWARD ROTACADET is a light solarly custivator occupion for shallow work succh as seed-bed preparation, inter-row weeding, and stubble cleaning. It is designed to work continuously at jobs requiring up to 35 h.p. The machine can, however, be mounted on tractors of 35 h.h.p. provided it is not soud in such a way as to exceed the maximum h.p. requirement of 35 h.h.p.. The satisfies that the maximum continuous working load of 35 h.p.

#### SPECIFICATION

Tillinge width: 70° (177.8 cms.).

Transmission: By Universal Drive Shaft to Bevel Gearbox; thence by Jackshaft to interchangeable sprockets and 1° pitch chain drive to solid shaft rotor.

Rotor carried on permanently-scaled self-aligning

bearings.

Welded steel, one-piece construction.

By two front skids. Wheels may be fitted as an Depth Control: aftermative.

Rotor Diameter: 3.6" (40 coms.).

Rosser Speeds ! 235 and 290 r.p.m. at 545 tractor P.T.O. r.p.m.

Linksupe: Suitable for Category I or Category II standard

linkage areangement.

#### THE NEW MACHINE: First Maintenance

fundess the machine arrives from your dealer already serviced).

- Check oil level in gearbox (use SAE 90 or Multigrade 20W/40) oil). Capacity 24 pints (14 litres). Geease Universal drive shaft spider bearings and wheel bearings
- (one Lithium base grease).
- 3. Remove Chaincase Cover. Apply approx. 2) Ib. (1.15 kgm.) of

Lithium hase grease to chain and sprockets.

Tighten all ruts and bolts.
 After two hours' work, retighten all ruts and bolts.

#### MOUNTING THE ROTAGADET

 Stabiliser bars or chains must be used. Limit sideswing to 2"-3" CS-7 coms 3 massimum.

The tracter lift rods must be lengthened, or a lift stop fitted to the lift lever quadrant to prevent overlifting of the machine. (Maconson safe angle of the drive shaft is 40° above horizontal.) Norn: With Perguson T.E.20 tractors and Allis Chalmers E.D.40 special lift rod extensions, (Part numbers 66248 and 66285 respeclively) must be used in place of the standard knockle between the lift rods and lift arms.

 The tractor top link must be adjusted so that the top of the gearbox is horizontal "forc and aft" when the blades are on the ground. For Category I tractors the small sloeve on the top-link pin should not be used.

When the ROTACADET is fitted to a Massey-Ferguson 65 with high clearance arms, an extension to the P.T.O. shaft is necessary. mitable extension is the LAWRENCE EDWARDS model A. mair.

#### WORKING INSTRUCTIONS

- 1. The slower rotor speed (smaller sprocket on top as delivered) requires less power and gives a coarser tilth than the faster rotor
- speed obtained with large sprocket on top.

  2. For tractor speeds above 3½ m.p.h. (5½ k.p.h.), the faster rotor speed must be used, otherwise the blades will roll over rather than penetrate the ground.

  3. Lower the ROTACADET into the ground with the blades turning as the tractor moves forward. Lift it out at headlands
- weithout stopping.
- 4. For a courser tilth raise the hinged shield by adjusting the quidrants. For a finer tilth lower the shield.

# **Howard Rotacadet Manual**

**Yicheng Fang** 

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AMJ, Agricultural Machinery Journal ,1963

Torque Handbook Milton Howard Aronson, Robert C. Nelson, 1964

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