Undercarriage and Components Manual

Technical Manual

7-10142 NA

Issued 07-1998
Revised 11-2004
Revised 04-2005

CASE

MidWestTech | Case Undercarriage and Components 550,350,450,475,650,650G,650H,650K,750H,750K,850,850B,850C,850D,850G,850H,850K,1150,1150B,1150C,1150D,1150E,1150H,1450,1450B,1455B,1550,1650 ,1850K Crawler Service Manual | Publication 7-10142

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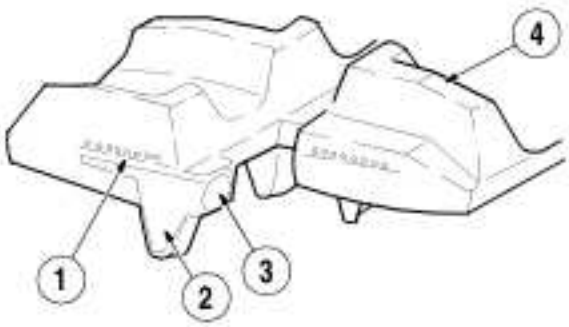
TRACK TENSION

To Tighten Rubber Track

The rubber track tensioning system uses the machine hydraulic system pressure to tighten the track. This system is set to provide 1/4 inch (6 mm) deflection or less. To adjust:

1. In an open area, raise the dozer blade and drive forward at 1/4 throttle.
2. Pull the tilt control lever completely to the left (TILT LEFT) and hold in that position.
3. When the blade stops tilting to the left, the relief valve opens and both tracks are tightened automatically.
4. Hold the control lever in this position for 3 or 4 seconds and then return the dozer blade to the level position.

IMPORTANT: *Adjust the tracks a minimum of twice a day and always before you operate on a hillside.*



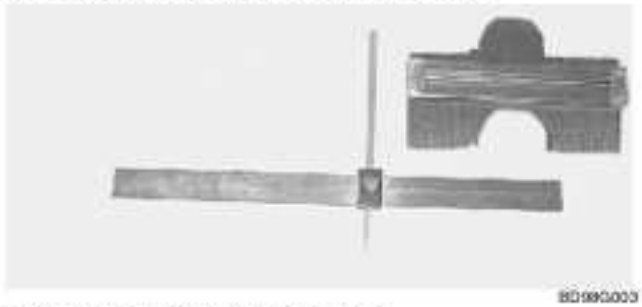
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1. STEEL CORD
2. PROJECTION GUIDE
3. DRIVE LUG
4. GROUSER LUG

Rubber Track Tension

IMPORTANT: *When operating is mud, snow, etc., material will stick to the track parts and cause the tracks to become tight. Always readjust the track tension after a short periods of time when operating in these conditions.*

Measuring Wear on Rubber Track



BD98G003

Tools required for measuring wear.

1. Contour gauge with steel probes (purchase at local hardware store).
2. Steel ruler and depth gauge from kit (CAS-1950A).



BD98G026

Measure grouser lug wear as shown. Percent worn values are:

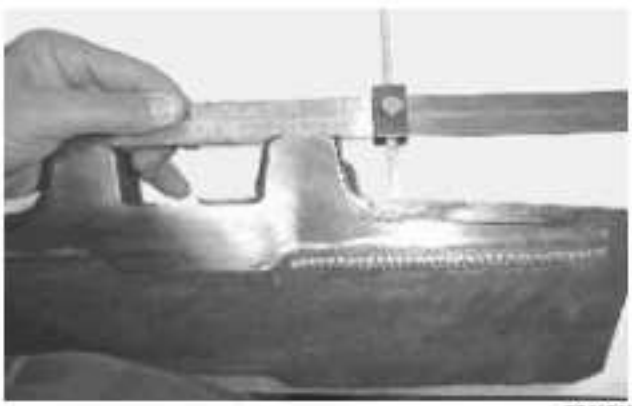
New = 50 mm (1.97 inch)

25% worn = 40 mm (1.57 inch)

50% worn = 30 mm (1.18 inch)

75% worn = 20 mm (.79 inch)

100% worn = 10 mm (.39 inch)



BD98G006

Record projection guide wear in relationship to non-wearing surface of rubber track. The new (unworn) projection guide height is 37.5 mm (1.48 inch).

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1450B P.I.N. 8388001 and After - Case Lubricated Track (C.L.T.)
1455B P.I.N. 8480001 and After - Case Lubricated Track (C.L.T.)

Forward and Reverse Bushing Wear



1450B P.I.N. 8383001 and after
1455B P.I.N. 8480001 and after

Case Lubricated Track (C.L.T.)
203.7 mm (8.02 inch) pitch

Caliper Measurement		Percent Worn	
mm	Inches	High Impact*	Low Impact*
69.60	2.74	0	0
69.34	2.73	7	5
69.09	2.72	14	10
68.83	2.71	21	15
68.58	2.70	28	20
68.33	2.69	34	25
68.07	2.68	40	30
67.82	2.67	46	35
67.56	2.66	52	40
67.31	2.65	58	45
67.06	2.64	64	49
66.80	2.63	70	53
66.55	2.62	74	57
66.29	2.61	78	61
66.04	2.60	82	64
65.79	2.59	85	67
65.53	2.58	88	70
65.28	2.57	91	73
65.02	2.56	94	76
64.77	2.55	97	78
64.52	2.54	100	80
64.26	2.53	102	82
64.01	2.52	104	84
63.75	2.51	106	86
63.50	2.50	108	88
63.25	2.49	110	90
62.99	2.48	112	92
62.74	2.47	114	94
62.48	2.46	116	96
62.23	2.45	118	98
61.98	2.44	120	100
61.72	2.43	122	102
61.47	2.42	124	104
61.21	2.41	126	106
60.96	2.40	128	108

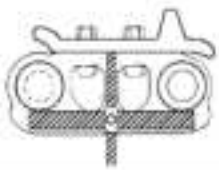
IMPORTANT: *It is recommended the pins and bushings be replaced if the wear measurement is in the shaded area. Turn pins and bushings before this point.*

* A ***Low Impact*** condition is when the grousers on the track shoe completely engage the ground and the ground is free of bumps.

* A ***High Impact*** condition is when the grousers on the track shoe do not completely engage the ground and there is constant contact with bumps 150 mm (6 inches) or higher.

BSI7N001

Vertical Bushing Wear



1450B P.I.N. 8383001 and after
1455B P.I.N. 8480001 and after

Case Lubricated Track (C.L.T.)
203.7 mm (8.02 inch) pitch

Depth Gauge Measurement		Percent Worn	
mm	Inches	High Impact*	Low Impact*
86.61	3.41	0	0
86.36	3.40	7	5
86.11	3.39	14	10
85.85	3.38	21	15
85.60	3.37	28	20
85.34	3.36	34	25
85.09	3.35	40	30
84.84	3.34	46	35
84.58	3.33	52	40
84.33	3.32	58	45
84.07	3.31	64	49
83.82	3.30	70	53
83.57	3.29	74	57
83.31	3.28	78	61
83.06	3.27	82	64
82.80	3.26	85	67
82.55	3.25	88	70
82.30	3.24	91	73
82.04	3.23	94	76
81.79	3.22	97	78
81.53	3.21	100	80
81.28	3.20	102	82
81.03	3.19	104	84
80.77	3.18	106	86
80.52	3.17	108	88
80.26	3.16	110	90
80.01	3.15	112	92
79.76	3.14	114	94
79.50	3.13	116	96
79.25	3.12	118	98
78.99	3.11	120	100
78.74	3.10	122	102
78.49	3.09	124	104
78.23	3.08	126	106
77.98	3.07	128	108

IMPORTANT: *It is recommended the pins and bushings be replaced if the wear measurement is in the shaded area. Turn pins and bushings before this point.*

* A ***Low Impact*** condition is when the grousers on the track shoe completely engage the ground and the ground is free of bumps.

* A ***High Impact*** condition is when the grousers on the track shoe do not completely engage the ground and there is constant contact with bumps 150 mm (6 inches) or higher.

BSI7N002

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