Adjustable
Municipal Casting Installation Guide

1. Introduction

1.1 RimRiser™ hardware is intended for use with RimRiser-Ready municipal castings and RimRiser-Ready precast concrete tops.

1.2 The following information is intended as a guide for installing municipal castings such as cast iron manhole rings (**Figure 1**) and cast iron catch basin frames (**Figure 2**) using RimRiser installation products.

1.3 The user's field experience and modifications to these recommended procedures may yield slightly different, although acceptable, results.

1.4 Refer to local standard specifications for additional installation details.

Figure 1 *RimRiser for Cast Iron - Manhole Ring*

2. Note to Installer

If you experience any issues with the installation of RimRiser™ products, please don't hesitate to contact our team at (360) 833-2277 or help@rimriser.com. Use only genuine RimRiser parts and RimRiser-Ready castings.

3. Suggested Tool List

- One of the following:
  - cordless drill driver to accept 5/8" hex nut driver (12" long X 5/8" hex nut driver see **Figure 1**, EAZYPOWER P/N 32821)
  - ratchet wrench or speed wrench with a 5/8" hex nut socket
- Construction level
- String lines
- Tape measure
- Powered cut-off saw
- Non-shrink grout (refer to local specifications)
- Cleaning cloth and brush

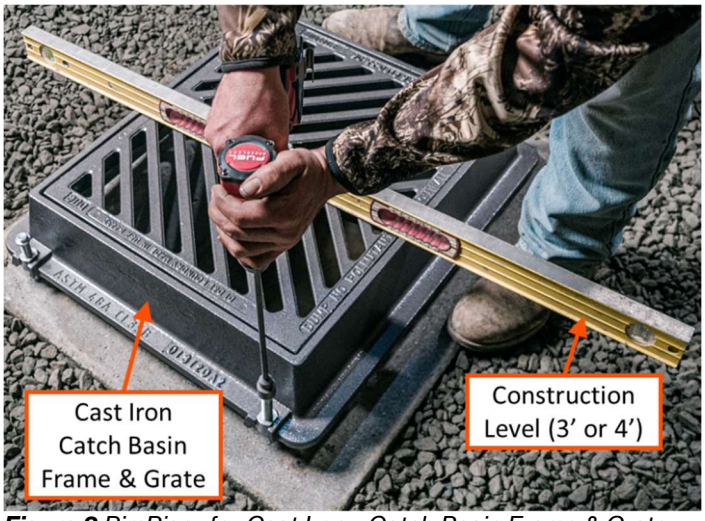

Figure 2 *RimRiser for Cast Iron - Catch Basin Frame & Grate*

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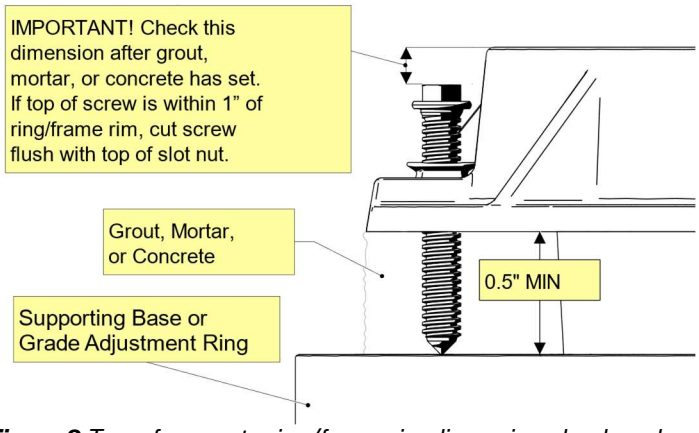

Figure 3 *Top of screw to ring/frame rim dimension check and minimum recommended gap dimension*

4. Adjust Ring/Frame to Grade

4.1 Determine and/or mark finished grade according to appropriate standard methods (for example, marking with string lines or evaluating with a construction level).

4.2 Refer to the table below for RimRiser screw vertical lift capability. Eight (8) turns equal 1" of vertical adjustment.

P/N	Description	Vertical Lift
RR-0058-3	3" screw	1 7/8"
RR-0058-4	4" screw	2 7/8"

4.3 If the supporting base needs to be raised, select a suitable combination of grade adjustment rings to bring cast iron ring/frame within finished grade adjustment range. Plan to have a minimum gap of 0.5" between the top of supporting base and bottom of ring/frame for grouting after adjustment (see **Figure 3**).

4.4 Center grade adjustment ring over the manhole or catch basin opening.

4.5 Grout/mortar grade adjustment ring in place according to local agency specifications.

4.6 Position catch basin frame or manhole ring on top of supporting base or grade adjustment ring.

4.7 Thread the four (4) RimRiser screws (P/N RR-0058) into slot nuts (P/N RR-0001) and slide into casting (see **Figure 4**).

4.8 With ring/frame in final lateral position, use a drill, rachet, or speed wrench (**Figure 1**) to turn screws until rim of ring/frame satisfactorily meets specified grade.

4.9 Make fine adjustments to screws as necessary to remove any wobble, taking care to maintain specified grade.

5. Place Grout, Mortar, or Concrete

5.1 Fill and pack gap/void between ring/frame and supporting base with agency-approved non-shrink grout, mortar, or concrete. Pack gap-filling material around screws and slot nuts.

5.2 Finish gap-filling material smooth/flush with the interior and exterior of the adjoining surfaces (gap/void is typically less than 2").

5.3 Like traditional shims, leave screw and nut in place.

5.4 Brush and wipe ring/frame clean.

6. Check Screw to Rim Dimension

Once grout/mortar has set, check dimension from top of screw to top of ring/grate rim. If top of screw is within 1" of ring/frame rim, cut screw flush with top of slot nut, leaving cut-off screw and slot nut in place (see **Figure 3**).

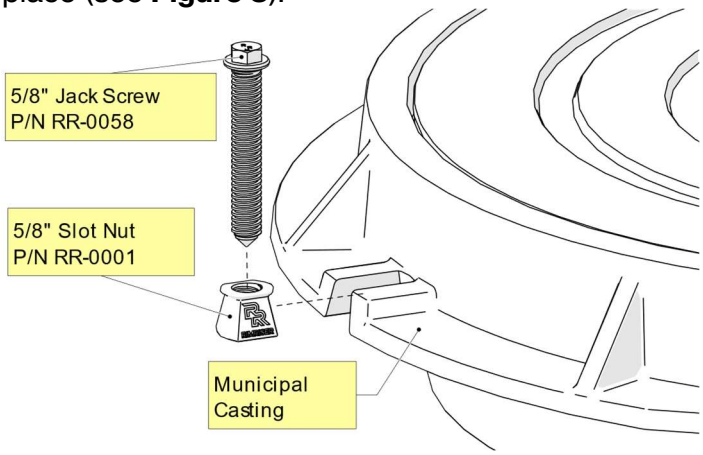

Figure 4 *Inserting slot nut and jack screw*