



## SETTING THE IMPELLER CLEARANCE

There are two parts to setting impeller clearance on the pump.

1. The back of the impeller to the adapter cover, (see 'A' on page 2).
2. The front of the impeller to the wear plate, (see 'B' on page 3).

### Impeller to Adapter Cover

1. Ensure shaft threads are completely clean before installing impeller. Even the slightest amount of dirt on threads can cause the impeller to seize to the shaft, making future removal difficult or impossible without damaging the shaft.
2. Install the same thickness of impeller shims as when removed and screw the impeller onto the shaft until tight.

**NOTE:** At the slightest sign of binding, immediately back the impeller off and inspect the threads. The impeller and impeller shaft have fine threads of 1½" UNF, any slight imperfections, dings, or contaminants on the threads may cause them to bind. Cleaning or chasing the threads would correct the problem.

3. For maximum pump efficiency set the clearance between the impeller and adaptor cover to recommended specification.
4. Measure the clearance, and add or remove adjusting shims as needed (see page 2).

**(Clearance Specification .025 - .040 inch ~ .64 - 1.02 mm)**

### Impeller to Wear Plate

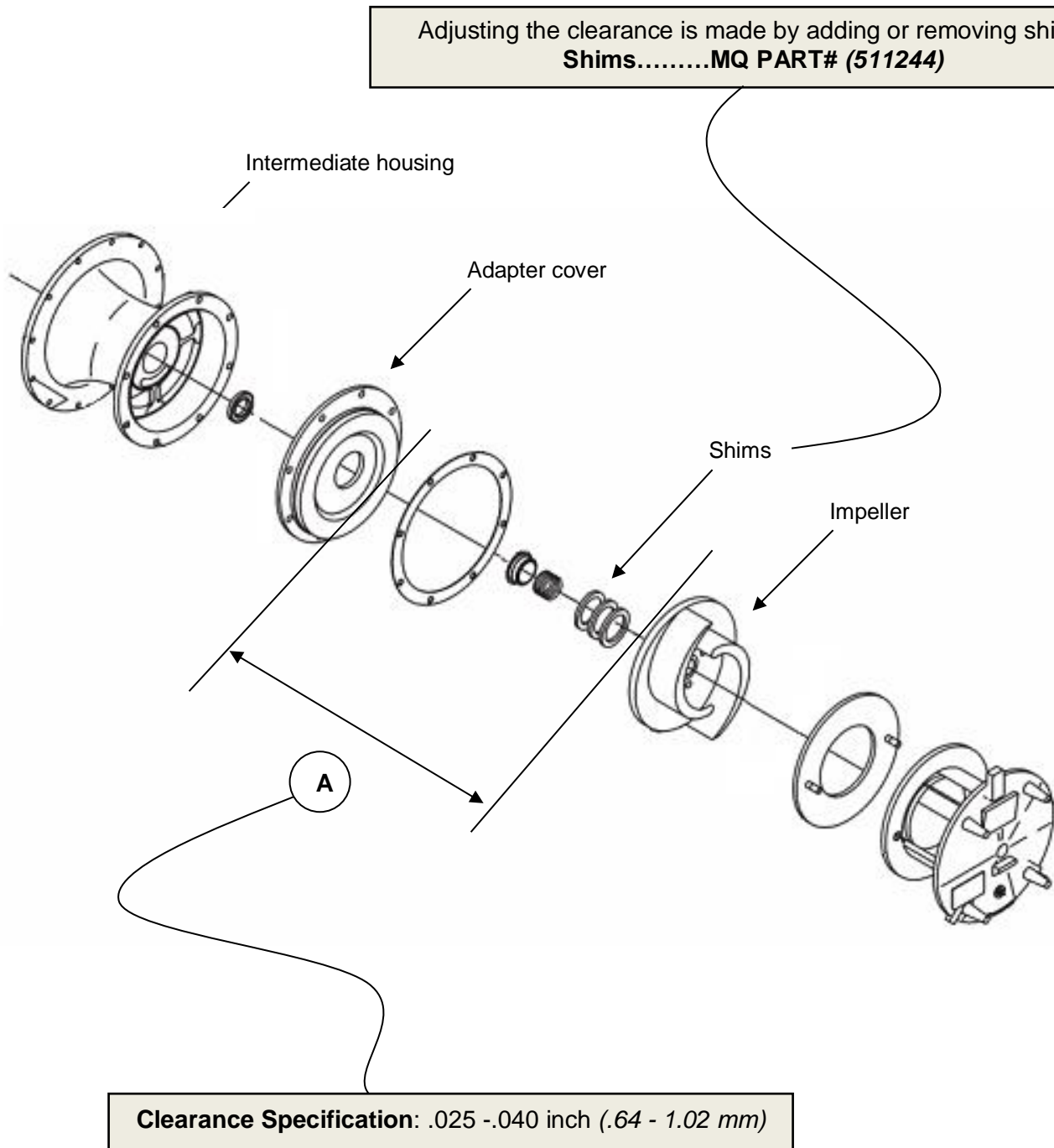
1. For maximum pump efficiency set the clearance between the impeller and wear plate to recommended specification.
2. This clearance can be set after installing the back cover by adding or removing gaskets until the impeller scrapes (see page 3).

**(Clearance Specification .010 - .020 inch ~ .25 - .50 mm)**



## IMPELLER TO ADAPTER COVER CLEARANCE

Install adapter cover to intermediate housing (*slightly snug*) with mounting nuts. **DO NOT** tighten nuts until impeller to wear plate clearance has been set (*see next page*). Measure the clearance and add or remove shims as needed. Clearance: (.025 - .040 inch ~ .64 - 1.02 mm)





## IMPELLER TO WEAR PLATE CLEARANCE

Wear plate must be mounted to cover to make cover assembly. Installing cover assembly will allow you to set the clearance. Add or remove gaskets (see below) until the impeller scrapes against wear plate (when shaft is turning). At this point add an additional (.010inch ~ .25mm) gasket.

Alternate method: reach through the discharge port with a feeler gage and measure the gap, then add or remove gaskets as needed.

