



Holden Grip-Lock™ Chock Inspection and Repair Standards: Procedure and Examples (April 2016)

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A. Upperside Components

All major plastic chock components, namely the Base, Platform, Flip-Face, Cover, Operating Lever Shaft and Handle and Lifting Handle and Side Lugs, should be examined for cracks, fractures and visible deformations. (See Figure 1 for component nomenclature). If defects are found, then the chock is considered to be non-functional and must be repaired or replaced as outlined in the following sections.

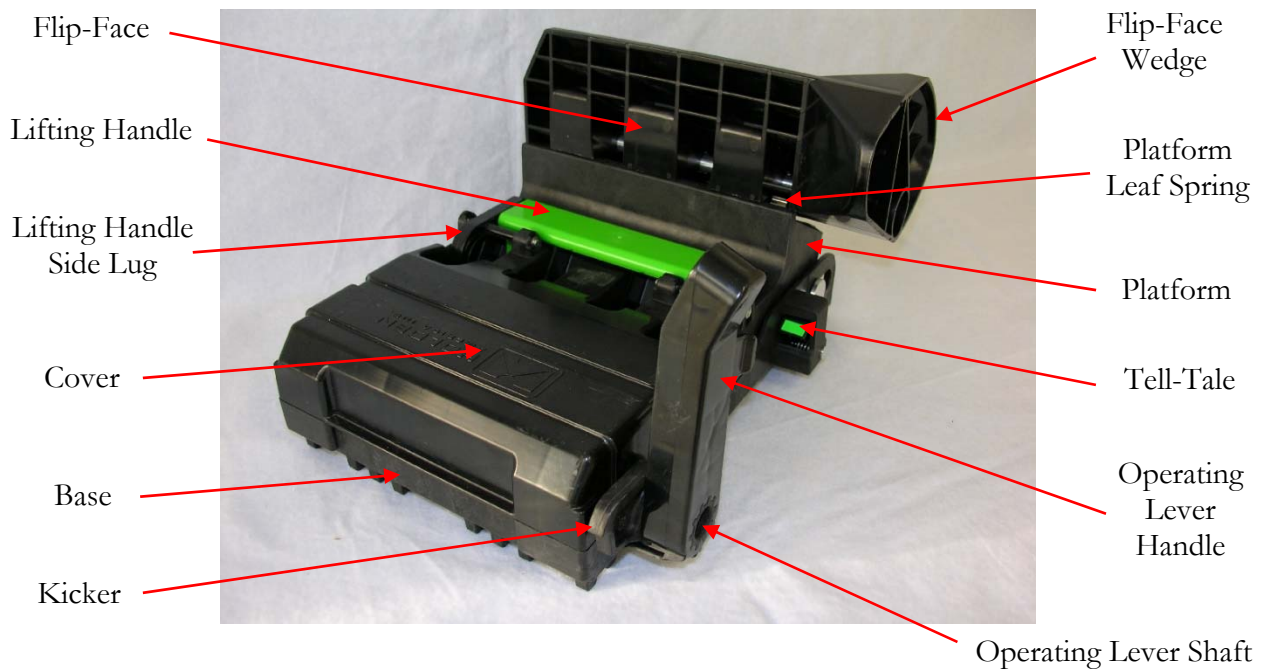
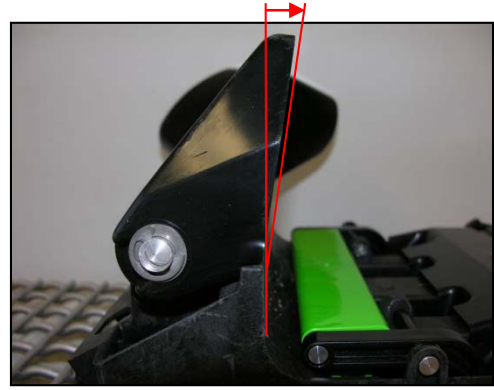


Figure 1: Upperside Component Nomenclature

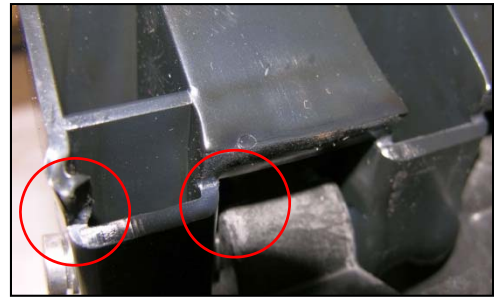
- a) When flipped in high position, the Flip-Face rear side should be approximately vertical. (See Figure 2a). If not and/or the Flip-Face does not rotate freely, the chock is considered to be non-functional. It must be replaced and sent for reconditioning.

Figure 2a: Flip-Face Rear Side Not Vertical



Additional evidence of this problem would be deformed Flip-Face ribs on the lower portion of Flip-Face rear side. (See Figure 2b).

Figure 2b: Flip-Face Ribs Deformed



- b) The Flip-Face Wedge (see Figure 3) should not be deformed. If it is, the chock is considered to be non-functional and the Flip-Face must be replaced. This repair can be performed in the field.

Figure 3: Flip-Face Wedge



- c) The Flip-Face high/low position locating lug (see Figure 4) should not be deformed or broken off. If it is, the chock is still considered to be functional. However, the Flip-Face should be replaced at first opportunity. This repair can be performed in the field.

Figure 4: Flip-Face Lug



- d) The Platform Leaf Spring (see Figure 5) should not be broken or missing. If it is, the chock is still considered to be functional. However, the chock should be replaced at first opportunity and sent for reconditioning.

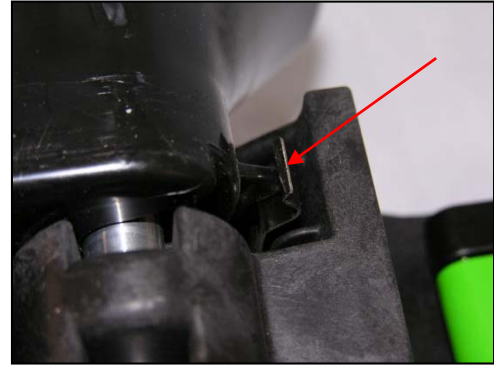


Figure 5: Platform Leaf Spring

- e) The Platform front shelf should not be broken. (See Figure 6). If it is, then the chock is still considered to be functional. However, the chock should be replaced at first opportunity and sent for reconditioning.



Figure 6: Platform Front Shelf Shown Broken

- f) The Operating Lever Handle should not be deformed. (See Figure 7). If it is, the chock is considered to be non-functional and the Operating Lever Handle must be replaced. This repair can be performed in the field.



Figure 7: Operating Lever Handle Shown Bent

- g) The Operating Lever Handle clips should not be disengaged, bent or broken. (See Figures 8a and 8b). If one clip is damaged, the chock is still considered to be functional. However, the Operating Lever Handle should be replaced at first opportunity. If both clips are damaged, the chock is considered to be non-functional and the Operating Lever Handle must be replaced. This repair can be performed in the field.



Figure 8a: Operating Lever Handle Clip Bent

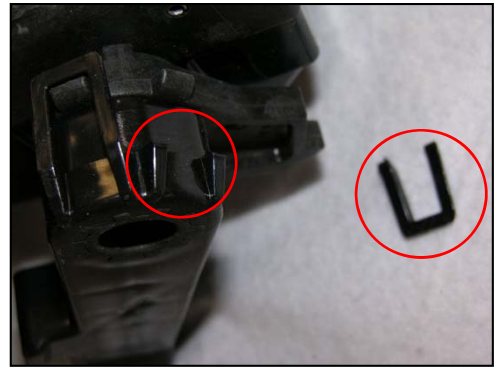


Figure 8b: Operating Lever Handle Clip Broken

- h) The Operating Lever Shaft kicker should not be broken. (See Figure 9). If it is, the chock is considered to be non-functional. It must be replaced and sent for reconditioning.



Figure 9: Operating Lever Shaft Kicker Broken

- i) The Lifting Handle and/or Side Lugs should not be broken, disengaged or missing. (See Figure 10). If any is, the chock is still considered to be functional but the Lifting Handle and/or Side Lugs should be replaced at first opportunity. This repair can be performed in the field.

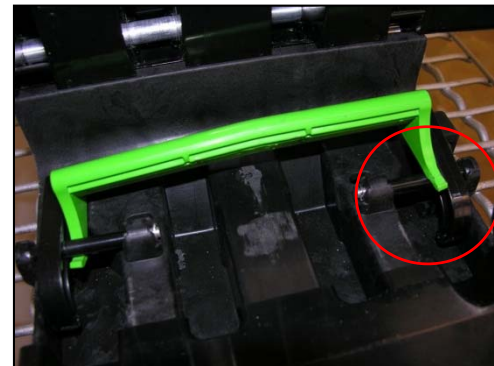


Figure 10: Lifting Handle Shown Disengaged

B. Side View Components

All components of the chock should be checked to ensure they are not missing, and have not been deformed or otherwise damaged. (See Figures 11a and 11b).

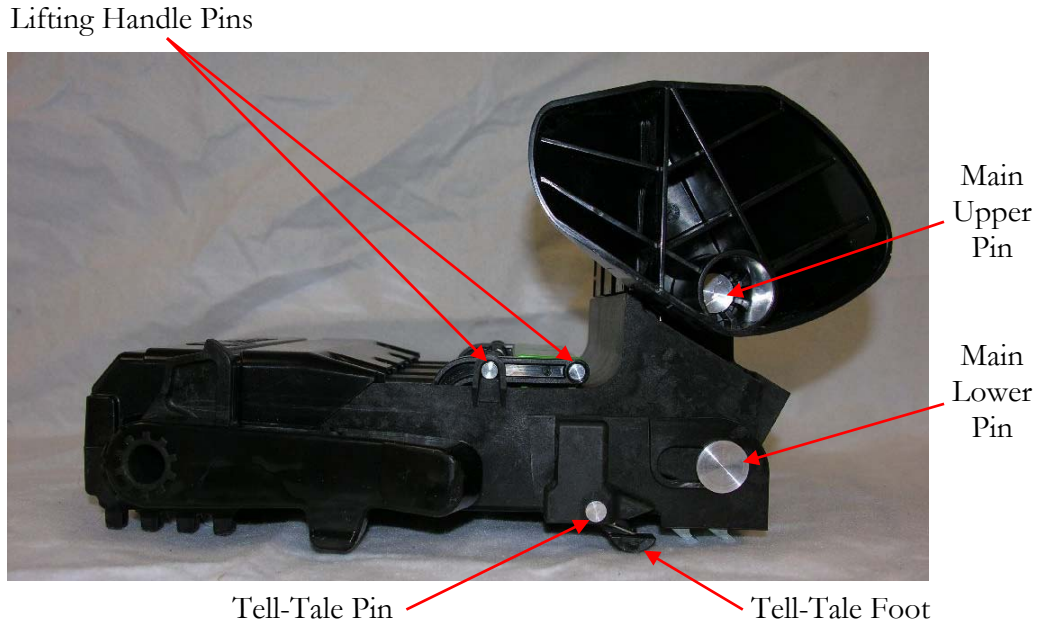


Figure 11a: Field Side Component Nomenclature

Main Pin Retaining Rings & Washers



Figure 11b: Inboard Side Component Nomenclature

- a) The Lifting Handle Pins and Retaining Rings should not be missing. (See Figure 12). If any of the hardware is missing, the chock is still considered to be functional but the missing hardware should be replaced in kind at first opportunity. This repair can be performed in the field.



Figure 12: Lifting Handle Hardware Missing

- b) The Main Pin Washers and Retaining Rings should not be missing. (See Figure 13). If any of the hardware is missing, the chock is considered to be non-functional and the missing hardware must be replaced in kind. This repair can be performed in the field.

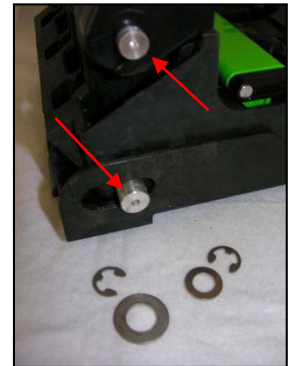


Figure 13: Main Pin Hardware Missing

- c) The Roll Pins should not be missing, protruding or recessed. (See Figures 14a and 14b). If any pin is missing or protruding by more than 1/8" or is recessed by more than 1/16", the chock is considered to be non-functional. It must be replaced and sent for reconditioning. If any pin is protruding by 1/8" or less, it must be **lightly** hammered in until flush with Base surface. This repair can be performed in the field.



Figure 14a: Roll Pin Protruding



Figure 14b: Roll Pin Recessed

C. Underside Components

All components of the chock should be checked to ensure they are not missing, and have not been deformed or otherwise damaged. (See Figure 15).

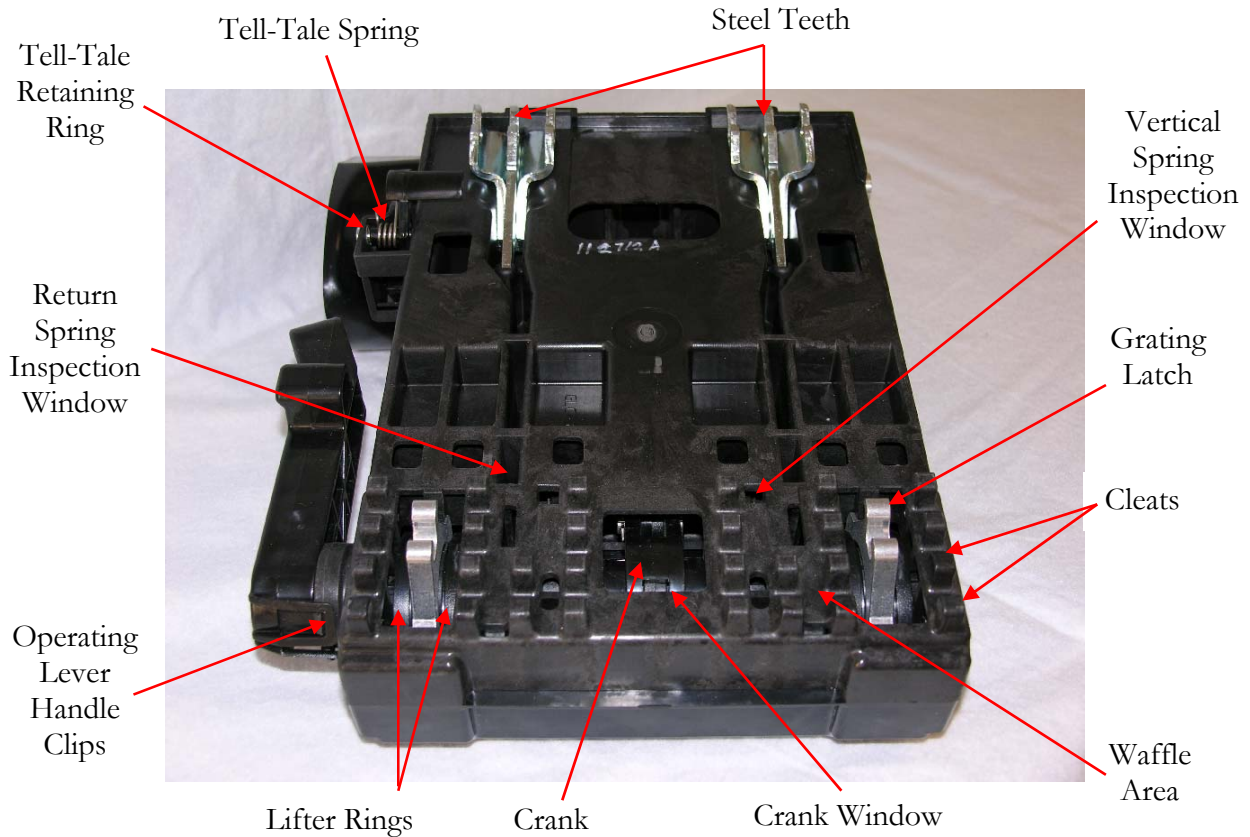


Figure 15: Underside Component Nomenclature

- a) The Grating Latch teeth should be checked for distortion or elongation. If either tooth is deformed or broken off (see Figure 16), the chock is considered to be non-functional. It must be replaced and sent for reconditioning.



Figure 16: Elongated Grating Latch Teeth

- b) All the cleats in the “waffle area” found on the chock underside should be straight. If two adjacent cleats or more than three cleats over the entire waffle area are missing (see Figure 17), the chock is considered to be non-functional. It must be replaced and sent for reconditioning.



Figure 17: Missing Cleats on Waffle Area

- c) The Steel Teeth Insert Assembly tail should be seated deep in the Base rear stop pocket. (See Figure 18a).

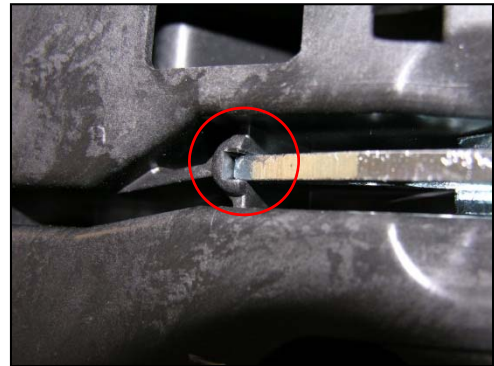


Figure 18a: Steel Teeth Tail in Pocket

If the tail sits on top of the rear stop (see Figure 18b), the chock is considered to be non-functional. It must be replaced and sent for reconditioning.



Figure 18b: Steel Teeth Tail not in Pocket

- d) The Steel Teeth tips should be straight. If adjacent tooth tips have been deformed (see Figure 19), the chock is considered to be non-functional. It must be replaced and sent for reconditioning.



Figure 19: Steel Teeth Shown Deformed

- e) The Tell-Tale foot should not be deformed or broken. (See Figure 20). If it is, the chock is considered to be non-functional and the Tell-Tale must be replaced. This repair can be performed in the field.

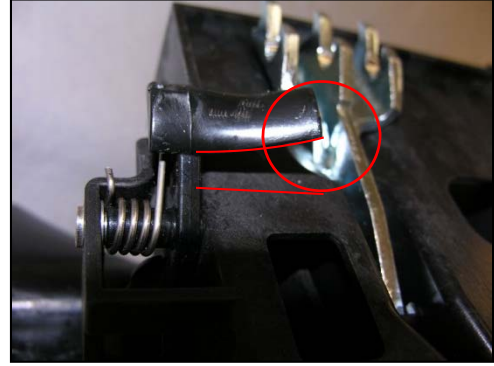


Figure 20: Tell-Tale Foot Shown Deformed

- f) The Tell-Tale spring ends should not be disengaged. (See Figures 21a and 21b). If one or both ends are not seated properly, the chock is considered to be non-functional and the spring ends must be re-engaged in their proper seat. This repair can be performed in the field.

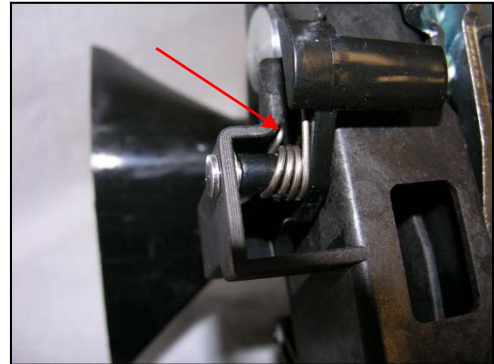


Figure 21a: Tell-Tale Spring End Disengaged

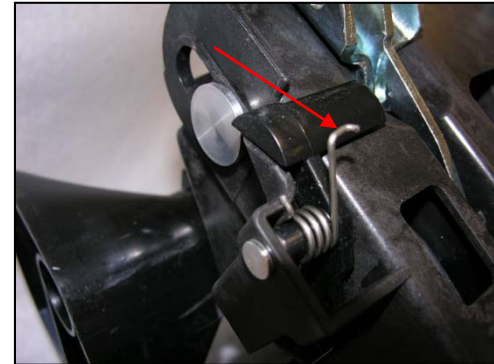


Figure 21b: Tell-Tale Spring End Disengaged

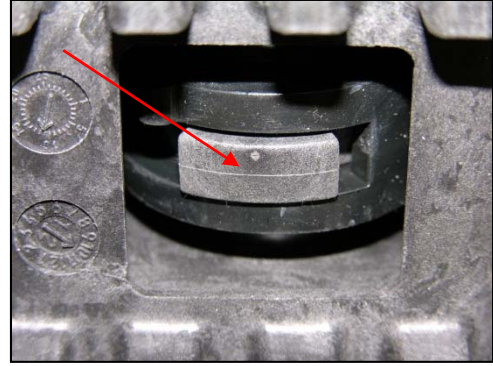
- g) The Tell-Tale Retaining Ring should not be partially seated or missing. (See Figure 22). If it is, the chock is considered to be non-functional and the Tell-Tale Retaining Ring must be pushed in until it seats properly or it must be replaced in kind if missing. This repair can be performed in the field.



Figure 22: Tell-Tale Retaining Ring Not Seated

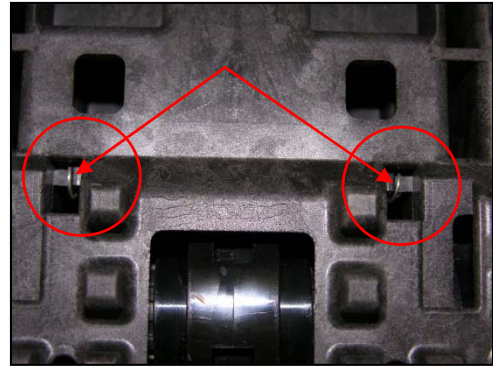
- h) The Crank Drive Ring knob (see Figure 23) must be visible in the Crank window. If it is missing (broken), the chock is considered to be non-functional. It must be replaced and sent for reconditioning.

Figure 23: Crank Drive Ring Knob



- i) The Vertical Spring loops must be engaged in the Base's internal hooks. (See Figure 24). If either spring loop is not visible in the Base inspection window, the chock is considered to be non-functional. It must be replaced and sent for reconditioning.

Figure 24: Vertical Spring Loops Shown Engaged



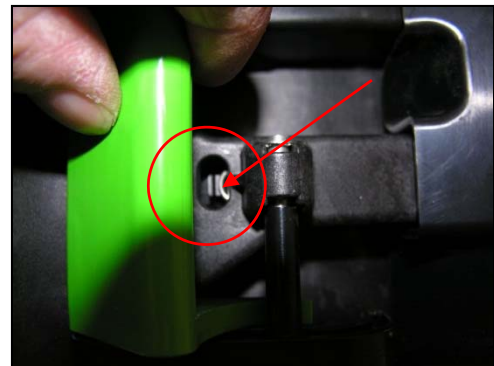
- j) The Return Spring loops must be engaged in the Base's internal hooks. (See Figure 25). If either spring loop is not visible in the Base inspection window, the chock is considered to be non-functional. It must be replaced and sent for reconditioning.

Figure 25: Return Spring Loops Shown Engaged



- k) The Return Spring loops must be engaged in the Platform's internal hooks. (See Figure 26). If either spring loop is not visible in the Platform inspection window under the Lifting Handle, the chock is considered to be non-functional. It must be replaced and sent for reconditioning.

Figure 26: Return Spring Loops Shown Engaged





HOLDEN GRIP-LOCK™ CHOCK REPAIR DECISION MATRIX

Chock Side	Article	Component	Defect Found	Is Chock Functional?	Recommended Repair Decision	Comments
A. Upperside Components	General	Any of the major plastic components	Cracks, fractures or visible deformations	No	Send for Reconditioning	
	a)	Flip-Face	Not vertical and does not rotate freely	No	Send for Reconditioning	
			Deformed ribs	No	Send for Reconditioning	
	b)	Flip-Face Wedge	Deformed	No	Repair in the Field	Order OEM Part.
	c)	Flip-Face high/low Lug	Deformed or broken off	Yes	Repair in the Field	Can be used as is but should be repaired at first opportunity. Order OEM Part.
	d)	Platform Leaf Spring	Broken or missing	Yes	Send for Reconditioning	Can be used as is but should be replaced at first opportunity.
	e)	Platform Shelf	Broken	Yes	Send for Reconditioning	Can be used as is but should be replaced at first opportunity.
	f)	Operating Lever Handle	Deformed	No	Repair in the Field	Order OEM Part.
	g)	Operating Lever Handle Clips	One clip bent or broken/missing	Yes	Repair in the Field	Can be used as is but should be repaired at first opportunity.
			Two clips bent or broken/missing	No	Repair in the Field	Order OEM Part.
	h)	Operating Lever Shaft Kicker	Broken	No	Send for Reconditioning	
	i)	Lifting Handle or Side Lugs	Broken, disengaged or missing	Yes	Repair in the Field	Can be used as is but should be repaired at first opportunity. Order OEM Part.



HOLDEN GRIP-LOCK™ CHOCK REPAIR DECISION MATRIX

Chock Side	Article	Component	Defect Found	Is Chock Functional?	Recommended Repair Decision	Comments
B. Side View Components	General	Main Upper Pin	Deformed or missing	No	Repair in the Field	Order OEM Part
		Main Lower Pin	Deformed or missing	No	Send for Reconditioning	
		Tell-Tale Pin	Missing	No	Repair in the Field	Order OEM Part
	a)	Lifting Handle Pins & Rings	Missing	Yes	Repair in the Field	Can be used as is but should be repaired at first opportunity. Order OEM Part.
	b)	Main Pin Washers & Rings	Missing	No	Repair in the Field	Order OEM Parts
	c)	Roll Pins	Protruding by more than 1/8", recessed by more than 1/16" or missing	No	Send for Reconditioning	
			Protruding by 1/8" or less	Yes	Repair in the Field	Lightly hammer Roll Pin until it is flush with Base
C. Underside Components	a)	Grating Latch Teeth	Deformed or broken	No	Send for Reconditioning	
	b)	Base Cleats	Two adjacent or three cleats over entire waffle area broken or missing	No	Send for Reconditioning	
			Any two non-adjacent cleats	Yes	Repair in the Field	Grip the cleat firmly with pliers and bend away from the Base



HOLDEN GRIP-LOCK™ CHOCK REPAIR DECISION MATRIX

Chock Side	Article	Component	Defect Found	Is Chock Functional?	Recommended Repair Decision	Comments
C. Underside Components (con't)			over entire waffle area broken			until it breaks off. Use a file to remove any residual shards.
	c)	Steel Teeth Tail	Tail not seated properly	No	Send for Reconditioning	
	d)	Steel Teeth	Adjacent tooth tips deformed	No	Send for Reconditioning	
	e)	Tell-Tale Foot	Deformed or missing	No	Repair in the Field	Order OEM Part
	f)	Tell-Tale Spring	Ends not seated properly or disengaged	No	Repair in the Field	Reseat Tell-Tale spring ends using long-nose pliers
	g)	Tell-Tale Ring	Partially seated or missing	No	Repair in the Field	Order OEM Part
	h)	Crank Drive Ring Knob	Broken or missing	No	Send for Reconditioning	
	i)	Vertical Springs	Loops not visible in inspection window	No	Send for Reconditioning	
	j)	Return Springs	Loops not visible in inspection window	No	Send for Reconditioning	
	k)	Return Springs	Loops not visible in inspection window	No	Send for Reconditioning	