

# FIETH WHEELS

## SIMPLEX® SERIES & CASTLOC® SERIES Jaw Removal and Replacement

**Note:** Holland Simplex Adjustment Tool is part number 4000171.

Check the components of this package. The following parts should be included in this kit. If you didn't receive an item, please contact your dealer or distributor.

Part Description	Qty.
Internally Lugged Jaw	1
Jaw Spring	1
Eccentric Jaw Pin	1
Clinch Pin	1

### Disassembly

1. Lock the jaw mechanism using a bar (*Figure 1*).



*Figure 1*

**CAUTION** The lock is spring-loaded. To avoid injury, keep hands away from lock and jaw. Use a bar to rotate jaw when opening or closing the locking mechanism. When locking the jaw, stand clear of the extended operating rod, as it retracts rapidly.

2. Remove the clinch pin, (*Figure 2*) and remove the eccentric jaw pin.



*Figure 2*

3. Slide the jaw away from the lock and remove from the underside of the fifth wheel plate (*Figure 3*).



*Figure 3*

### Assembly

1. Clean and lubricate the fifth wheel plate jaw area and the replacement jaw.
2. Reassemble the parts in the reverse order of disassembly. **NOTE: Position the eccentric jaw pin with its arrow pointing to the arrow on the fifth wheel plate.**

3. Reinstall the clinch pin.

4. Unlock the fifth wheel by pulling the operating rod out to the extended (lockset) position, and use a bar to rotate the jaw to the open position (*Figure 4*).



*Figure 4*

5. Ram a kingpin gauge (Holland #4000171) into the open jaw to achieve a coupled and locked condition (*Figure 5*). The safety indicator must swing freely over the operating rod (*Figure 6*).



*Figure 5*

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Figure 6

6. Measure the horizontal gauge movement. The gauge kingpin must be flat on the wheel.

7. If clearance exceeds 1/8" (3/32" for SE wheels), it should be **DIALED OUT** using the eccentric jaw pin on which the jaw pivots.



Figure 7

a. With the kingpin gauge still locked in the fifth wheel and the jaw in the locked position, rotate the kingpin gauge, if necessary, until the cutout in the gauge is in a position to allow access to the eccentric jaw pin (Figure 7).

b. Remove the clinch pin from the eccentric jaw pin (Figure 2).

c. Lift the eccentric jaw pin sufficiently to clear the indexing head (Figure 8), and rotate the pin to the next higher number position in a



Figure 8

**clockwise** direction for left-hand wheels, and **counter clockwise** direction for right-hand wheels.

**CAUTION** DO NOT rotate the eccentric jaw pin beyond the last numbered position (3 on Simplex and Castloc fifth wheels or beyond position 4 on Simplex SE series fifth wheels). If more than 1/8" clearance remains at the final position, replace the jaw and eccentric jaw pin. ALWAYS recheck using a gauge to assure that a positive lock can be achieved. Remember to

secure the eccentric jaw pin by installing a clinch pin. DO NOT overadjust, or the fifth wheel will not lock to a kingpin. If excessive wear occurs in the top plate eccentric jaw pin cavity, an oversize eccentric jaw pin for non-SE models (left-hand jaw kit 4000502 and right-hand jaw kit 4000523) can be used.

d. Remeasure the clearance at the kingpin. If the clearance remains excessive, repeat Steps 7a-7d until the clearance allows a 1/16" drill bit between the kingpin gauge and the throat of the fifth wheel. This clearance is necessary for proper locking and to accommodate SAE kingpin tolerances.

e. After the final adjustment, reinstall the clinch pin in the eccentric jaw pin.

f. Remove the gauge\*. When removing the gauge two people are usually needed. The operating rod must be extended and held out beyond lockset, while the gauge is pulled straight back out of the fifth wheel (Figure 9).

Considerable force may be required for removal.

g. Check for a positive locking condition by coupling to a trailer, equipped with a new kingpin, several times. For complete instructions, see the operating instructions XL-FW458. Also see the tag affixed to the side of the fifth wheel near the operating handle and the driver's card that is furnished with each fifth wheel.



Figure 9

\*The kingpin gauge (Holland part number 4000171) is used to test fifth wheel coupling. It is not to be used to test uncoupling or to lift the fifth wheel.

Reference documents on Holland's website:  
 XL-FW458, Fifth Wheel Operating Instructions  
 XL-FW477, Jaw Identification  
 XL-FW499, Jaw Measurement Procedures

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