

IDENTIFICATION GUIDE & TECHNICAL REFERENCE

JOHNNY JOINT®

PERFORMANCE ROD ENDS

IDENTIFYING A JOHNNY JOINT® FOR REBUILD

Applies to all RockJock Johnny Joint® rod ends: 2", 2 1/2", and 3" body series, standard width and narrow body

Rebuild kits **CE-9112RK** · **CE-9112NRK** · **CE-9110RK** · **CE-9110NRK** · **CE-9111RK** · **CE-9111FNRK** · **CE-9111NRK**

Also see Johnny Joint® Tools **CE-9112T** (2") · **CE-9110T** (2 1/2") · **CE-9111T** (3")

Use this guide before disassembling your vehicle or a Johnny Joint® to determine which rebuild kit is necessary. The Section 3 table gives the rebuild kit and the tool part numbers to make the job easy. The rebuild procedure is the Johnny Joint® Tool manual, DOC RJ-IM-JJ-TOOL; safety messages here follow its ANSI Z535.6 signal-word system.



WARNING

This guide identifies a Johnny Joint and its rebuild kit and tool. It is not a rebuild procedure.

A joint taken apart without that procedure can release parts under load and cause eye injury or cuts; one rebuilt with worn parts or an unseated snap ring can separate in service, causing loss of vehicle control, a crash, serious injury, or death.

→ Read and understand the Johnny Joint Tool manual (DOC RJ-IM-JJ-TOOL) before disassembling or rebuilding any Johnny Joint. If you do not understand any part of it, have the joint rebuilt by a qualified professional shop.

1 WHAT IS INSIDE A JOHNNY JOINT®

Know the parts inside the joint (FIG. 1). Inside the **outer shell** is a forged **ball center** held in a **urethane bushing**: **narrow body** Johnny Joints have a **one-piece bushing**; **standard width body** Johnny Joints have **two-piece interlocking bushings** (FIGs. 2 and 3). A stamped steel **side washer** sits on each side of the bushing, and the stack is retained by a **snap ring** seated in a groove machined inside one end of the shell. A grease fitting in the shell feeds lube to the ball center.

The bushing is compressed as the joint is built, so the snap ring, washers, and internals are under load whenever the joint is assembled. The construction is the same for 2", 2 1/2", and 3" joints — only the size of the parts, and of the rebuild kit and tool, changes.

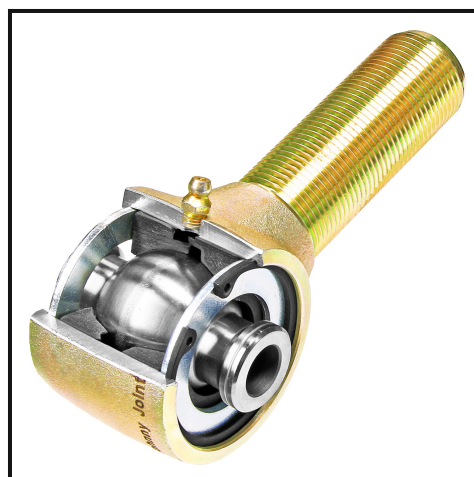


FIG. 1 Cutaway Johnny Joint®: shell, ball center, bushing, side washers, snap ring, grease fitting.

2 ONE-PIECE OR TWO-PIECE BUSHING?

If the joint is already apart, the bushing tells you which body style you have. A **narrow body** joint has a single **one-piece bushing** (FIG. 2); a **standard width body** joint has **two interlocking bushing halves** (FIG. 3).

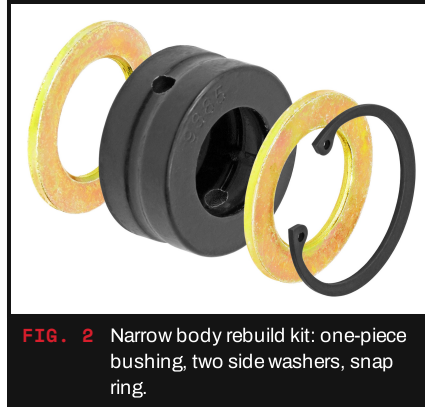


FIG. 2 Narrow body rebuild kit: one-piece bushing, two side washers, snap ring.



FIG. 3 Standard width body rebuild kit: two interlocking bushing halves, two side washers, snap ring.

3 HOW TO IDENTIFY THE REBUILD KIT YOU NEED

Measure the assembled joint. Measure the **joint O.D.** across the outer shell (FIG. 4): that is the **body series** (2", 2 1/2", or 3"), which selects the rebuild kit size and the tool. Measure the **body width** across the shell (FIG. 5) and read the **body type** from the table: standard width bodies use a two-piece urethane bushing, narrow bodies a one-piece bushing. The two designs have no functional difference and the same strength and durability; the narrow body typically offers more articulation (more space between the joint body and the mounting tabs).



FIG. 4 Joint O.D. = body series.



FIG. 5 Body width = body type.

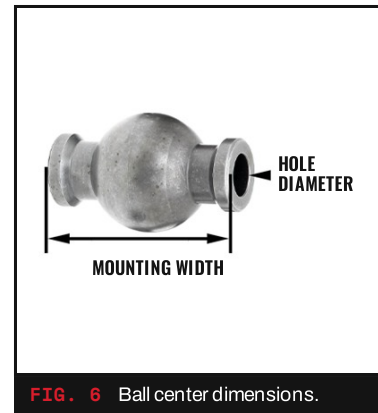


FIG. 6 Ball center dimensions.

BODY SERIES (JOINT O.D.)	BODY WIDTH	BODY TYPE	BUSHING	REBUILD KIT	TOOL	THREAD SIZES (RH/LH SHANK)
2"	1.45"	Standard	Two-piece	CE-9112RK	CE-9112T	3/4"-16, 1"-14
2"	1.20"	Narrow	One-piece	CE-9112NRK	CE-9112T	3/4"-16, 7/8"-14, 1"-14
2 1/2"	2"	Standard	Two-piece	CE-9110RK	CE-9110T	1"-14, 1 1/4"-12
2 1/2"	1.69"	Narrow	One-piece	CE-9110NRK	CE-9110T	7/8"-14, 1"-14, 1 1/4"-12
3"	2.47"	Standard	Two-piece	CE-9111RK	CE-9111T	N/A (weld-on only)
3"	2"	Narrow	One-piece	CE-9111FNRK forged CE-9111NRK weld-on	CE-9111T	1 1/2"-12

Each rebuild kit services one joint (4-packs: -BDL-4P suffix); thread sizes apply to forged and stainless steel joints. **Mounting width** (distance between the mounting tabs) and **hole diameter** (FIG. 6) identify the joint for ordering but do not change the tool or rebuild kit.

NOTICE

Order the rebuild kit and the tool for the joint's body series and body type only.

A kit of the wrong size or body type does not fit the joint, and a joint that does not lock into the tool base's shoulder can damage the shell or tool.

→ Match the joint O.D. and body width to the table above (FIGs. 4 and 5) before ordering.