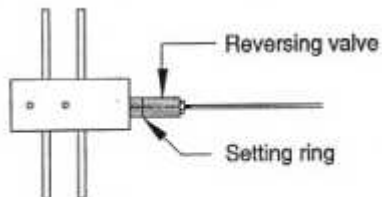
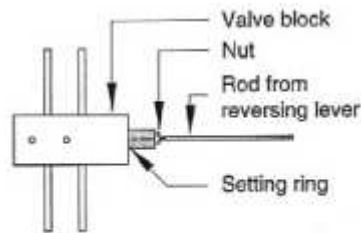


If your Ruby runs better in one direction than the other, it is possible that the reversing valve needs adjusting. This is a simple procedure if you follow the directions below:

1. To ascertain if the valve is indeed out of adjustment, first put the engine in reverse gear (reversing lever pulled toward the back). Turn the engine upside down and find the setting ring on the reversing valve (see diagram below). This is a very thin ring scribed into the valve.



Reverse gear



Forward gear

2. Put the engine in forward gear. If the valve is properly adjusted, the setting ring should be exactly flush with the edge of the valve block. If you find that the valve is properly set and the engine still does not perform properly, something else is the cause of the problem and you may have to return the locomotive to us.

3. If the valve is out of adjustment (i.e., the setting ring does not just touch the valve block, or it travels into the valve block), resetting it is a simple matter. Undo the lock nut on the rod from the reversing lever and screw the valve in or out as needs be, checking the alignment of the setting ring with the valve block as you turn it. When the setting ring just touches the valve block when the valve is in the 'fully in' position, tighten the lock nut to prevent the valve from further movement. The loco should now perform equally in both directions. If it does not do so, please contact us.

This setting ring adjustment also applies to the cylinder piston valve setting. The setting ring should be exactly level with the back face of the valve block when the valve is in the 'fully in' position. Turn the wheels until the piston valve on one side is as far in as it will go and check the position of the setting ring. If it is out of alignment adjust in or out as required.

To adjust use an open ended spanner on the lock nut next to the piston valve while holding the valve stem, to the rear of the setting ring, with a pair of pliers. Loosen the nut and then rotate the valve in the required direction to get the valve to the correct position with the setting line just touching the rear face of the valve block. Lock the lock nut against the piston valve, and then do the same checking procedure for the other side piston valve.