

HOW THE DISPLAY WORKS

1. READY TO COUPLE

- A. The release handle is extended (see figure 1).
- B. The lock jaw is rotated with the opening facing the throat in the ready to couple position (see figure 2)
- C. The dash display JOST logo glows white (see figure 3).

(The dash display will dim out after a minute or two)

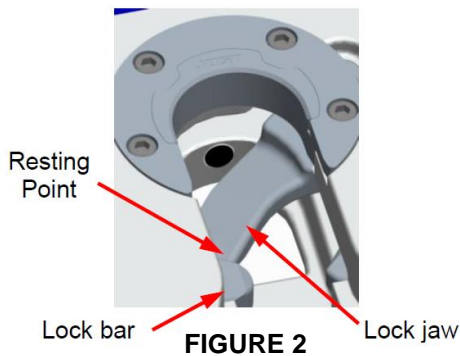


FIGURE 2

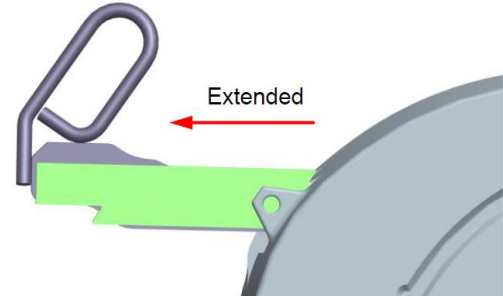


FIGURE 1

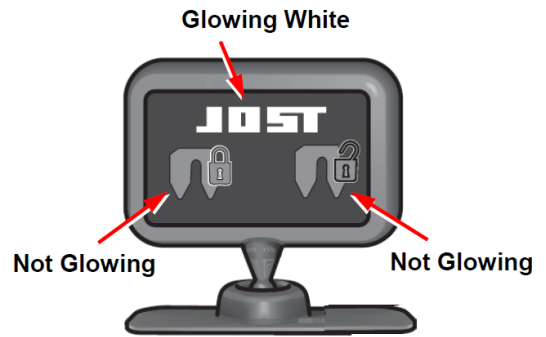


FIGURE 3

2. SAFELY COUPLED

- A. The secondary lock notch is behind the casting skirt (see figure 4).
- B. The release handle loop is adjacent to the casting (see figure 4).
- C. There is **NO GAP** between the bolster and the fifth wheel (see figure 5).
- D. The **KINGPIN** is **INSIDE** the **LOCK** (see figure 5).
- E. The dash display JOST Logo will glow white and a fifth wheel icon will glow green (see figure 6)

(The dash display will dim out after a minute or two)

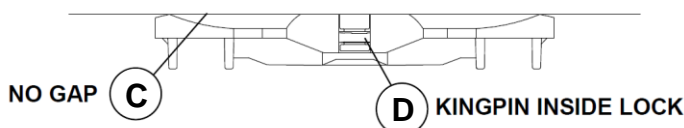


FIGURE 5

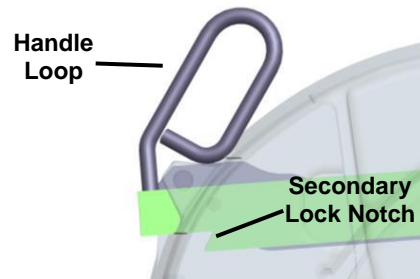


FIGURE 4

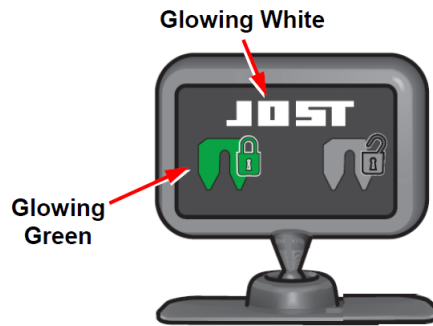


FIGURE 6

INITIAL INSPECTION

1. CUSHION RING INSERT (see figure 7)

- A. Must be intact with no impact gouging or damage.
- B. Must NOT be worn into the “O” & “S” of the JOST Logo.
- C. Replace damaged Cushion Ring Insert (SK3105-92) and (4) Retainer Bolts (SK73121-55).
- D. Index the kingpin sensor (Page #3 – Item #2)

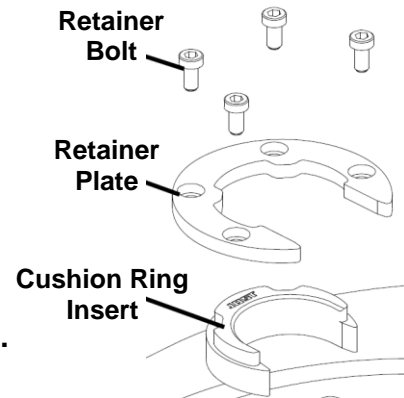


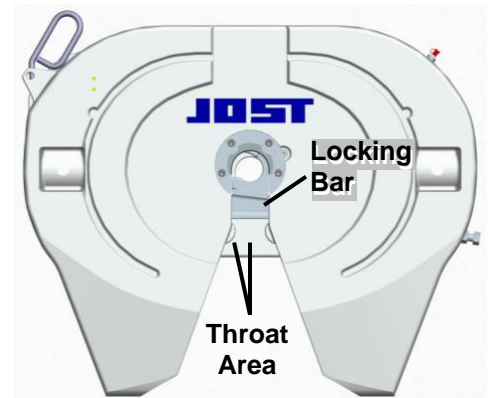
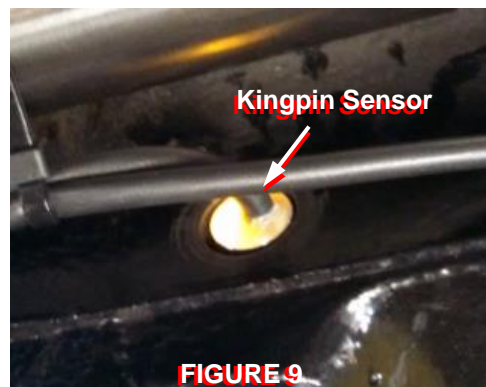
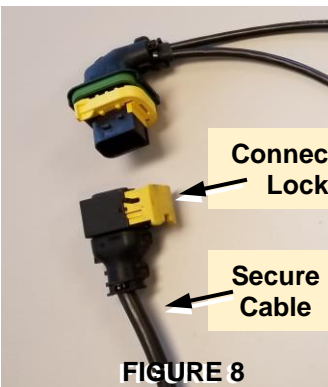
FIGURE 7

2. CHASSIS AND SENSOR HARNESS CONNECTOR

- A. The connector lock MUST be pushed in and secured.
- B. The chassis harness cable MUST be secured to the casting. The harness weight spanning to the frame rail CANNOT be supported by the connector (see figure 8).
- C. The wires and pins cannot be pulled from the connector.
- D. The kingpin sensor should not wiggle, push or pull when held by the cable (see figure 9).

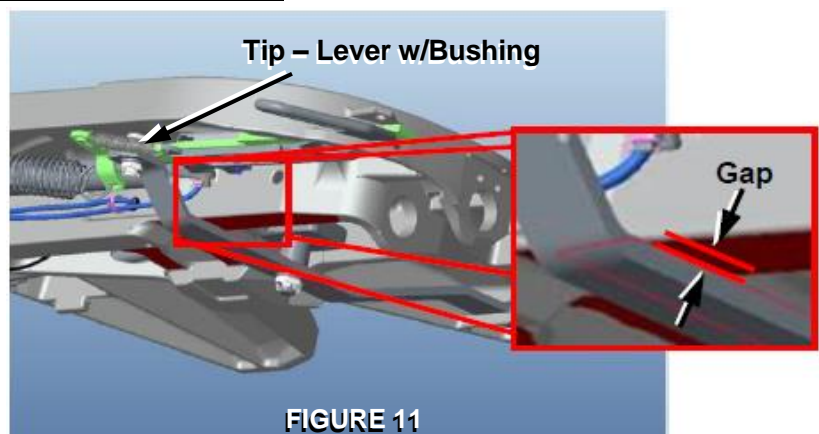
3. REMOVE GREASE BUILD UP

From center topplate surface, throat area and locking bar (see figure 10).



4. RELEASE HANDLE AND LEVER W/BUSHING (see figure 11)

- A. The gap MUST be less than 8mm between the top of the lever w/bushing and the topplate casting as shown.
- B. The lever w/bushing tip bolted to the release handle MUST be parallel with the underside of the topplate casting.
- C. Replace bent lever w/bushing (Part #SK3105-140) or release handle w/magnet (part #SK79040-23).



The right to alter specifications is reserved.

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LT SK37K-03 Rev.C

DISPLAY WARNING WHEN READY TO COUPLE

UNCOUPLED CONDITION:

- THE IGNITION KEY IS ON.
- THE DASH DISPLAY IS FLASHING RED WITH AN AUDIBLE WARNING (see figure 11).
- THE RELEASE HANDLE IS EXTENDED.
- THERE IS NO KINPIN IN THE FIFTH WHEEL
- THE KINGPIN SENSOR LIGHT UNDER THE TOPPLATE IS GLOWING

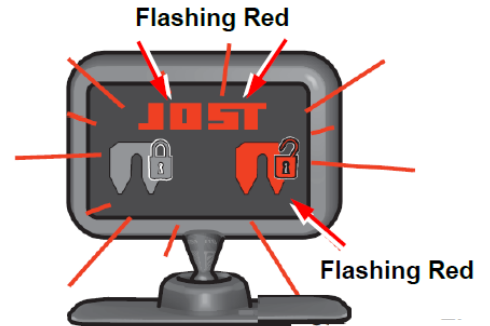


FIGURE 11

IMPORTANT: The kingpin sensor tip is activated by iron and steel.

1. CONTAMINATED GREASE MAY BE TRIGGERING THE SENSOR

- Use aerosol parts cleaner and a rag to remove grease from the sensor tip (see figure 12).
- Inspect the sensor tip for obvious impact damage (see figure 12). Confirm the white plastic shipping cap has been removed.
- The sensor tip must protrude from the casting (see figure 12).
- Cycle the ignition – If the warnings continue - Proceed to step #2.

2. THE SENSOR MAY BE INDEXED INCORRECTLY

- Loosen the Set Screw located under the sensor (see figure 13).
- Holding the sensor by the cable, push the sensor aft until the LED light goes out (see figure 13).
- Tighten the set screw until snug. Do NOT exceed 24 in-lb torque.

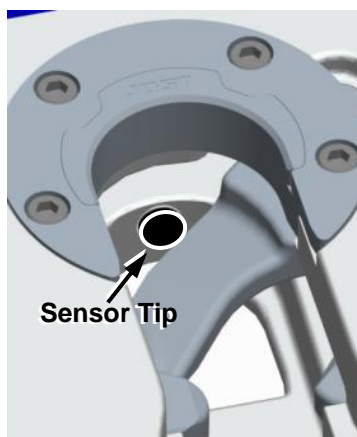


FIGURE 12

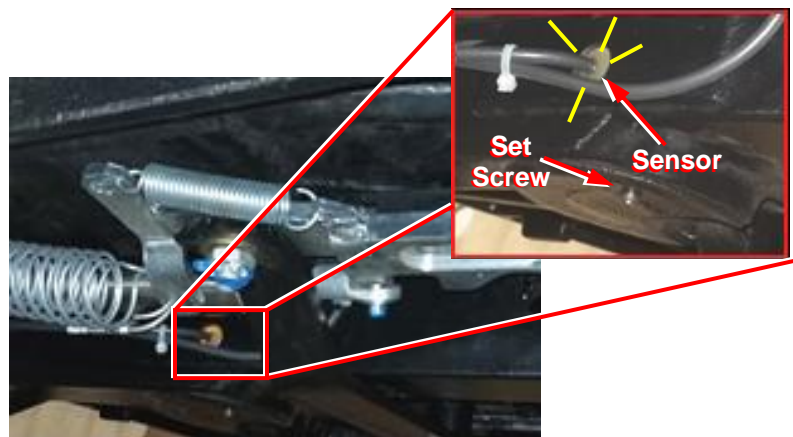


FIGURE 13

DISPLAY WARNING WHEN COUPLED

COUPLED CONDITION:

- THE IGNITION KEY IS ON.
- THE DASH DISPLAY IS FLASHING RED WITH AN AUDIBLE WARNING (see figure 13).
- THE RELEASE HANDLE IS RETRACTED.
- THE KINGPIN IS PRESENT IN THE FIFTH WHEEL
- THE KINGPIN SENSOR LIGHT UNDER THE TOPPLATE IS GLOWING

The release handle sensor does not “see” the magnet on the release handle.

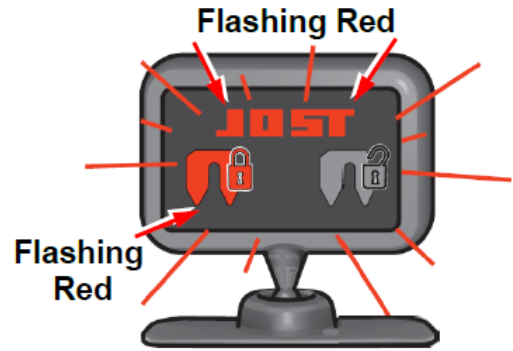


FIGURE 13

1. THE MAGNET IS MISSING FROM THE RETRACTABLE HANDLE

A. Under the topplate, feel along the trailing edge of the release handle for the bump out (see figure 14).

B. Feel for the magnet on the top surface above the bump out.

C. A smooth surface or a hole indicate the magnet is missing.

2. THE HANDLE AND LEVER WITH BUSHING ARE BENT

A. The gap MUST be less than 8mm between the top of the lever w/bushing and the topplate casting as shown (see figure 15).

B. The lever w/bushing tip bolted to the release handle MUST be parallel with the underside of the topplate casting.

C. Replace bent lever w/bushing (Part #SK3105-140) or release handle w/magnet (part #SK79040-23).

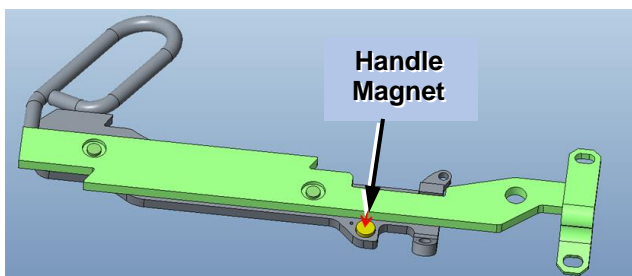


FIGURE 14

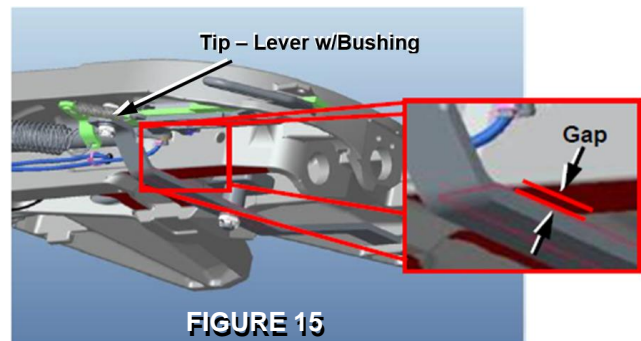


FIGURE 15

3. The Handle Magnet is Centered to the Handle Sensor.

A. Engage the lock test tool.

Verify the Handle Magnet relative to the Sensor (see figure 16).

B. If centered, turn adjustment screw out 2 full turns. or until the alarm stops (see figure 16). The key may need to be cycled to reset the system.

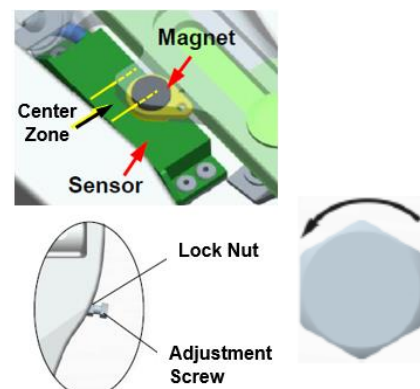


FIGURE 16

TEST EACH SENSOR'S FUNCTION

READY TO COUPLE

- The release handle is extended (see figure 17).
- The lock jaw is rotated with the opening facing the throat in the ready to couple position
- The dash display JOST logo glows white (see figure 19).

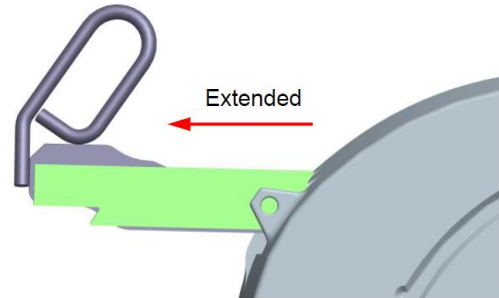


FIGURE 17

IMPORTANT:

The dash display will dim out after a minute or two. Cycle the ignition key to restart the system.

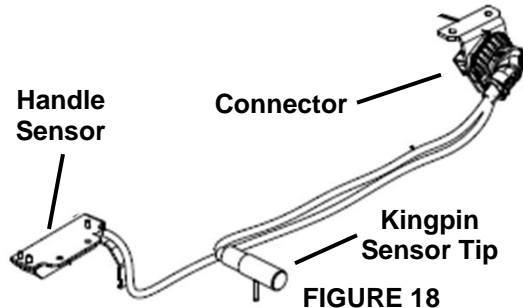


FIGURE 18

1. TEST THE KINGPIN SENSOR

A. Place a piece of steel or iron against the kingpin sensor (see figure 18).

B. Cable inlet end of the kingpin sensor should glow.

C. After 5 seconds, the dash display should flash red and an audible alarm sound (see figure 20).

2. TEST THE HANDLE SENSOR

A. Press a magnet against the handle sensor mounted under the topplate, directly above the release handle (see figure 18).

B. After 5 seconds, the dash display should go silent, the green fifth wheel icon should glow (see figure 21).

3. ISOLATE THE KINGPIN SENSOR

(Steel or iron remains against the kingpin sensor tip)

A. Remove the magnet from the handle sensor (see figure 18).

B. Cable inlet end of the kingpin sensor continues to glow.

C. After 5 seconds, the dash display should flash red and an audible alarm sound (see figure 20).

4. REMOVE METAL FROM KINGPIN SENSOR TIP

The JOST Icon should glow white and silence the alarm (see figure 19).

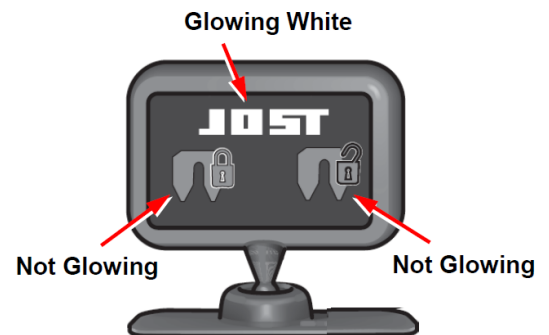


FIGURE 19

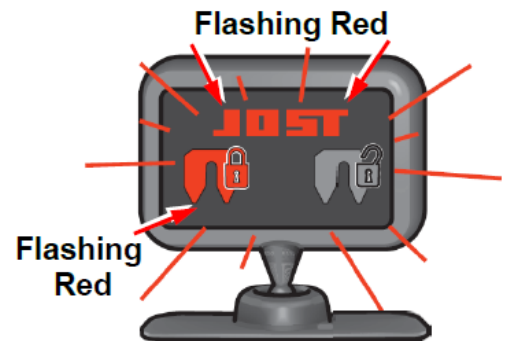


FIGURE 20

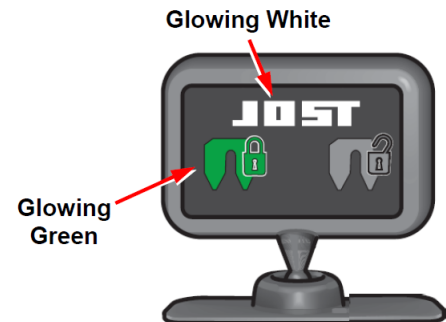
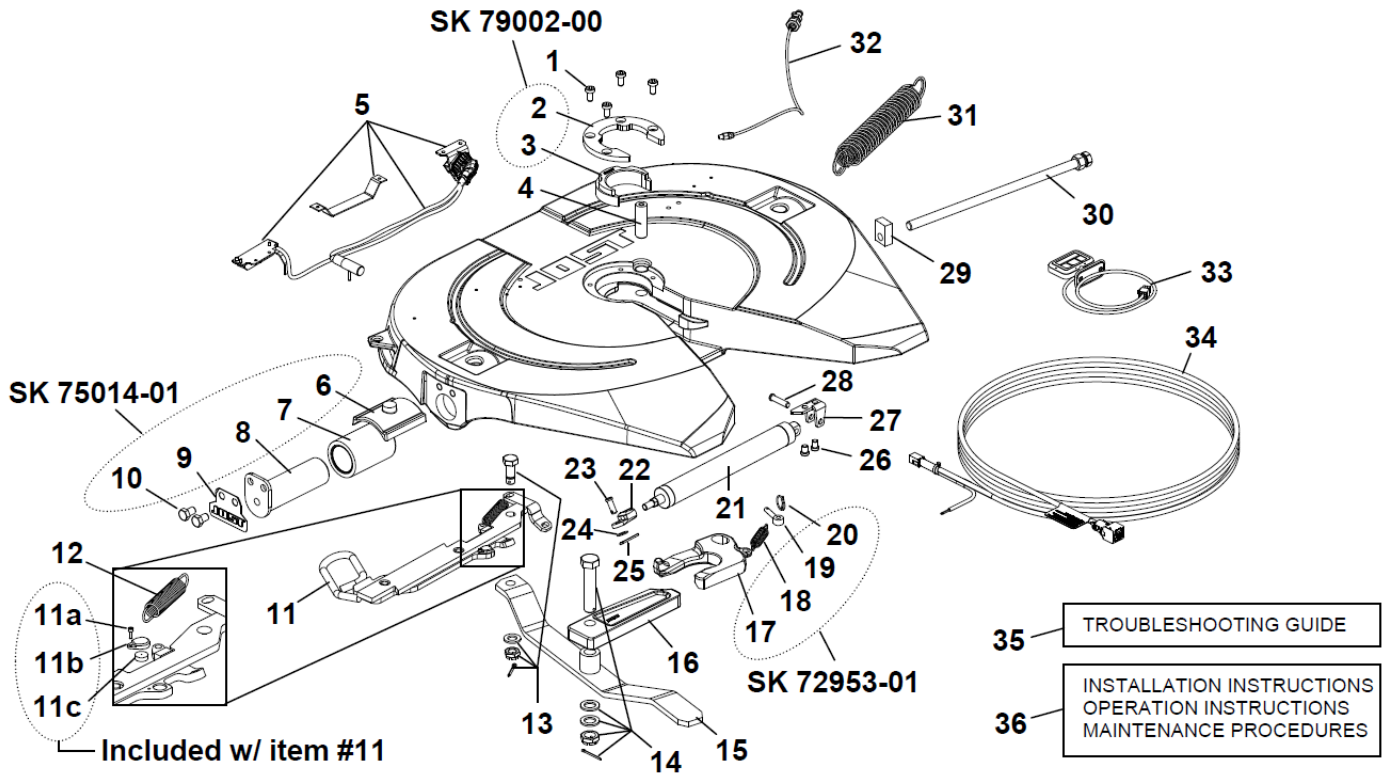


FIGURE 21



Item	Description	Part No.	Item	Description	Part No.
1	Cushion ring bolt	SK 73121-55	18	Lock jaw spring	SK 847
2	Retainer	SK 3105-93	19	Eye bolt	SK 2106-69
3	Cushion ring insert	SK 3105-92	20	Ring	SK 2106-70
4	Lock jaw pivot pin	SK 72106-67	21	Air Cylinder	SK 79020-04
5	Sensor Cable Harness & Hardware	SK 75016-15	22	Cylinder Clevis	SK 79020-06
6	Collar	SK 3105-95	23	Clevis Pin	SK 70102-00
7	Bushing	SK 2905-94	24	Flat Washer	SK 70302-05
8	Bracket pin	SK 79011-03	25	Cotter Pin	SK 70101-04
9	Tab washer	SK 73104-47	26	3/8-16 x 1/2" Low Head Screw	SK 70209-00
10	1/2-13 x 3/4 lg. Hex bolt	SK 70202-15	27	Cylinder Mount	SK 79020-05
11	Retractable Handle w/Magnet	SK 79040-23	28	Slic Pin (Quick Release)	SK 70105-00
11a	- #6-32 x 3/8 S.H.C.S.	SK 70204-09	29	Guide piece	SK 73205-07
11b	- Magnet Cover	SK 79040-12	30	Adjusting screw	SK 3105-151
11c	- Magnet	SK 79040-11	31	Double tension spring	SK 3105-20
12	Handle Extension Spring	SK 71005-07	32	Lubricating kit	SK 3108-02
13	Pivot bolt assembly	SK 71513	33	Dashtop Display	SKE501620394
14	Locking bar bolt assembly	SK 75017-03	34	Extension Cable	SKE002110394
15	Lever w/Bushing	SK 3105-140	35	Field Troubleshooting Guide	LT SK37K-03
16	Locking bar	SK 3205-06	36	Info Pack	SK 75020-39
17	Lock jaw	SK 1489LZ			

Major Rebuild Kit - L.H. Only		Minor Rebuild Kit - L.H. Only	
Includes Items 1-4 & 6-32 above		Includes Items 1-4, 17-20 & 32 above	
JOIST	Weight	JOIST	Weight
Order Number		Order Number	
SK 75013-39	33 lbs.	SK 73221-50Z	6 lbs.