

FW17 Wear limits

Lock Adjustment

Horizontal Movement: If the horizontal (fore and aft) movement between the fifth wheel locking mechanism and a Holland lock tester exceeds $\frac{1}{4}$ " (6.4mm) the fifth wheel requires adjustment. If no more adjustment can be achieved, the lock jaws require replacement.

For driver comfort, not safety, if the play in the locks exceeds 1.5mm, then the adjuster pin should be moved to the next notch. The amount of adjustment between each adjustment notch is approximately 0.7 mm. If the adjuster pin is in the 3rd position and there is 1,5mm play, the jaws should be replaced and the lock pins inspected for wear.. From a safety point of view, there is no specified maximum play. The kingpin will stay coupled. So we do not specify a "maximum permissible play."

Wear limits

Maximum wear on the top plate is when the bottom of the grease grooves has been reached, or the bottom of the groove in the No Lube pads has been reached for the FW17 EK.

Vertical Movement Between Top Plate & Bracket: When $\frac{3}{8}$ " (9.5 mm) free upward movement is detected, the pocket inserts should be replaced.

Bracket Pin: When new there can be a difference of 0.055" (1.4 mm) between the diameters of the bracket pin and the hole in the fifth wheel top plate.

Bracket Pin Out-Of-Service Criteria: Holland's out of service condition is $\frac{1}{8}$ " (3.1 mm). This measurement is the difference in the diameter of the hole in fifth wheel top plate and a new bracket pin.

Lock Jaw & Hook Pin Holes: The lock jaw and hook pin holes in the XA-171 series top plate are a "loose" fit. When new the top plate may have 0.014" (0.35 mm) clearance between the pins and the hole in the casting.

Lock Jaw Pin Out-Of-Service Criteria: Holland's out-of-service condition is more than .045" (1.1 mm). This measurement is the difference in the diameters of the holes in the fifth wheel top plate and a new lock jaw or adjusting pin.

Sliding Brackets: This will be the same as the other wheels ($\frac{3}{8}$ " (9.5 mm) movement horizontal or vertical).

Top surface wear: Yes, max permissible wear on top plate would be to bottom of grease grooves. With the lube plates, they can wear all the way down until the perforated steel plate is showing or until the bolster plate is contacting the outside edge of the casting, whichever comes first.

Pocket Inserts: 2 mm minimum wall thickness also.