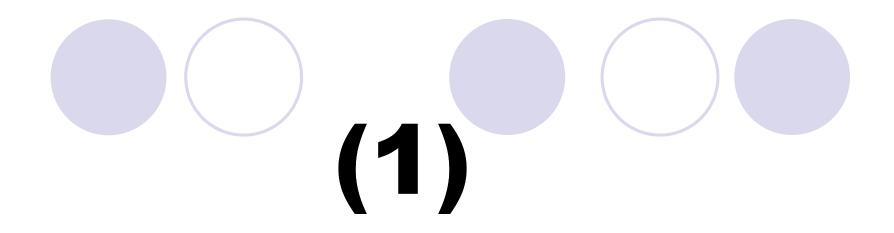
APPLICATION OF CBC HEAD PROFILE GAUGES ON HIGH TENSILE AAR TYPE 'H' TIGHT LOCK CENTRE BUFFER COUPLER



LIST OF CBC PROFILE GAUGES

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- 1. Aligning wing limit gauge
- Vertical height aligning wing pocket and guard arm gauge (go gauge)
- 3. Vertical height condemning limit aligning wing pocket and guard arm gauge (no-go gauge)
- 4. Contour maintenance gauge
- 5. Knuckle nose wear and stretch limit gauge
- 6. Contour condemning limit gauge



COUPLER WING LIMIT INSPECTION GAUGE





COUPLER WING LIMIT GAUGE

Usage: This gauge is used to inspect

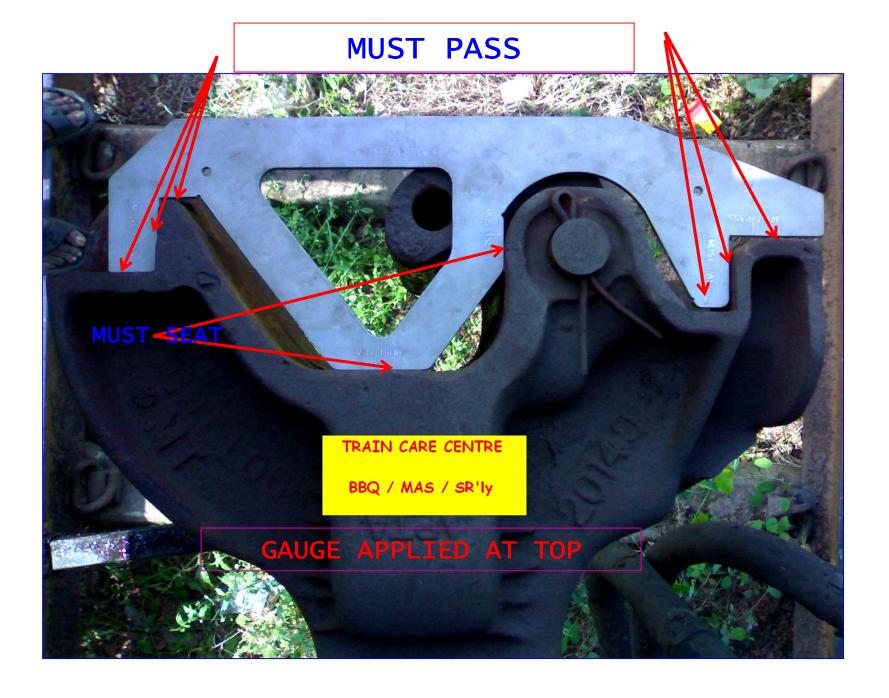
for excessive distortion of

aligning wing and/or guard arm of

coupler head.

COUPLER WING LIMIT INSPECTION





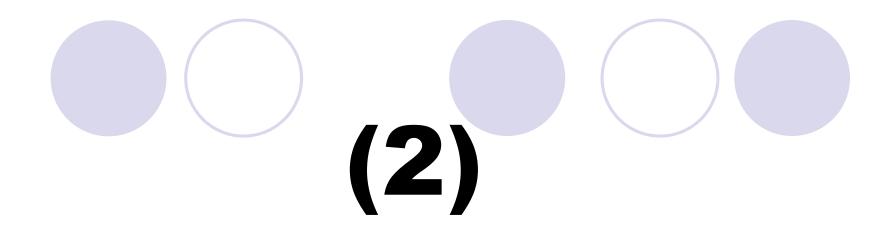
GAUGE APPLIED AT BOTTOM



Description: The gauge must seat against the front face of the coupler head and the pivot lug and clear at all points around the interlocking lug guard arm face and lateral aligning surface.

If the gauge does not seat or clear at the proper locations, there is excessive wear to the front face and pivot lug or distortion to the guard arm or interlocking lug.

Remedy: In this condition the coupler head must be replaced.



VERTICAL HEIGHT ALIGNING WING POCKET

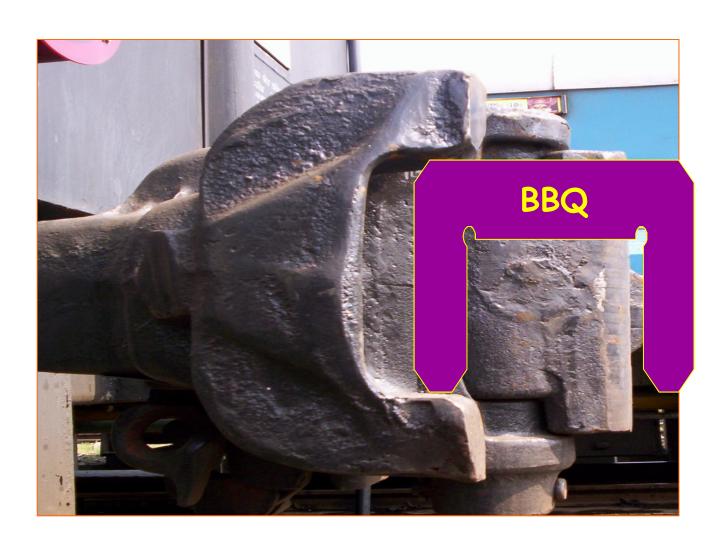
AND

GUARDARM GAUGE (GO GAUGE)

VERTICAL HEIGHT ALIGNING WING POCKET AND GUARDARM GAUGE (GO GAUGE)

Usage: This gauge is used to inspect for excessive distortion of vertical aligning wing and / or guard arm of the coupler head.

VERTICAL HEIGHT ALIGNING POCKET GAUGE (GO GAUGE)



VERTICAL HEIGHT GUARD ARM GAUGE (GO GAUGE)

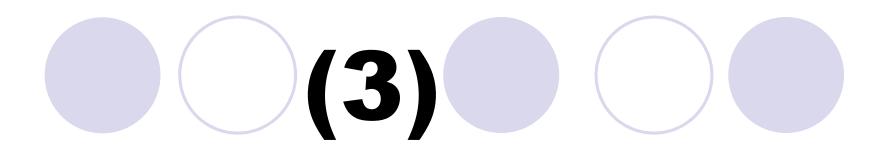


GUARD ARM SIDE VIEW

Description: The gauge must pass (slide into) the wing pocket and over the guard arm.

If the gauge does not pass, there is a vertical distortion to the wing pocket and / or guard arm.

Remedy: In such event, the coupler head must be replaced.



VERTICAL HEIGHT CONDEMNING LIMIT ALIGNING WING POCKET **AND GUARD ARM GAUGE** (NO-GO GAUGE)

VERTICAL HEIGHT CONDEMNING LIMIT ALIGNING WING POCKET AND GUARD ARM GAUGE

Usage: This gauge is used to check

for wear of aligning wing and guard

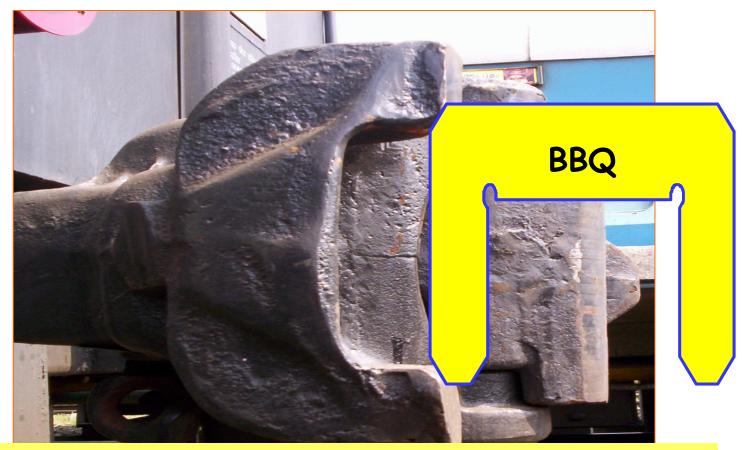
arm (but not distortion of the

coupler head).

VERTICAL HEIGHT CONDEMNING LIMIT ALIGNING WING POCKET AND GUARD ARM GAUGE (NO-GO GAUGE)



VERTICAL HEIGHT CONDEMNING LIMIT ALIGNING WING POCKET GAUGE (NO-GO GAUGE)



Elevation - aligning wing pocket side



VERTICAL HEIGHT CONDEMNING LIMIT GUARD ARM GAUGE (NO-GO)

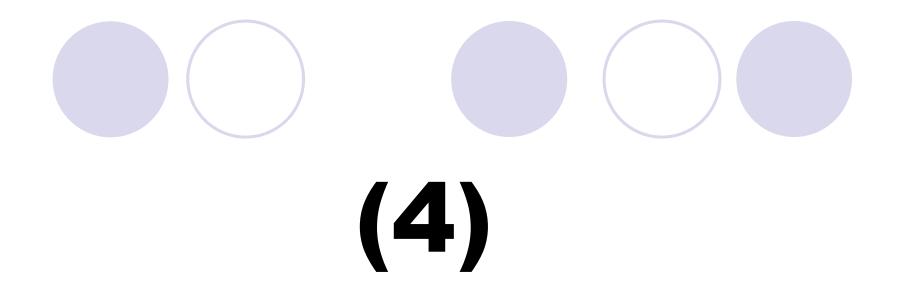




Description: The gauge must not pass into the wing pocket or over the guard arm.

Gauge passing is an indication of excessive wear to the interlocking surfaces of the wing pocket or over the guard arm.

Remedy: In this event the coupler head must be replaced.



CONTOUR MAINTENANCE GAUGE

CONTOUR MAINTENANCE GAUGE



CONTOUR MAINTENANCE GAUGE

Usage: This gauge is used to inspect the correctness of the contour.

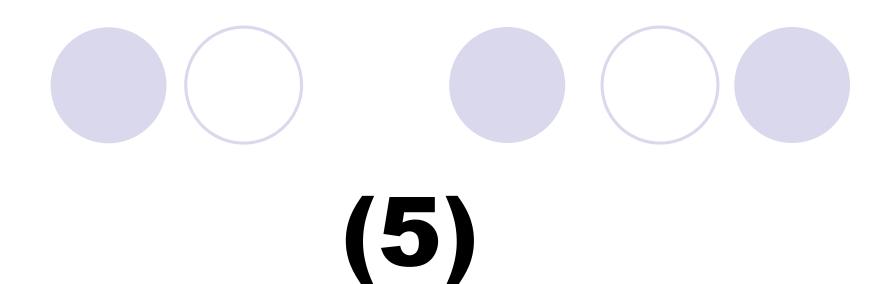


Description: This gauge must pass through the contour with the knuckle fully closed and locked.

The gauge must be seated against the front face of the coupler head.

If not it is an indication of excessive wear to the front face of the coupler or stretched knuckle.

Remedy: In this case remove and inspect the knuckle, using knuckle nose wear and stretch limit gauge.



KNUCKLE NOSE WEAR
AND

STRETCH LIMIT GAUGE

KNUCKLE NOSE WEAR AND STRETCH LIMIT GAUGE

Usage: This gauge is used to check

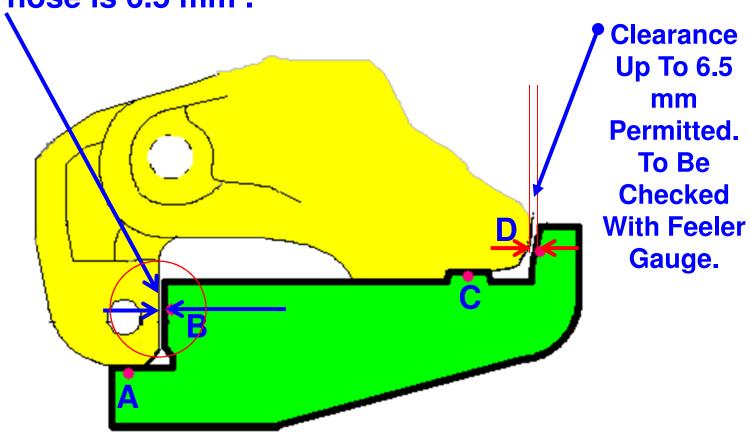
for excessive wear on the nose of

the knuckle and for any stretch.





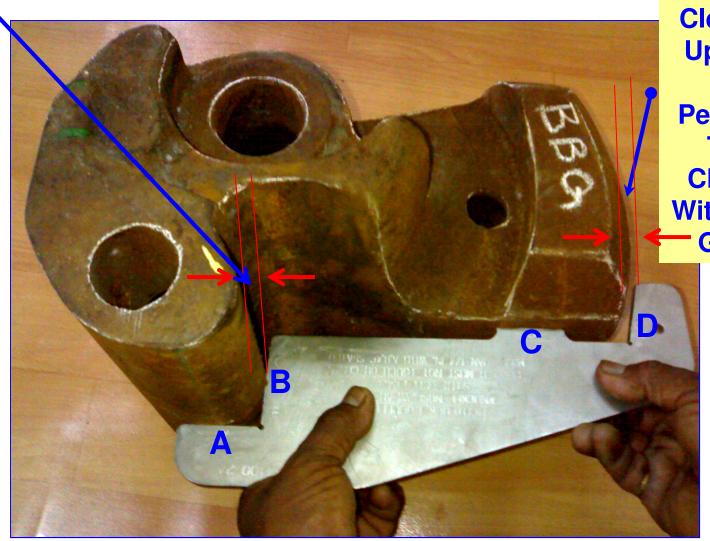
The permitted wear at the nose is 6.5 mm.



D does not touch or clear more than 1/4". A,B and C seated

D does not touch or clear more than 1/4". A,B and C seated

The permitted wear at the nose is 6.5 mm.



Clearance
Up To 6.5
mm
Permitted.
To Be
Checked
With Feeler
Gauge.

Description: Verify that points A, B, C of the gauge seat on the knuckle and that point D does not touch or clear more than 4".

Remedy: If the points do not touch or clear properly, replace the knuckle.



(6)

CONTOUR

CONDEMNING LIMIT GAUGE

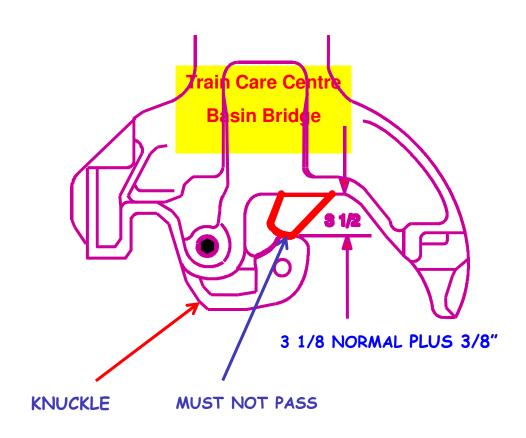
CONTOUR CONDEMNING LIMIT GAUGE

Usage: This gauge is used to

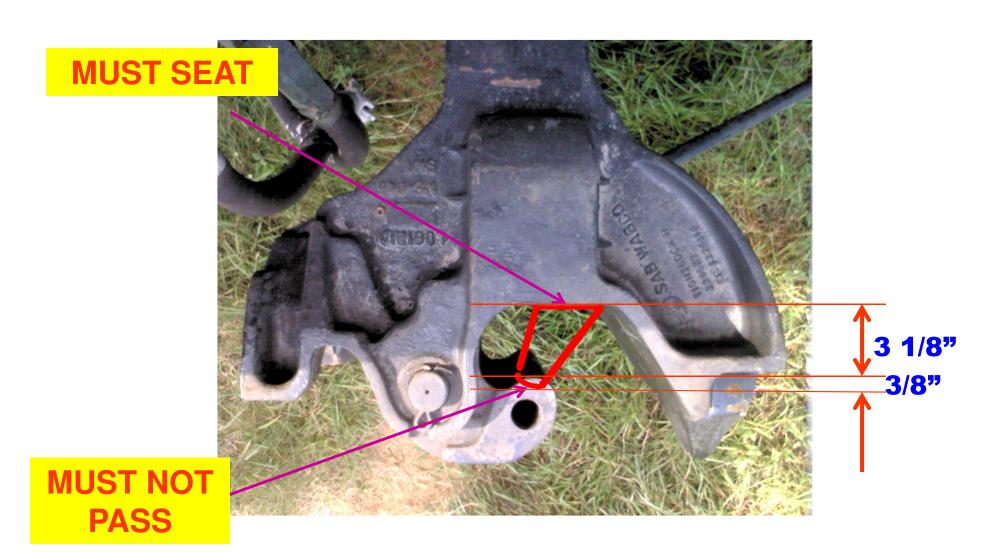
inspect limit of contour slack

(limit has been set at 3/8").

CONTOUR CONDEMNING LIMIT GAUGE



CONTOUR CONDEMNING LIMIT GAUGE



Description: First close the knuckle and then pull slack of knuckle out towards you. Insert the gauge. The gauge must not pass between the front face of the coupler head and the pulling face of the knuckle.

Remedy: If the gauge does pass, remove the knuckle and inspect once more for wear.

- If the knuckle is worn, replace the knuckle.
- While the knuckle pin is out of the coupler, inspect the knuckle pivot pin and pivot pin hole for excessive wear.
- If the knuckle pivot pin is worn, replace it.
- If the knuckle, pivot pin and pivot pin hole are in acceptable condition, the lock could be worn and should be replaced.
- Also, the front face of the coupler could have excessive wear and coupler shank should be replaced if found.



(7)

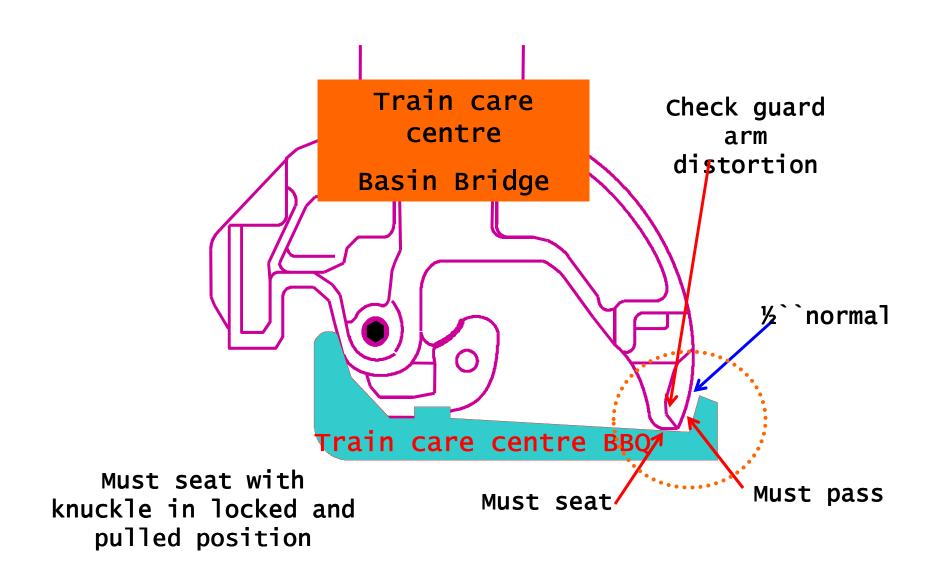
GUARD ARM DISTORTION INSPECTION

GUARD ARM DISTORTION INSPECTION

Usage: The Guard Arm Distortion Gauge

is used to check distortion of the

guard arm.



GUARD ARM DISTORTION INSPECTION

Description: To inspect for distortion of guard arm, the knuckle must be in pull position. When properly applied, the gauge must seat on the knuckle, and the front of guard arm. The right side of the gauge must clear the right side of the guard arm.

Remedy: If the gauge does not clear the

right side of the guard, the guard arm or

pin protector boss is distorted or bent,

and the coupler should be replaced.



THANK YOU