

RIALCAdue



RIlock
fix it easy

Technical information:

Steel: Sae 1050

Hardness: 37-42 HRc



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RIlock video..

PATENT PENDING





Retainer throat

The throat on the retainer is made to receive the expandable spheres of **RIlock** pin in order to seal together pin and retainer with more retention than normal system.

RIlock is the new locking devise developed by **RIALCA^{due}** for GET.

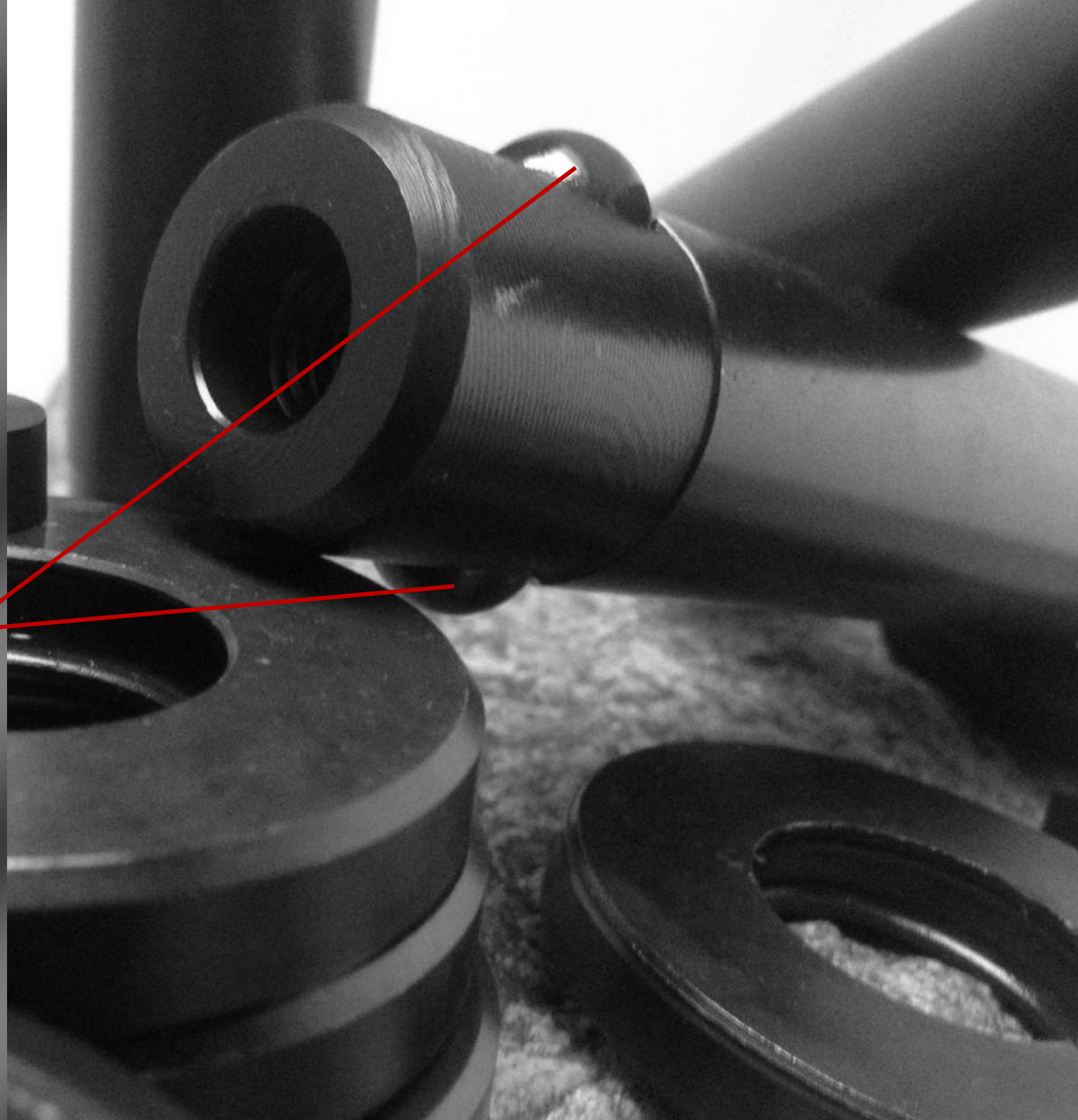
Rialca Due has developed a new locking devises for buckets teeth using its 30 years of experiences in spare parts and in particular in locking devices for GET. **RIlock** is an innovative product and it is under **PAT PENDING**.

RIlock makes Hammerless traditional GET systems Cat J, Komatsu and Fiat Hitachi.

Using pin and retainer **RI**lock common teeth system on the market Caterpillar J, Komatsu and Fiat Hitachi (knew also as Fixmet or Orca) become **hammerless**. To fix tips on adapter will need just a simple **rotation** of the **RI**lock pin with **2** normal **allen**.

Expandable spheres

The expandable spheres can move inside the radial channel on the **pin**. When **RI**lock is not fixed with the **2 allen**s, the **spheres** can move and allow the **pin** to fit in and fit out the **retainer** doing a "**clack**" sound.





Pin-retainer beat

In the same side of the **spheres** there is a **raised beat** to help **pin** to fit in the **retainer**; in fact it has been designed to stop the **pin** at the right alignment with the **retainer**.

RIlock works with every tip and adapter available on the market.

RIlock has been designed on the measures of the standards system Caterpillar J, Komatsu and Fiat Hitachi, so **RI**lock pin and retainer can be installed on every tip and adapter available on the market. This means maximum flexibility for customers because they can use **RI**lock with tips and adapters they prefer.

Higher retention due to mechanical locking

means

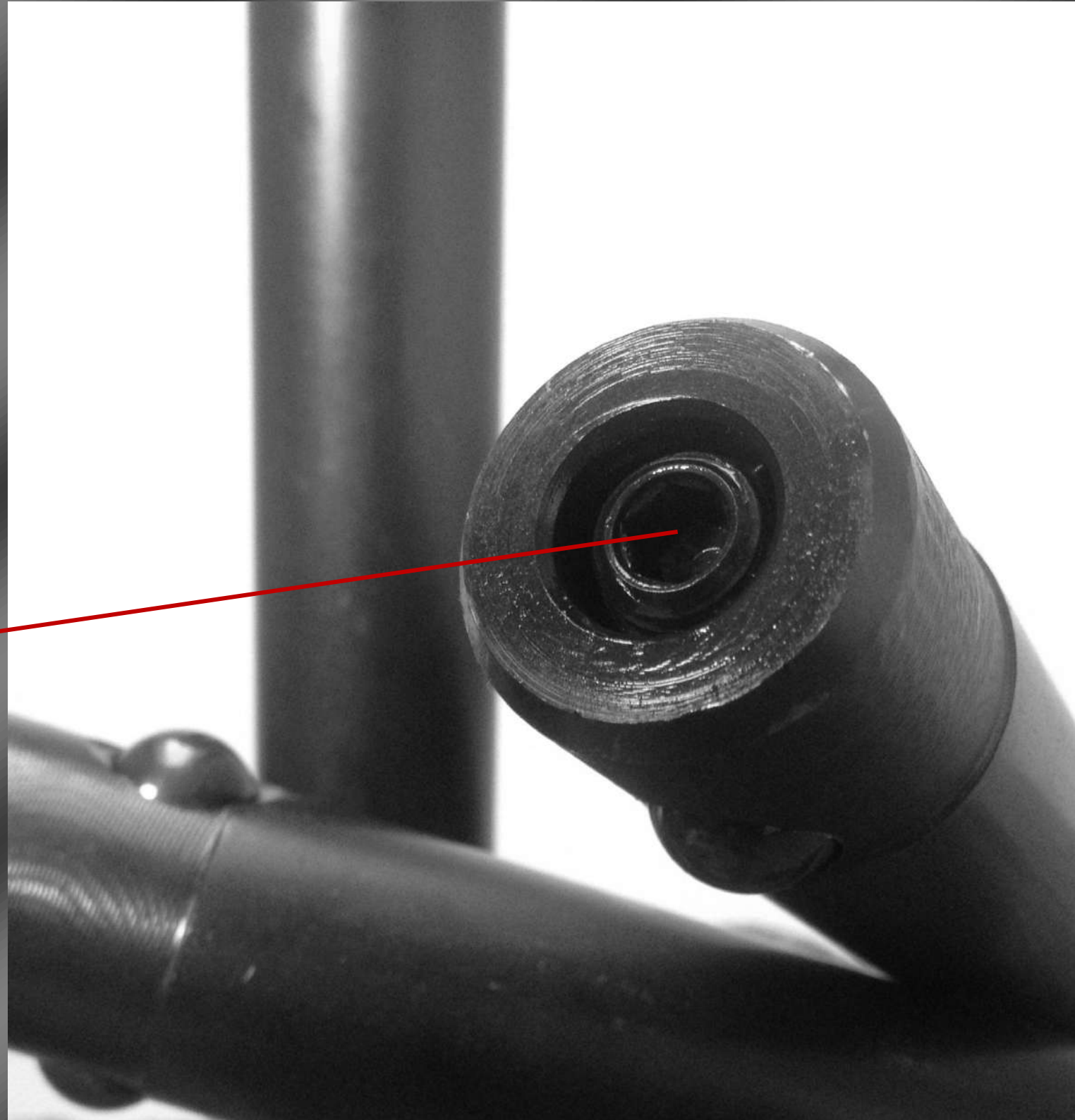
Zero tips losses

The mechanical seal between pin and retainer of **RIlock** guarantee more retention than standard systems with elastic retainer. This is an important advantage that allow to delete the dangerous and expensive problem of tips losses that can happen in particular working on rocks or in water.

Screw

On the pin face in the same side of spheres there is a hole that receive the screw; it allows to fix the spheres in the retainer throat and so to fix hardly pin and retainer in the tips. It is a mechanical seal that has more retention than normal elastic ring that can make lose the tip.

The hole on the surface is larger to prevent that the wear of the hole can compromise dismounting.





Back allen

On the back side of the pin there is an other allen hole: it receives an other allen to prevent pin rotation due to the other allen on the front.

The hole on the surface is larger to prevent that the wear of the hole can compromise dismounting.

Hammerless pin
means

*Occupational safety
and convenience*

RIlock will makes you forget hammer, in fact it enter and go out in tips and in adapters holes using hand. The only tools **RIlock** need to be locked by 2 allen. Use hammer can be dangerous and uncomfortable, but this is no longer a problem with **RIlock**.

Install with easy rotation
means

***Quick installation and
removing***

*Installation and removing with
RIlock are faster than standard pin and
retainer that need hammer. **RIlock**
make them easier and faster; save time
means also save money.*

Rubber plugs

*The 2 holes in the pin
are protected by debris
using rubber plugs. They
can be put with fingers and
removed with the help of a
screwdriver.*



How to install **RI**lock

fix it easy



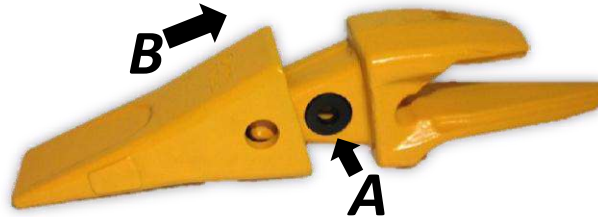
Give a
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1



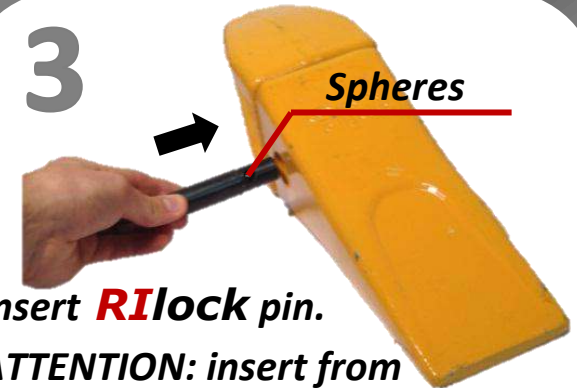
Remove the 2 plugs from bottom and front of the pin, using a little screwdriver.

2



(A) put **RI**lock retainer in the throat of the adapter and (B) put on your tip on adapter nose, as usual.

3



Insert **RI**lock pin.

ATTENTION: insert from other side of adapter throat.

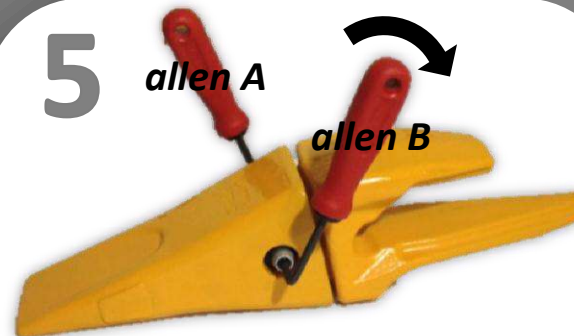
ATTENTION: insert pin on the edge of spheres.

4



Insert pin until there is CLACK sound. Then **RI**lock is ready to be fixed.

5



Put allen A on bottom of pin to keep pin stopped. Put the allen B on the edge of spheres and rotate to screw **RI**lock until it is well locked.

6



Put the 2 plugs to protect allen holes from soil and concrete.

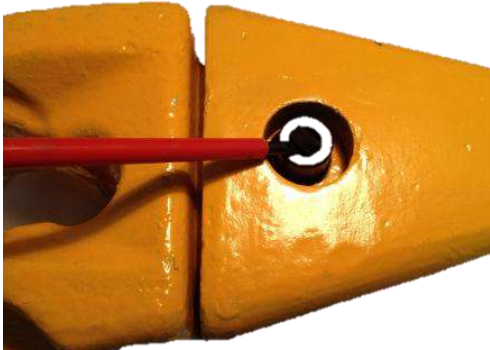
How to remove **RI**lock

fix it easy



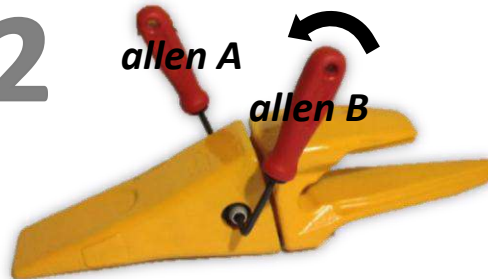
Give a
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1



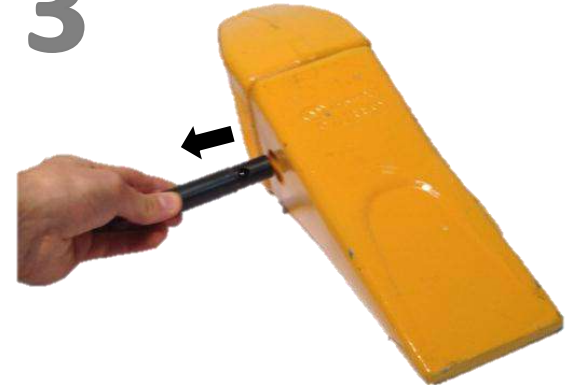
Remove the 2 plugs using a screwdriver.

2



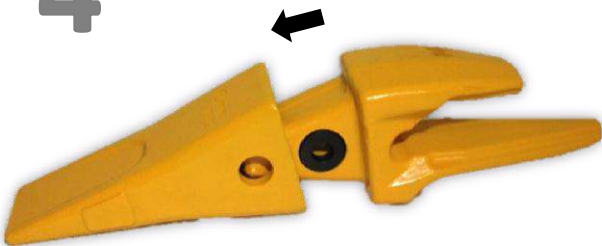
Put allen A on bottom of pin to keep pin stopped. Put the allen B on the edge of spheres and rotate to screw **RI**lock off until it is loose.

3



Remove **RI**lock pin.

4



Remove consumed tip.

5



Remove **RI**lock retainer.

6



For next installation clean the adapter throat for the retainer if dirty.

RIlock references

| RIlock references | Locking System | Size | particular | References compatibility | |
|-------------------|----------------|-------------------|------------|--------------------------|---------------------------------|
| RI6208 | Caterpillar | J200 | pin | 1U4208 | 8E6208 |
| RI6209 | Caterpillar | J200 | retainer | 4T0001 | 8E6209 |
| RI3228 | Caterpillar | J225 | pin | 6Y3228 | 1324762 |
| RI6258 | Caterpillar | J250 | pin | 9J2258 | 8E6258 1324763 |
| RI6308 | Caterpillar | J300 | pin | 9J2308 | 8E6308 1324766 |
| RI6259 | Caterpillar | J225 J250 J300 | retainer | 3G9609 | 8E6259 1495733 |
| RI6358 | Caterpillar | J350 | pin | 9J2358 | 8E6358 1140358 |
| RI6359 | Caterpillar | J350 | retainer | 3G9549 | 8E6359 1140359 |
| RI3408 | Caterpillar | J400 | pin | 7T3408 | 1167408 |
| RI8409 | Caterpillar | J400 | retainer | 8E8409 | 1167409 |
| RI0468 | Caterpillar | J460 | pin | 8E0468 | 1040468 |
| RI8469 | Caterpillar | J460 | retainer | 8E8469 | 1073469 |
| RI8558 | Caterpillar | J550 | pin | 1U1558 | 6Y8558 1073378 |
| RI5559 | Caterpillar | J550 | retainer | 3G9559 | 8E5559 1078559 |
| RI6608 | Caterpillar | J600 | pin | 6I6608 | 1139608 |
| RI6609 | Caterpillar | J600 | retainer | 6I6609 | 1139609 |
| RI4708 | Caterpillar | J700 | pin | 8E4708 | 1134708 |
| RI4707 | Caterpillar | J700 | retainer | 8E4707 | 1134709 |
| RI1808 | Caterpillar | J800 | pin | 1341808 | |
| RI1809 | Caterpillar | J800 | retainer | 1341809 | 1012874 |
| RI2668 | Caterpillar | R300 | pin | 9W2668 | 9J6583 |
| RI2678 | Caterpillar | R350 | pin | 9W2678 | |

| RIlock references | Locking System | Size | particular | References compatibility | |
|----------------------|----------------|-----------|------------|--------------------------|--|
| RI2405 | Caterpillar | R300 R350 | retainer | 1U2405 | |
| RI9600 | Caterpillar | R400 | pin | 7J9600 | |
| RI8811 | Caterpillar | R450 | pin | 6J8811 | |
| RI3394 | Caterpillar | R450 | pin | 6Y3394 | |
| RI4743 | Caterpillar | R450 | retainer | 8E4743 | |
| RI0500 | Caterpillar | R500 | pin | 3G0500 | |
| RI1204 | Caterpillar | R500 | pin | 6Y1204 | |
| RI1202 | Caterpillar | R500 | pin | 6Y1202 | |
| RI3909 | Caterpillar | R500 | retainer | 6Y3909 | |
| RI4245 | Caterpillar | R550 | pin | 9N4245 | |
| RI1205 | Caterpillar | R550 | retainer | 6Y1205 | |
| RI2229 | Caterpillar | R550 | pin | 8E2229 | |
| RI2230 | Caterpillar | R550 | retainer | 8E2230 | |
| RI0738 | Caterpillar | | pin | 1330738 | |
| RI9350 | Caterpillar | | pin | 1359350 | |
| RI09244.02496 | Komatsu | | pin | 09244.02496 | |
| RI09244.02508 | Komatsu | | pin | 09244.02508 | |
| RI09244.02516 | Komatsu | | pin | 09244.02516 | |
| RI09244.03036 | Komatsu | | pin | 09244.03036 | |
| RI-22P | Fiat Hitachi | 22 | pin | 2MF-22P | |
| RI-21/22R | Fiat Hitachi | 22 | retainer | 2MF-21/22R | |
| RI-24P | Fiat Hitachi | 24 | pin | 2MF-24P | |
| RI-24R | Fiat Hitachi | 24 | retainer | 2MF24R | |
| RI-26P | Fiat Hitachi | 26 | pin | 2MF-26P | |
| RI-28P | Fiat Hitachi | 28 | pin | 2MF-28P | |
| RI-26/28R | Fiat Hitachi | 28 | retainer | 2MF-26/28R | |
| RI-32P | Fiat Hitachi | 32 | pin | 2MF-32P | |
| RI-34P | Fiat Hitachi | 34 | pin | 2MF-34P | |
| RI-32/34R | Fiat Hitachi | 32 34 | retainer | 2MF-32/34R | |

MARKET references

| references | Locking System | Size | particular | RIlock compatibility |
|------------|----------------|-------------------|------------|----------------------|
| 1U4208 | Caterpillar | J200 | pin | RI6208 |
| 8E6208 | Caterpillar | J200 | Pin | RI6208 |
| 4T0001 | Caterpillar | J200 | retainer | RI6209 |
| 8E6209 | Caterpillar | J200 | retainer | RI6209 |
| 6Y3228 | Caterpillar | J225 | pin | RI3228 |
| 9J2258 | Caterpillar | J250 | pin | RI6258 |
| 8E6258 | Caterpillar | J250 | pin | RI6258 |
| 9J2308 | Caterpillar | J300 | pin | RI6308 |
| 8E6308 | Caterpillar | J300 | pin | RI6308 |
| 3G9609 | Caterpillar | J225 J250 J300 | retainer | RI6259 |
| 8E6259 | Caterpillar | J225 J250 J300 | retainer | RI6259 |
| 1324762 | Caterpillar | J225 | pin | RI3228 |
| 1324763 | Caterpillar | J250 | pin | RI6258 |
| 1324766 | Caterpillar | J300 | pin | RI6308 |
| 1495733 | Caterpillar | J225 J250 J300 | retainer | RI6259 |
| 9J2358 | Caterpillar | J350 | pin | RI6358 |
| 8E6358 | Caterpillar | J350 | pin | RI6358 |
| 3G9549 | Caterpillar | J350 | retainer | RI6359 |
| 8E6359 | Caterpillar | J350 | retainer | RI6359 |
| 1140358 | Caterpillar | J350 | pin | RI6358 |
| 1140359 | Caterpillar | J350 | retainer | RI6359 |
| 7T3408 | Caterpillar | J400 | pin | RI3408 |
| 1167408 | Caterpillar | J400 | pin | RI3408 |
| 8E8409 | Caterpillar | J400 | retainer | RI8409 |
| 1167409 | Caterpillar | J400 | retainer | RI8409 |
| 8E0468 | Caterpillar | J460 | pin | RI0468 |
| 1040468 | Caterpillar | J460 | pin | RI0468 |
| 8E8469 | Caterpillar | J460 | retainer | RI8469 |
| 1073469 | Caterpillar | J460 | retainer | RI8469 |
| 3G0500 | Caterpillar | R500 | pin | RI0500 |
| 9N4245 | Caterpillar | R550 | pin | RI4245 |

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| 1U1558 | Caterpillar | J550 | pin | RI8558 |
| 6Y8558 | Caterpillar | J550 | pin | RI8558 |
| 3G9559 | Caterpillar | J550 | retainer | RI5559 |
| 8E5559 | Caterpillar | J550 | retainer | RI5559 |
| 1073378 | Caterpillar | J550 | pin | RI8558 |
| 1078559 | Caterpillar | J550 | retainer | RI5559 |
| 6I6608 | Caterpillar | J600 | pin | RI6608 |
| 1139608 | Caterpillar | J600 | pin | RI6608 |
| 6I6609 | Caterpillar | J600 | retainer | RI6609 |
| 1139609 | Caterpillar | J600 | retainer | RI6609 |
| 8E4708 | Caterpillar | J700 | pin | RI4708 |
| 1134708 | Caterpillar | J700 | pin | RI4708 |
| 8E4707 | Caterpillar | J700 | retainer | RI4707 |
| 1134709 | Caterpillar | J700 | retainer | RI4707 |
| 1341808 | Caterpillar | J800 | pin | RI1808 |
| 1341809 | Caterpillar | J800 | retainer | RI1809 |
| 1012874 | Caterpillar | J800 | retainer | RI1809 |
| 9W2668 | Caterpillar | R300 | pin | RI2668 |
| 9J6583 | Caterpillar | R300 | pin | RI2668 |
| 9W2678 | Caterpillar | R350 | pin | RI2678 |
| 1U2405 | Caterpillar | R300 R350 | retainer | RI2405 |
| 7J9600 | Caterpillar | R400 | pin | RI9600 |
| 6J8811 | Caterpillar | R450 | pin | RI8811 |
| 6Y3394 | Caterpillar | R450 | pin | RI3394 |
| 8E4743 | Caterpillar | R450 | retainer | RI4743 |
| 6Y1205 | Caterpillar | R550 | retainer | RI1205 |
| 8E2229 | Caterpillar | R550 | pin | RI2229 |
| 8E2230 | Caterpillar | R550 | retainer | RI2230 |
| 1330738 | Caterpillar | | pin | RI0738 |
| 1359350 | Caterpillar | | pin | RI9350 |
| 6Y1204 | Caterpillar | R500 | pin | RI1204 |
| 6Y1202 | Caterpillar | R500 | retainer | RI1202 |
| 6Y3909 | Caterpillar | R500 | pin | RI3909 |





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