

## GATE ASSEMBLY CAM ADJUSTMENT

Large Series # 1223 Medium Series # 1222

LARGE SERIES	15"
2-1/2" EX. PIPE	32

1. When installing the large series cam operated reverse gate, it is necessary on older jet drive models to cut clearance into the main jet drive housing to clear the nut holding the cam roller to allow full travel of the gate from forward to reverse.

This can be done with a drill, hacksaw and file but is more easily done with a rotary file. (see diagram)

2. Remove the rubber gate pad from beneath the main housing.
3. Install the reverse gate on the main housing. The wavy washer is used on the left side to prevent side rattle of the gate on the pivot pins. Lock the bolts holding the pivot pins. Use grease on the threads.
4. The cam roller enters the cam at the wide upper end of the slot by tipping the cam.
5. Install the hex cam eccentric and bushing assembly with 3/4 inch bolt. Do not lock the bolt.
6. Using a light finger pressure on the gate, move the gate toward reverse until the cam roller is nested in the neutral notch of the cam. Holding the gate in this position, rotate the eccentric until the gate clears the underside of the nozzle hood by the width of the clearance gage. Keep the high lift side of the eccentric facing in the upper side of the circle during this adjustment. Tighten the bolt to lock the hex cam eccentric in this position. Torque to 8-9 ft. lbs. Re-check the setting.
7. Adjust the shift cable ends and the cable anchor bracket on the jet drive such that the roller is in the neutral nest when the shift handle is in neutral. Tighten both cable end nuts.
8. Shift to forward. The roller should be at the end of the slot in the cam such that the gate cannot be forcibly rotated toward reverse. Pull on the gate by hand to verify this.

If this forward lock condition is not met, readjust the cable positions, giving less importance to the roller position in neutral.

9. If the neutral position is too far out of adjustment, the tendency of the gate to move toward reverse, under water pressure, will put tension on the cable in neutral. In some remote control boxes, this makes it difficult to re-engage the shift mode with the motor running in the high speed idle, cold start setting. It is then necessary to stop the motor, operate the shift handle to engage the shifting pin and then restart the motor.

Proper cable adjustment will prevent this problem but it is most important that the forward locking condition be met if a compromise is to be made.

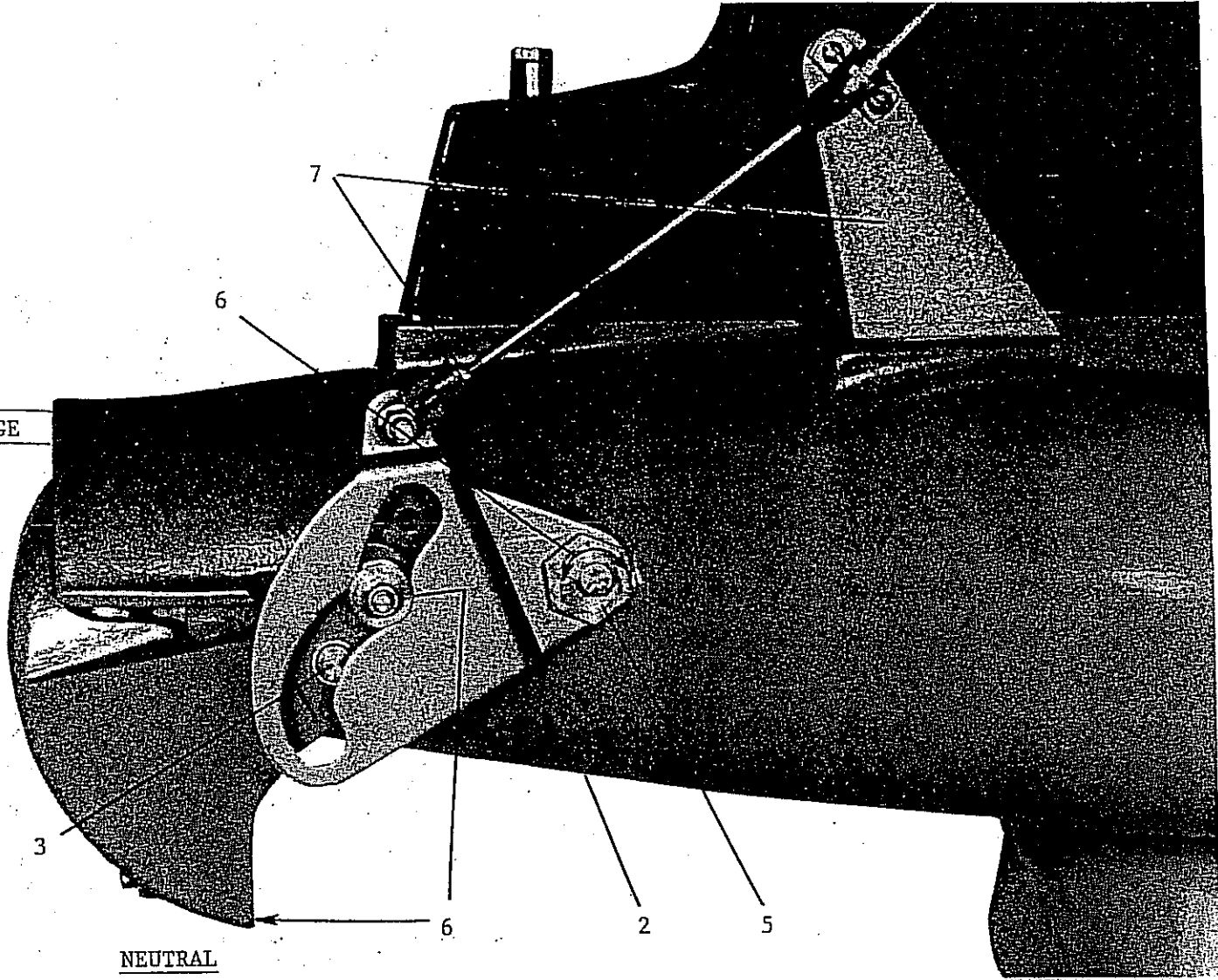
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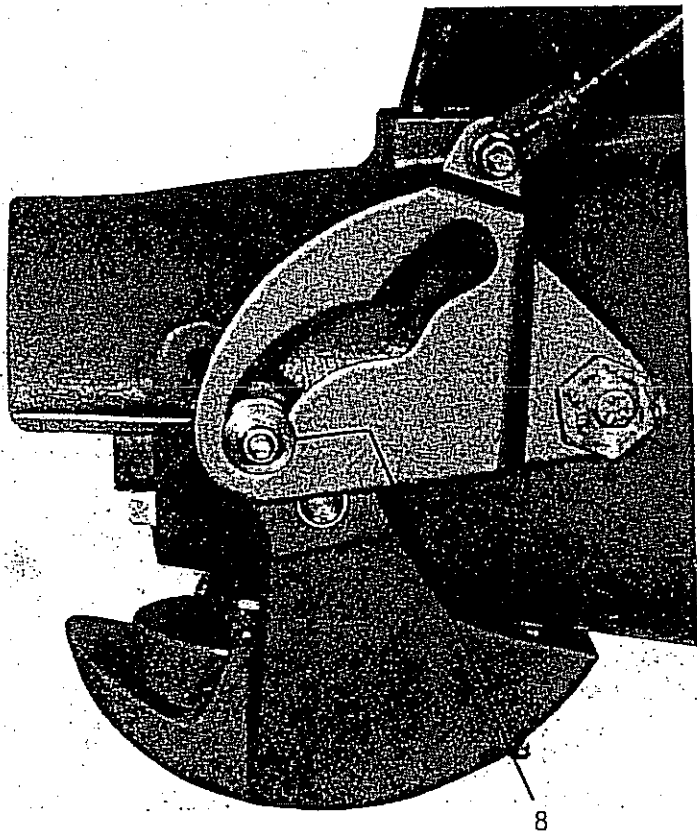
MEDIUM SERIES	9"
2" EX. PIPE	16

CUT OUT GAGE AND USE TO SET  
ECCENTRIC FOR NEUTRAL POSITION

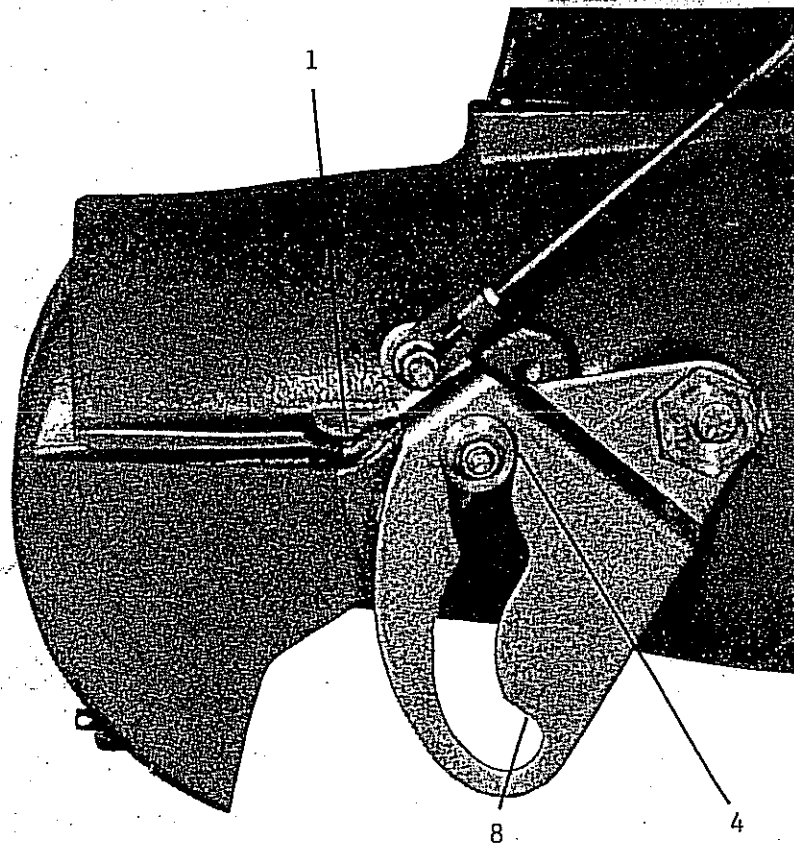
6 GAGE



NEUTRAL



FORWARD



REVERSE