

Handing—Contact Marking

Changing Shaft Handing

It is recommended that units be returned to David Brown if a change of handing has to be made. However, if it is necessary to change the shaft handing on site the following procedure should be used:

- 1 Clean and drain unit.
- 2 Dismantle — remove bolts from flange, end cover and oil catcher of wheelshaft line and lift off top.
Note: Units of 10in. centres and above are supplied with a 0.006in. paper packing which should be renewed on re-assembly.
- 3 Wheelshaft — lift out the wormwheel, shaft, bearings and covers complete and reverse. On 'V' type and flange-mounted HW units the position of the worm-wheel must not be changed. Press the wheel from the shaft, reverse the shaft and press the wheel back on.
- 4 After completing the above, wormwheel contact markings must be checked as detailed below. Oil scraper clearance relative to wheel must be set at 0.010in. to 0.015in. (0.25mm. to 0.38mm.) on 'U' type units after adjustments have been made for contact marking.
- 5 Wormshaft — Turn the case as a whole completely round and reverse the position of the wheelshaft as detailed in 3 above. For 'V' type units, simply turn the wormshaft round and fit fan and cowl on opposite end; the case should not be turned on this type. Check contact markings.
- 6 Refit and align case on its mountings.
- 7 Refill with the correct amount of an approved lubricant, see pages 12 to 15.

Checking Contact Marking

It is essential that the contact between worm and wormwheel is correct and this must be checked and adjusted as detailed below if the worm, wormwheel or both, are removed for any reason.

Provision has been made for adjustment by shimming in all David Brown gear units up to and including size 20 units. For adjustment of larger sized units consult David Brown.

- 1 Paint over the worm with engineer's marking blue.
- 2 Rotate the worm by hand, at the same time apply a slight braking pressure to the wormwheel, also by hand.
- 3 Compare the markings made on the wormwheel with those shown on the diagrams.
- 4 Adjust the wormwheel as necessary by moving the shims, positioned between case and covers, from one side to the other.

Note: The correct marking should be clear on the entering side of the teeth relative to the direction of rotation of the worm to provide a "lead in" for the lubricant and to avoid concentration of pressure on the entering side.

