

## Required Parts

Table 1		
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Qty	Part Number	Description
2	6V-5843	Bolt
4	3E-4353	Hard Washer
2	8T-0389	Locknut

## Installation Procedure

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Illustration 1 <sup>g00104545</sup>

Attach a "Do not Operate" warning tag or a similar warning tag to the start switch or to the controls before you service the equipment or before you repair the equipment. The warning tag (Special Instruction, SEHS7332, are available from your Cat dealer.

## Parts to Manufacture

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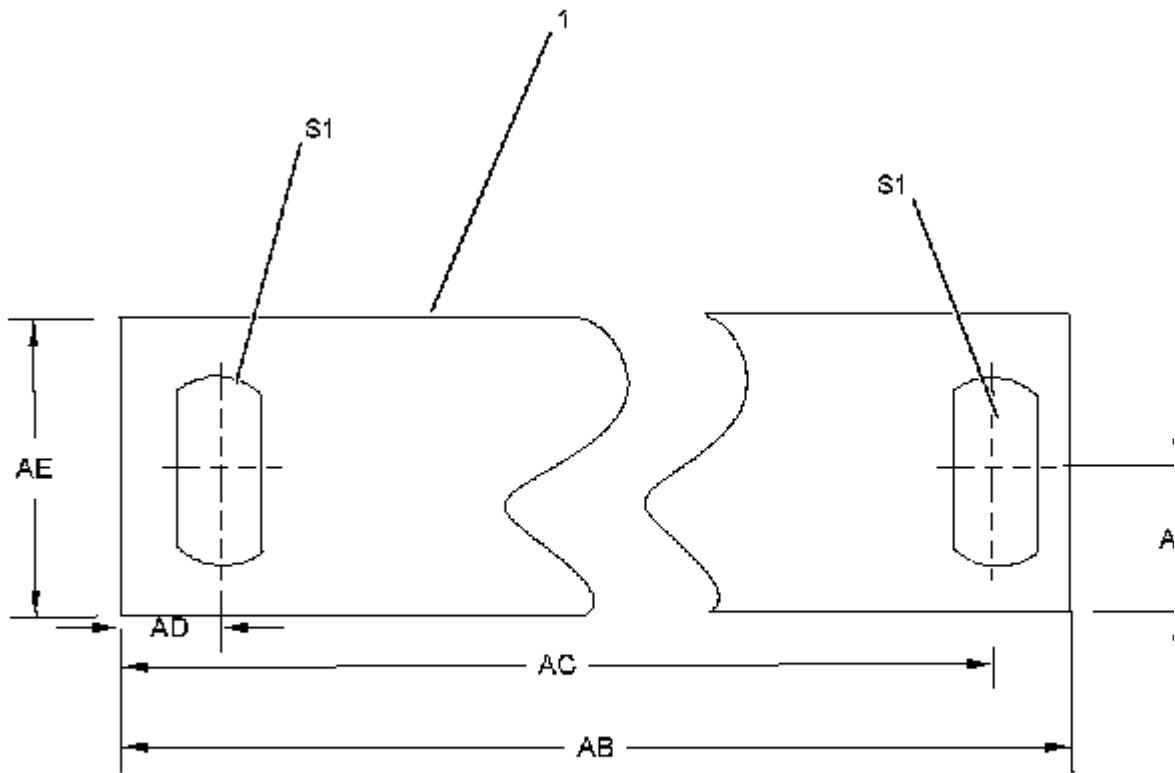


Illustration 2

g03557002

Plate one

(1) Plate one

(S1) 15 mm (0.59 inch) x 20 mm (0.79 inch)

(AA) 20 mm (0.79 inch)

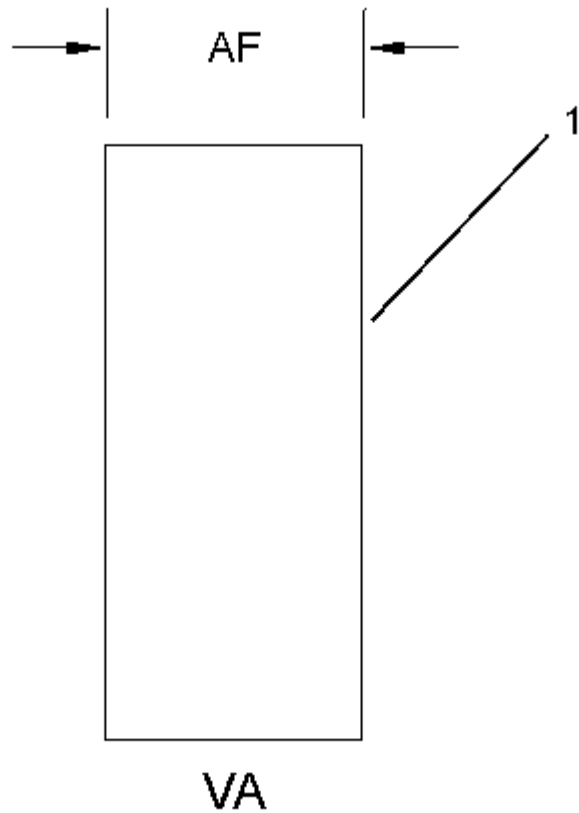
(AB) 610 mm (24.02 inch)

(AC) 595 mm (23.43 inch)

(AD) 15 mm (0.59 inch)

(AE) 35 mm (1.38 inch)

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Illustration 3

g03558016

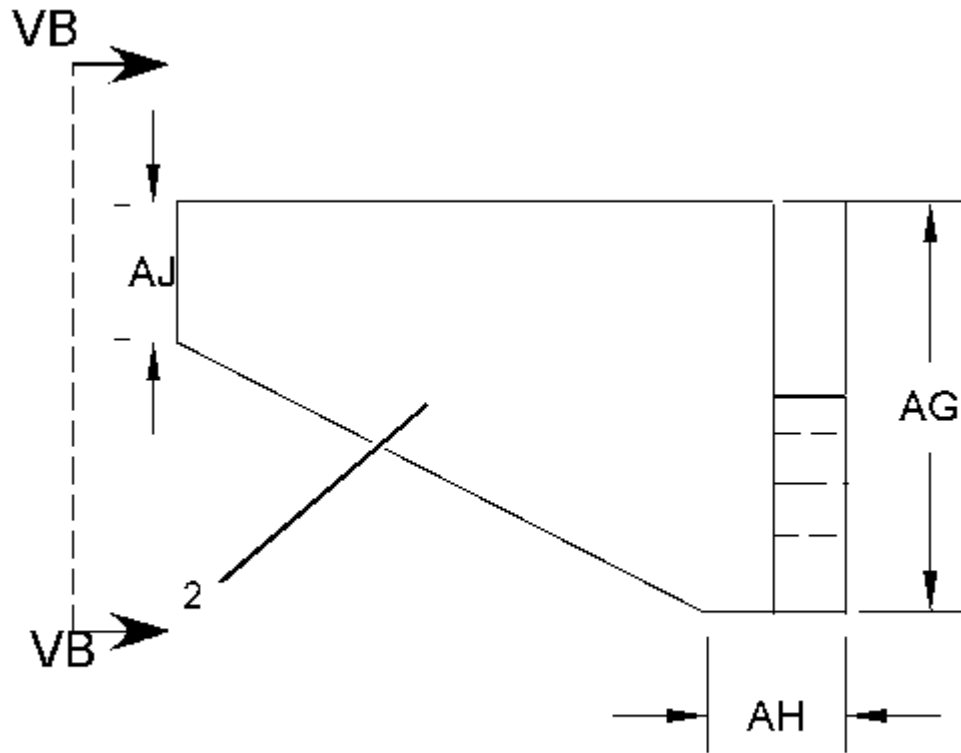
Plate one view VA

(AF) 15 mm (0.59 inch)

1. Use the information in Illustration to manufacture plate (1) for the improvement. Manufacture the plate from steel that has minimum yield strength of 290 MPa (42061 psi) surface.

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Illustration 4

g03558282

Plate two

(2) Plate two

(AG) 35.5 mm (1.398 inch)

(AH) 20 mm (0.79 inch)

(AJ) 15 mm (0.59 inch)

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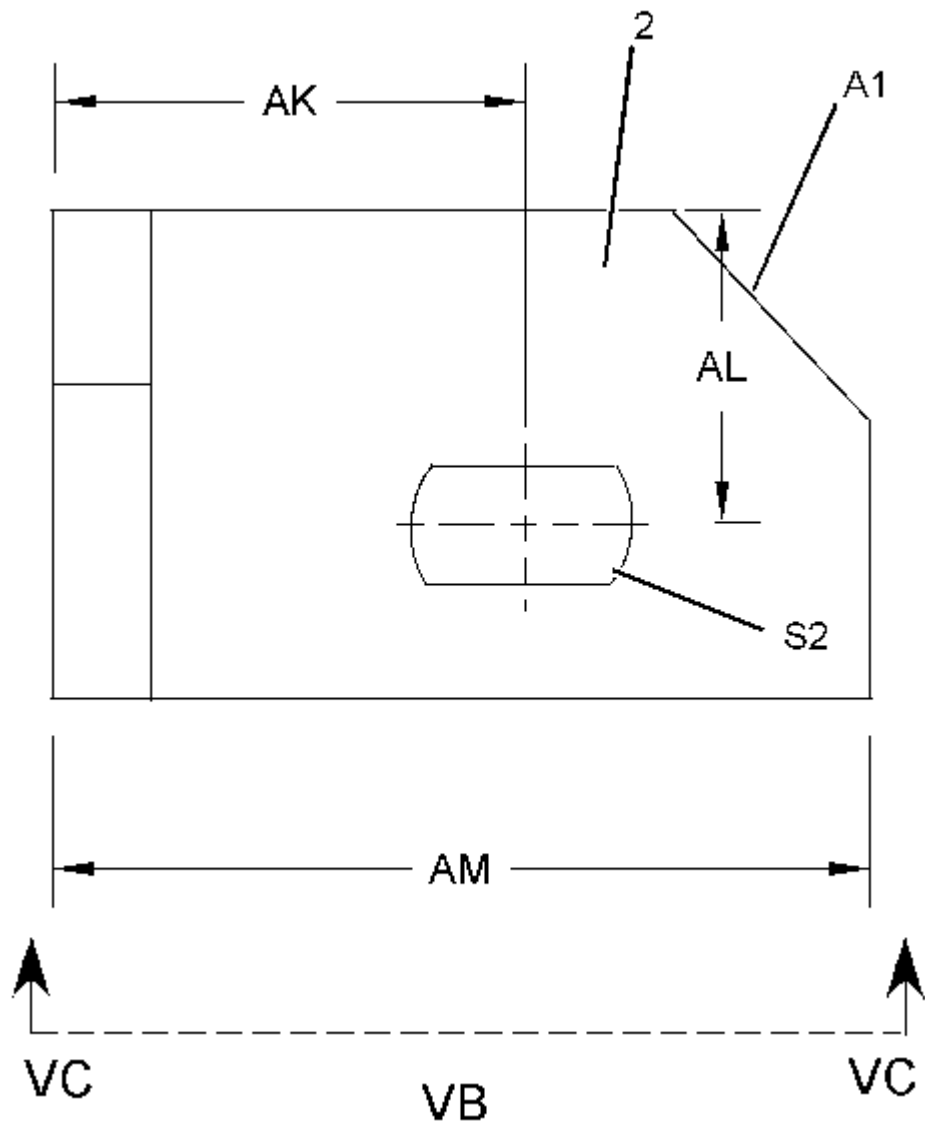


Illustration 5

g03558119

Plate two view VB

(2) Plate two

(A1) 12 mm (0.47 inch)  $\pm$  1 mm (0.039 inch) 45°

(S2) 11.5 mm (0.453 inch) x 20 mm (0.79 inch)

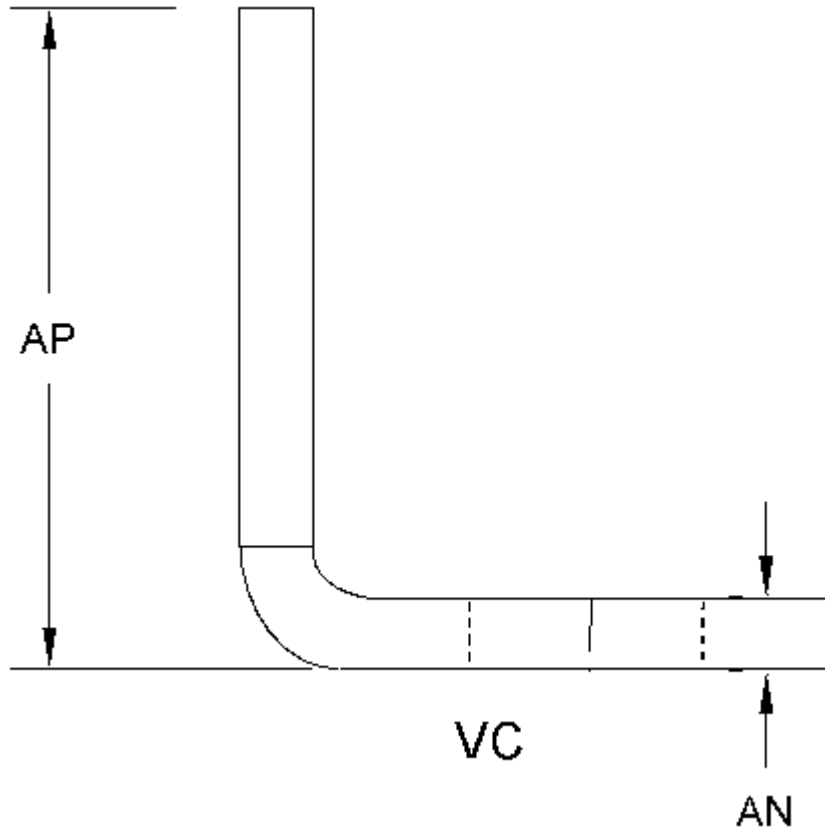
(AK) 42 mm (1.65 inch)

(AL) 22.5 mm (0.886 inch)

(AM) 65 mm (2.56 inch)

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Illustration 6

g03558336

Plate two view VC

(AN) 10 mm (0.39 inch)

(AP) 60 mm (2.36 inch)

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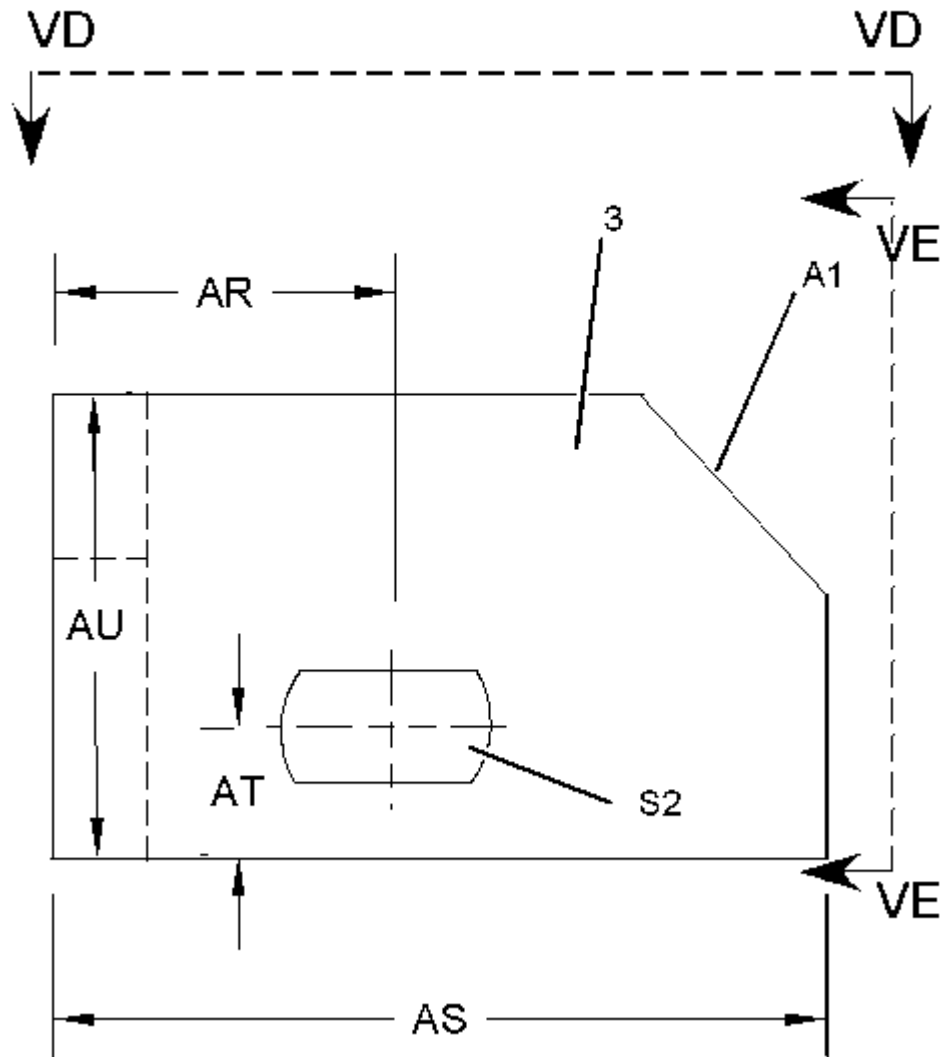


Illustration 7

g03558417

Plate three

(3) Plate three

(A1) 12 mm (0.47 inch)  $\pm$  1 mm (0.039 inch)

(S2) 11.5 mm (0.453 inch) x 20 mm (0.79 inch)

(AR) 42 mm (1.65 inch)

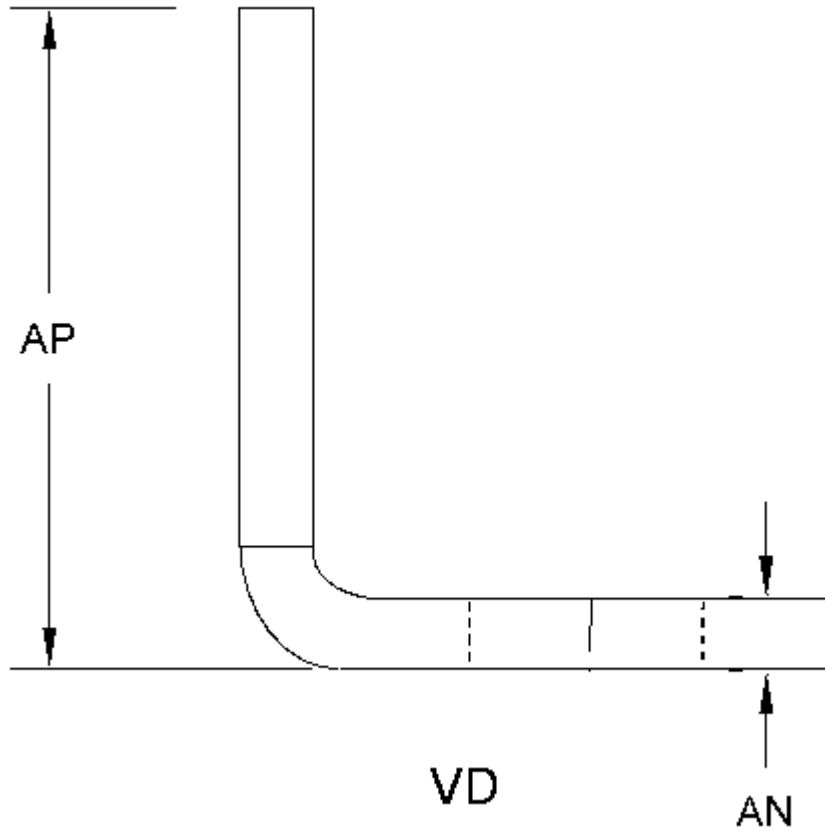
(AS) 99 mm (3.90 inch)

(AT) 13 mm (0.51 inch)

(AU) 55 mm (2.16 inch)

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Illustration 8

g03558461

Plate three view VD

(AN) 10 mm (0.39 inch)

(AP) 60 mm (2.36 inch)

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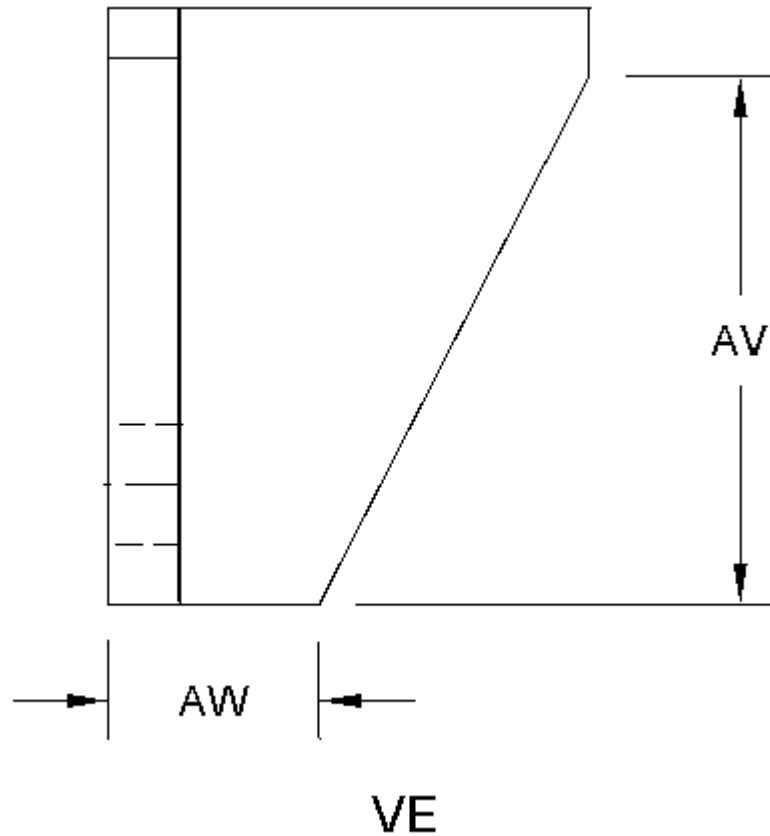


Illustration 9

g03559361

Plate three view VE

(AV) 40 mm (1.57 inch)

(AW) 20 mm (0.79 inch)

2. Use the information in illustration above to manufacture one plate two (2) and one plate three (3) for the improvement. Manufacture the plate from steel that has minimum yield strength of 170 MPa (24656 psi) surface.

### **Scraper Blade Installation**

1. Park the machine in a smooth surface.
2. Remove the conveyor belt (First Stage).

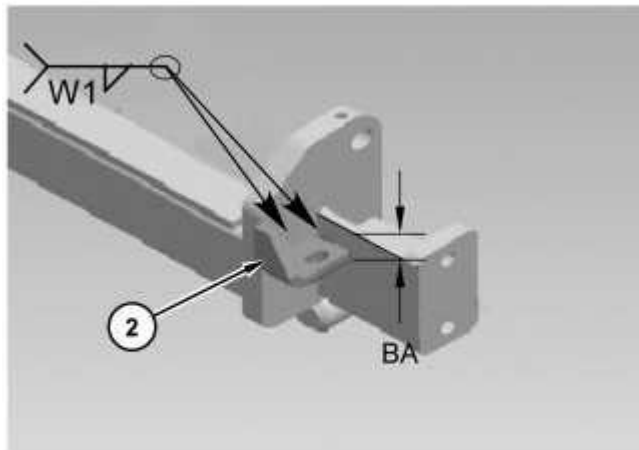
**Note:** Refer to Assembly and Disassembly Manual, KENR8154, "Conveyor Belt (First Stage) - Remove and Install " page 34, for more information.

3. Remove the conveyor pulley (First Stage).

**Note:** Refer to Assembly and Disassembly Manual, KENR8154, "Conveyor Pulley (Head, First Stage) - Remove and Install" page 48, for more information.

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Illustration 10

g03559576

(2) Plate two

(W1) 6 mm (0.24 inch)

(BA) 35 mm (1.38 inch)

4. Weld plate (2) to front left conveyor arm frame.

**Note:** Refer to Special Instruction, REHS1841, "General Welding Procedures - Weld Specifications and Qualifications" for the correct procedure.

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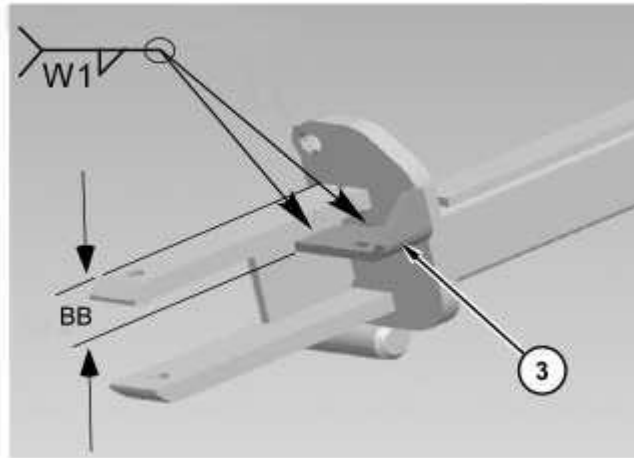


Illustration 11

g03559820

(3) Plate 3

(BB) 51 mm (2.01 inch)

5. Weld plate (3) to the front right conveyor arm frame.

**Note:** Refer to Special Instruction, REHS1841, "General Welding Procedures - Weld Specifications and Qualifications" for the correct procedure.

6. Install the conveyor pulley (First Stage).

**Note:** Refer to Assembly and Disassembly, KENR8154, "Conveyor Pulley (Head, First Stage) - Remove and Install" page 48, for more information.

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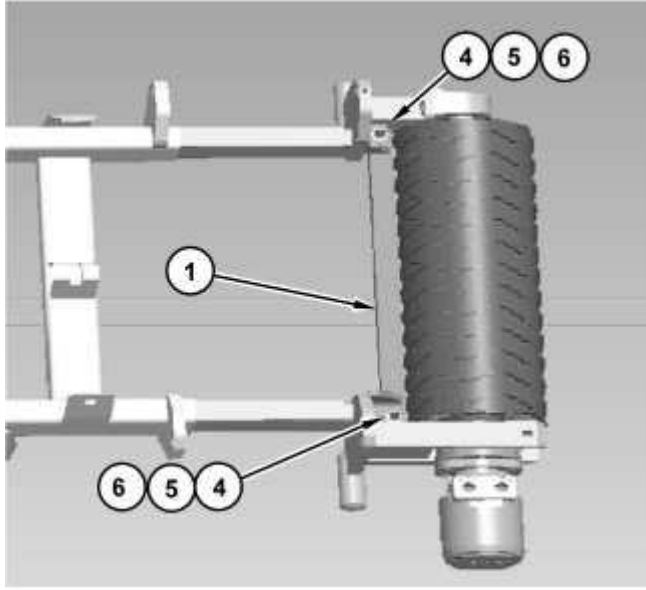


Illustration 12

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(1) Plate one

(4) 6V-5843 Bolt

(5) 3E-4353 Hard Washer

(6) 8T-0389 Locknut

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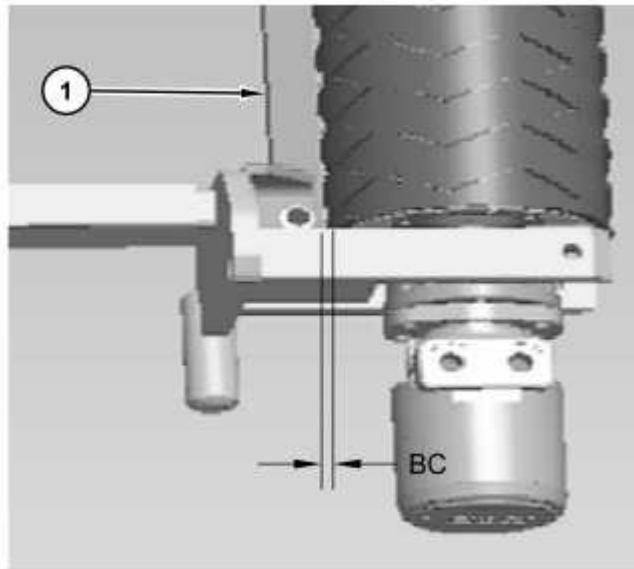


Illustration 13

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(BC) 3 mm (0.12 inch)

7. Install scraper blade (1) using two **6V-5843** Bolts , two **3E-4353** Hard Washers , and two **8T-0389** Locknut . Set 3 mm (0.12 inch) (BC) as distance between the scraper blade and the pulley.
8. Install the conveyor belt (First Stage).

## Primary Conveyor Belt Tension and Tracking Adjust

**Note:** Keeping the proper tension on the primary conveyor belt is necessary for long belt life. Proper tension on the primary conveyor belt is required for proper conveyor operation. The primary conveyor belt will naturally stretch with normal use. Adjust the belt with small corrections. Check the operation with each adjustment.

1. Lower front and rear legs of the machine to the lowest position possible.

**Reference** Refer to Operation and Maintenance Manual, "Front Left Elevation Control Lever", "Front Right Elevation Control Lever" and "Secondary Conveyor Control Lever" for more information.

2. Raise the primary conveyor to the highest position possible.
3. Turn the engine OFF.

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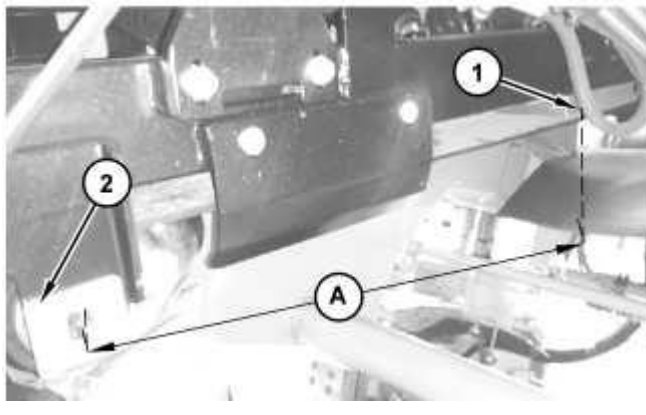


Illustration 1

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4. Use a 66 cm (25.98 inch) length squared tube (1) positioned at a distance (A) 75 cm (29.52 inch) from the first idler return roller (2) on the frame of the primary conveyor.

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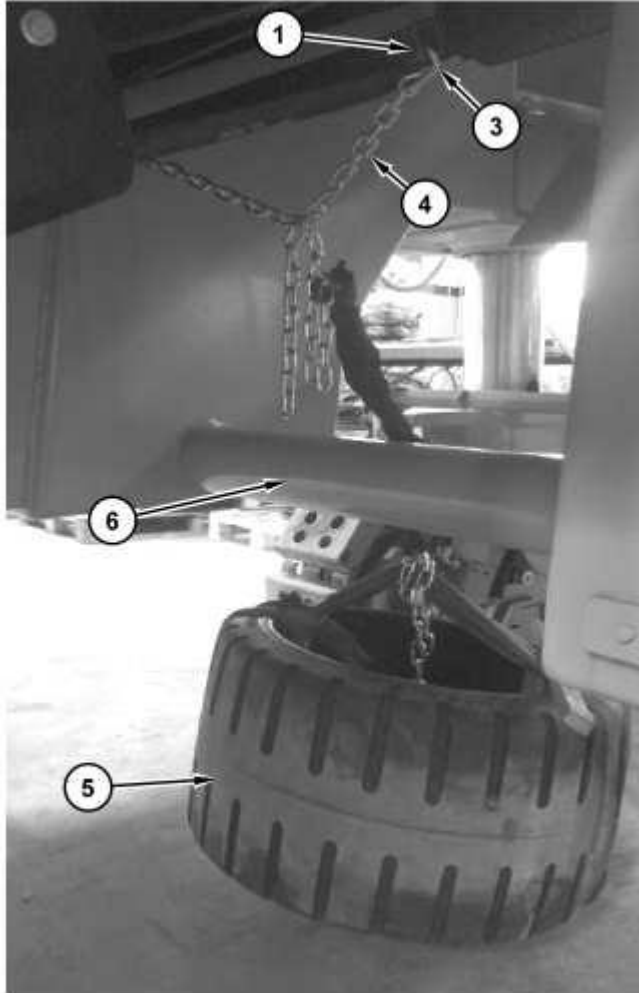


Illustration 2

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5. Attach two hooks (3) and two suitable chains (4) to squared tube (1) as shown on the above illustration. Route chain (4) forward of frame bar (6). Attach a 60 kg (132.27 lb) weight (5) to the end of chains.

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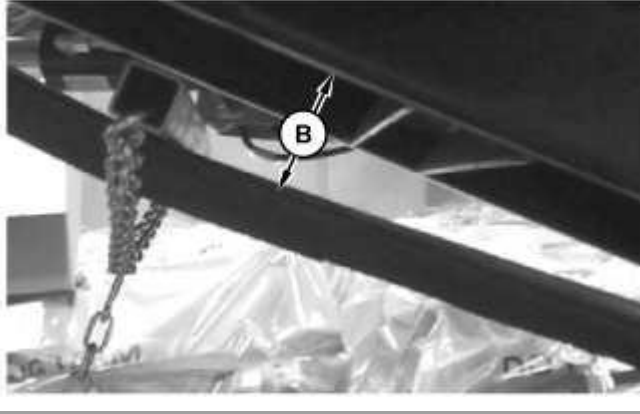


Illustration 3

g03397277

6. Measure distance (B) from the primary conveyor belt surface to the primary conveyor frame.
7. Turn ON the machine and enable the electrical circuit. Slowly raise the front leg columns until the weight detaches from the ground.
8. Measure again distance (B) : when correctly tensioned, the secondary conveyor belt has a deflection of 75 mm (2.95 inch). If the deflection value is more than 75 mm (2.95 inch), proceed as follows to restore the needed value.

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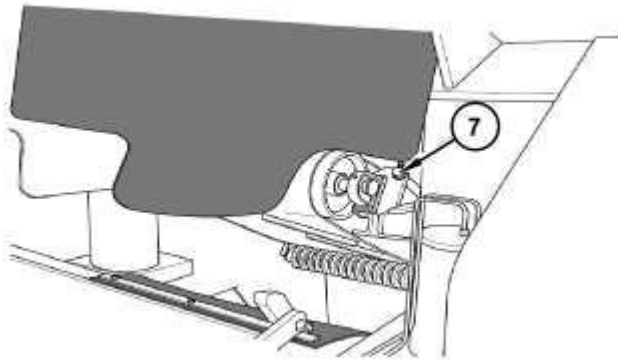


Illustration 4

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9. Turn adjusting screw (7) in order to acquire the desired deflection (B) of 75 mm (2.95 inch).



10. Adjust both sides of the conveyor with the same amount of adjustment at the same time.

**Note:** Observe the tracking of the belt. The belt will track toward the side that needs additional tension. Tighten the tension on this side of conveyor.