

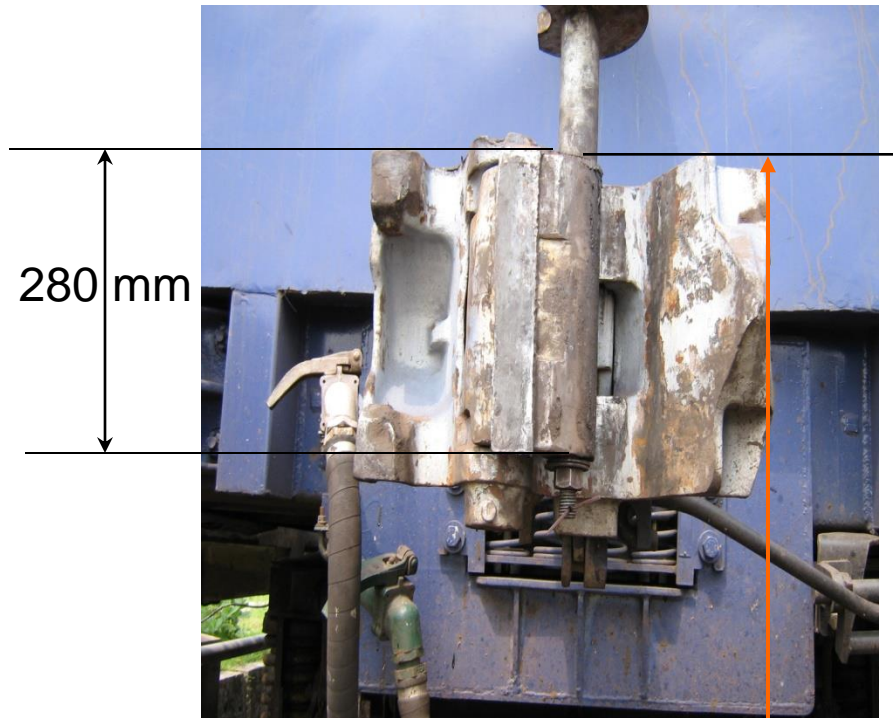
Presentation on
AAR type H-type tight lock
Center buffer coupler

Anti-climbing feature of Coaching CBC, and this portion is not available at LOCO CBC. For that reason restrictor is provided in SLR to restrict uncoupling of LOCO due to vertical movement of loco CBC

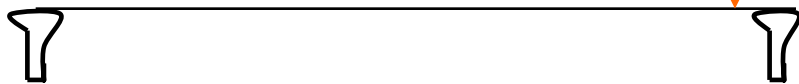
Restrictor on the SLR/VPH/Power Car CBC knuckle to avoid vertical parting on run under adverse track condition

AAR type H tight lock Center buffer coupler

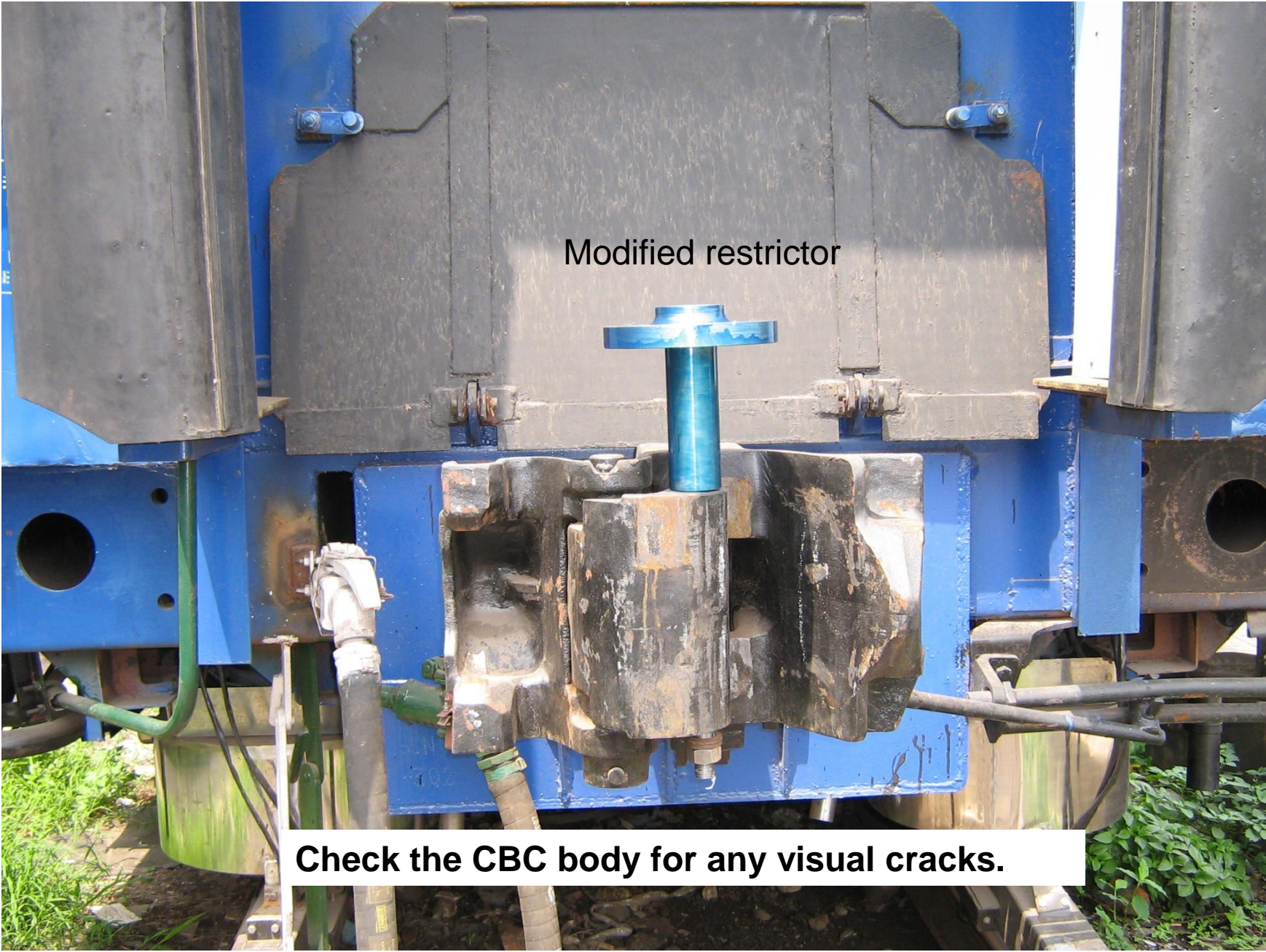
Check the condition of SLR knuckle, knuckle pin and lock by opening and closing the knuckle for free movement



CBC height, must be from 1230 mm to 1245 mm (to be taken from rail level to top of the knuckle) knuckle height is 280 mm

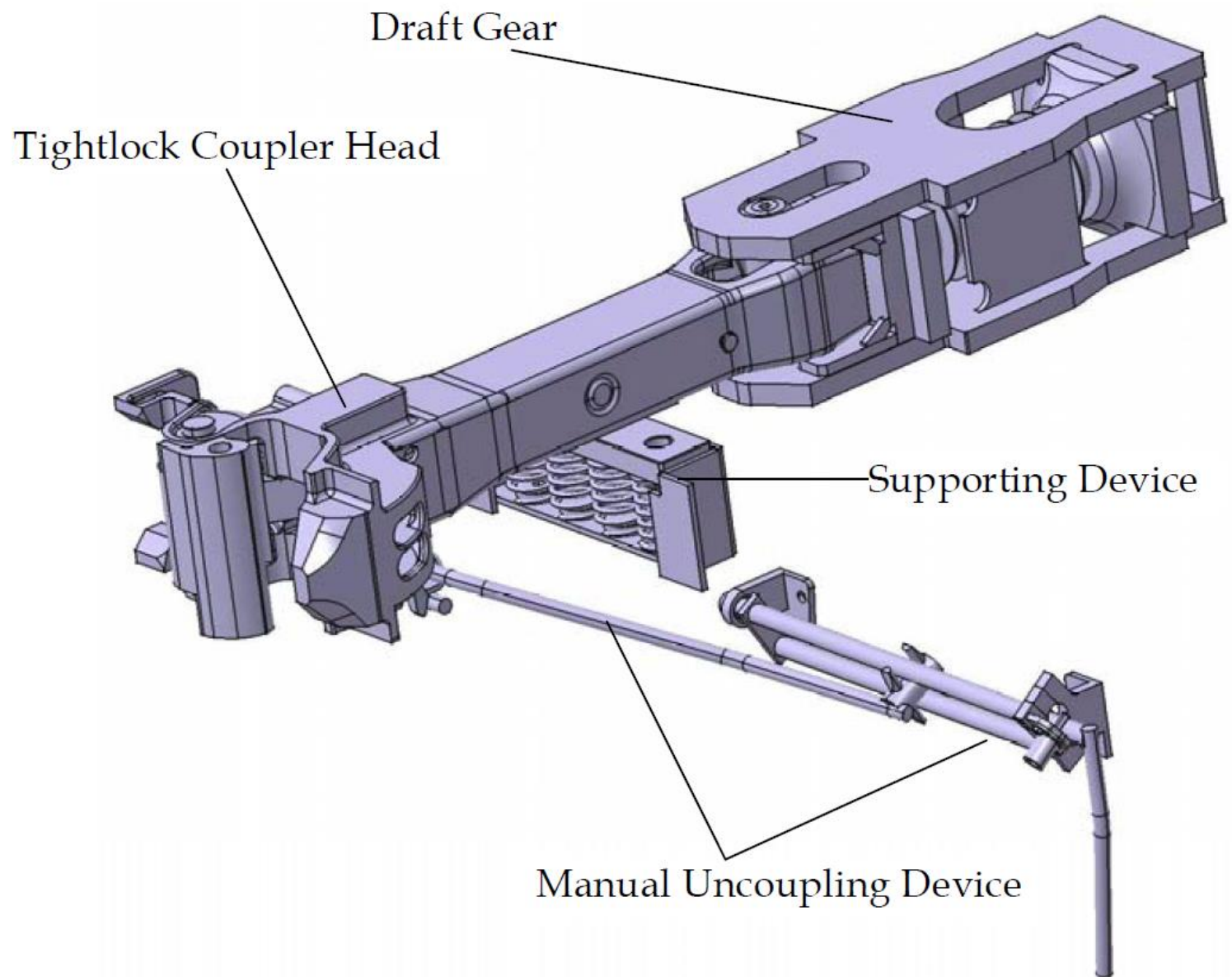


Measure CBC Height of SLR/VPH (it should be 1105^{+0}_{-15} mm in empty condition)



Modified restrictor

Check the CBC body for any visual cracks.





Complete fitment of CBC

Ensure proper condition & functioning of CBC's manual uncoupling device and its locking arrangement (locking piece) by using female square slotted key



Use 6 mm Allen key, 13 mm D/E flat spanner for maintenance



Use 8 mm Allen key for maintenance

Locking
piece



- a. Tell-Tale sign. Inverted 'V' should be clear of obstruction
- b. Rotary lever in vertical position
- c. Cross pin (Diameter-18 mm) to ensure full coupling of CBC

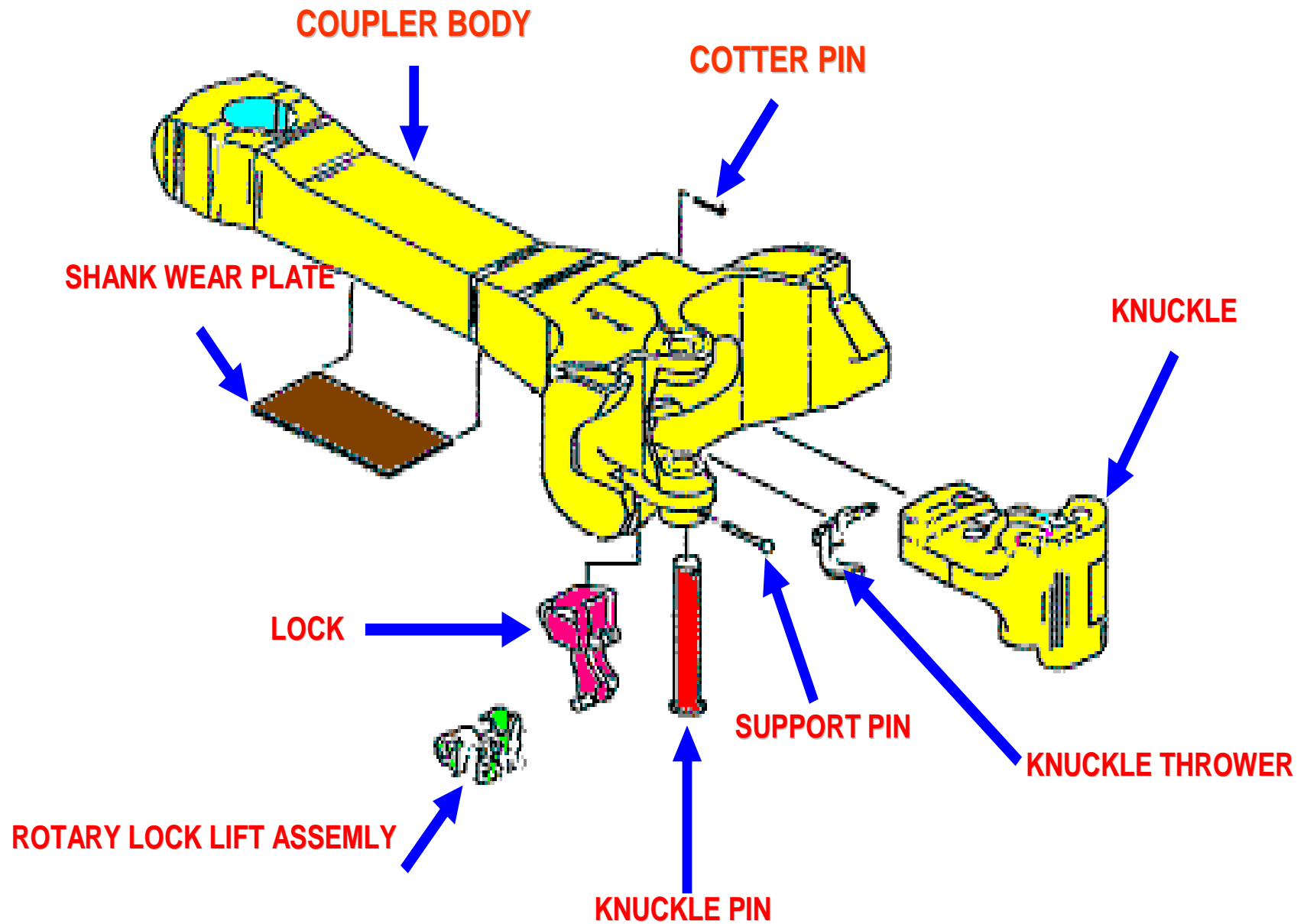


Apply grease on
this area

Ensure proper condition of supporting device for its securing fastenings



Key for opening of manual uncoupling device Locking mechanism is provided for operating lever to ensure perfect locking of operating rod.



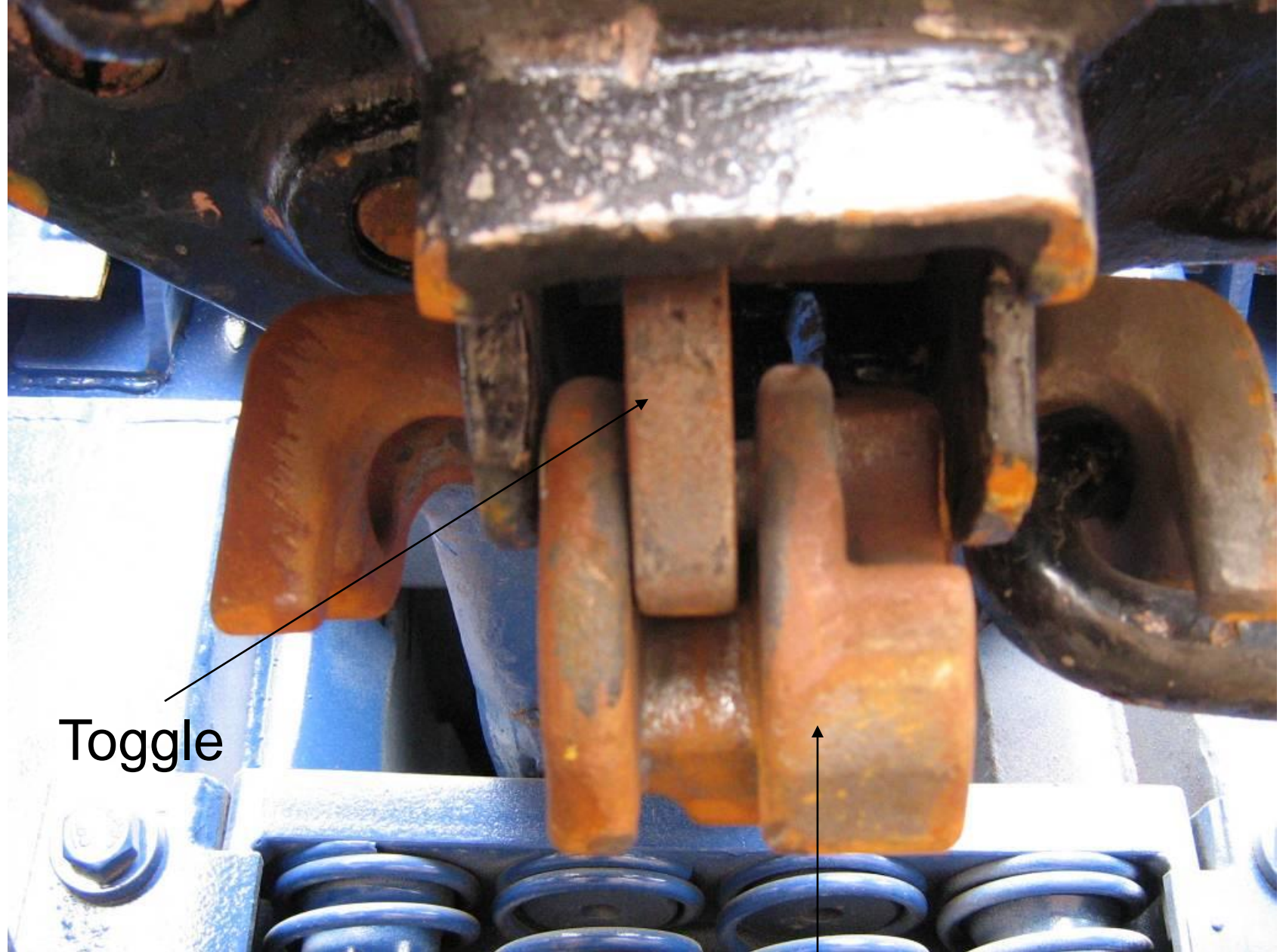
Knuckle Pivot Pin





Lock

Toggle



Toggle

Double rotary lift assembly



Knuckle mating surface



Shim to be provided to reduce gap
between CBCs

For changing of shim 36 mm in SLRs box spanner is required



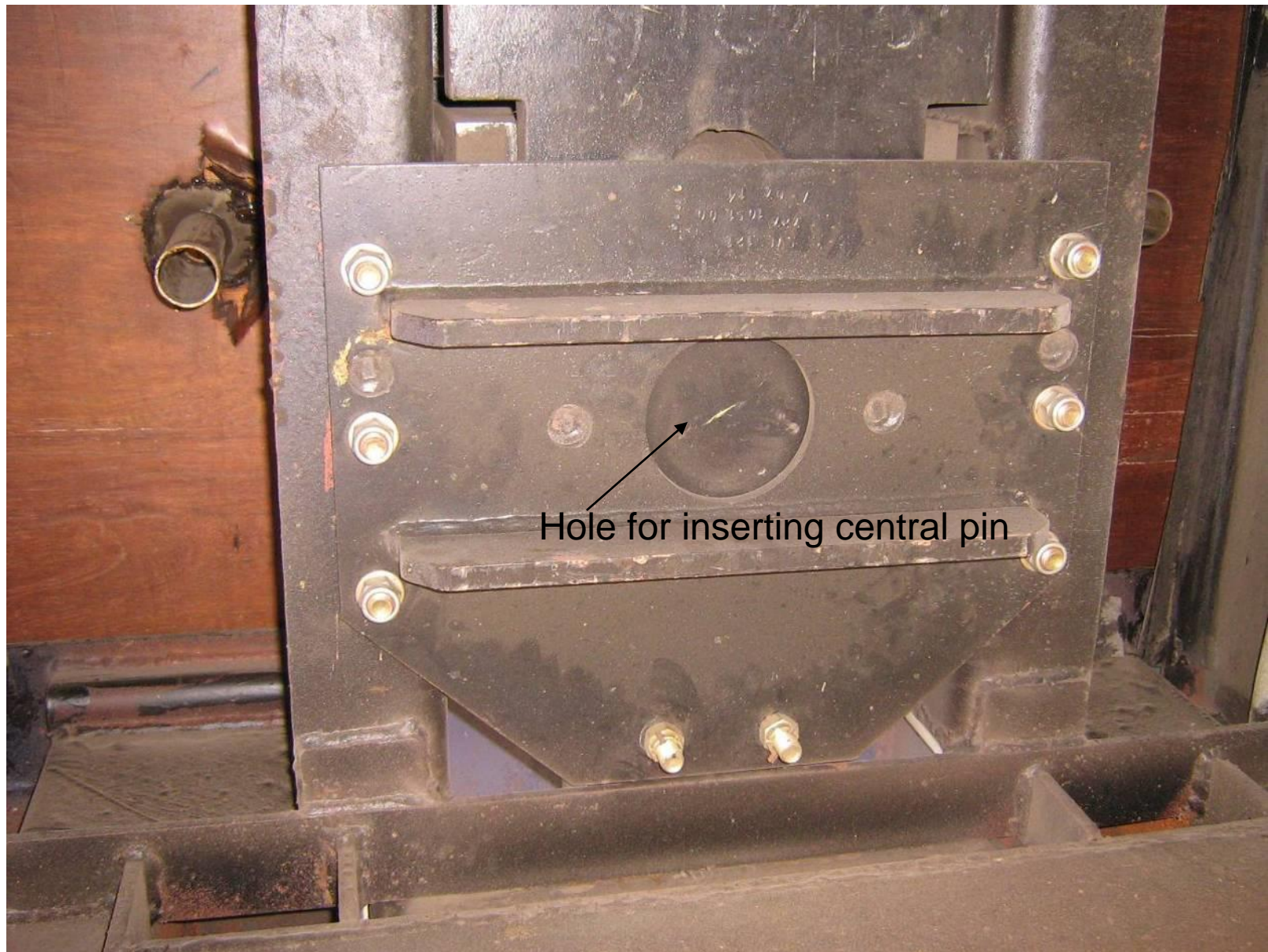
Shim



Restrictor



Escort Make Locking Piece Sub Assembly



CBC central pin supporting **base plate** and tighten with 16x50 mm nut and bolt (use 24 mm spanner)



CBC draft gear support plate and tighten with 16x50 mm nut and bolt
(use 24 mm socket spanner)

The image shows a mechanical puller assembly. It consists of a horizontal metal plate with two long, threaded rods passing through it. The rods are secured with hexagonal nuts at both ends. The assembly is mounted on a larger, rusted metal structure. The text "Puller for opening of central pin" is overlaid on the image.

Puller for opening of central pin



Backlash compensation device (UIC Linkage assembly)



Spring Cartridge Assy

Side bolts hole (insert side bolts for mounting)

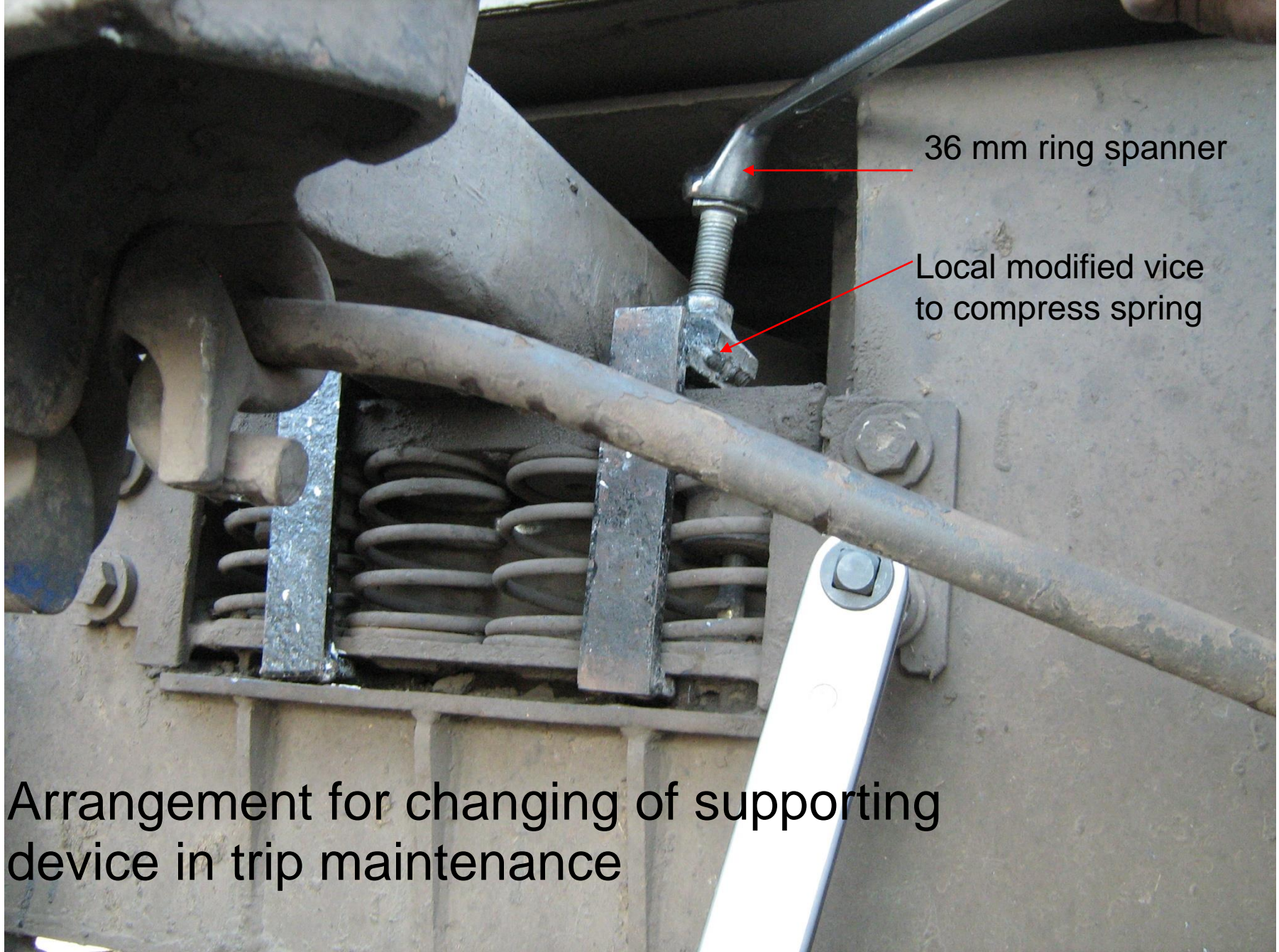
CBC shank wear plate (to be checked)



Preloaded compression springs, FTIL make (to be checked) and special type **Allen bolt** must be checked).

14 mm allen key & 19 mm socket spanner is required for FTIL Make.

17 mm allen key & 24 mm socket spanner is required for Escort Make



36 mm ring spanner

Local modified vice
to compress spring

Arrangement for changing of supporting
device in trip maintenance

**CBC supporting device to be opened by 30 mm box spanner with torque
wrench ($450 \pm$ N-m)**



Inspector Contour Gauge-I (Profile Gauge)

Gauge must pass through contour with knuckle fully closed and locked condition.



Inspector Contour Gauge-II (Jaw Gap Gauge)

Gauge must not pass and knuckle fully closed and locked condition



During coupling of CBC it must ensure position of CBC, it must be in center position and coupling of CBC should not be done in the curvature of track



Difference of height between CBC's more than 75 mm is not allowed

Don'ts

Do not apply grease on parts like lock, lock lift assembly, and knuckle.

Do not hammer lock lift assembly.

Do not tie rotary lever and operating lever hook with binding wire.



CBC Central pin base plate along with axial stiffner plate punctured



Central pin base plate and axial stiffener plate shown separately. The punctured hole on axial stiffener plate matching with existing hole on base plate allowing central pin to drop down wards causing coupler body to come out and parting.



Parting took place towards CEN end of the coach where the axial stiffener plate fully punctured and a hole formed. The axial stiffener plate on VSKP end of the coach also removed for inspection. It may be seen that the development of hole is in the formative stage due to **rubbing and hitting** of yoke pin which is a potential case for parting.



The silent block bush of coupler body CEN end of coach rubber bonding is completely given up due to which sleeve worked out as shown above.

The silent block of coupler body VSKP end also given up partially as shown above.