SEN00919-17

Shop Manual

BULLDOZER

D275AX-5E0

SERIAL NUMBERS 30001 and up

ecot3

KOMATSU®

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Table of contents

00 Index and foreword
Index SEN00921-17
Composition of shop manual 2
Table of contents 4

Foreword and general information SEN00922-04
Safety notice 2
How to read the shop manual 7
Explanation of terms for maintenance standard 9
Handling of electric equipment and hydraulic component 11
Handling of connectors newly used for engines 20
How to read electric wire code 23
Precautions when carrying out operation 26
Method of disassembling and connecting push-pull type coupler 29
Standard tightening torque table 32
Conversion table 36

01 Specification
Specification and technical data SEN00924-01
Specefication dimension drawings 2
Specifications 4
Weight table 16
Table of fuel, coolant and lubricants 20

10 Structure, function and maintenance standard
Engine and cooling system SEN00926-01
Engine mount 2
Cooling system 4
Cooling fan pump 6
Cooling fan motor 14
Power train, Part 1 SEN00927-01
Power train skeleton 2
HSS system 4
Overall drawing of power train unit 6
Power train hydraulic piping drawing 8
Transmission control 9
Steering, brake control 10
Damper, universal joint 12
Torque converter, PTO 14
Transmission 28
Tranmission ECMV 40
Main relief valve and torque convertor relif valve 46
Torque converter valve 50
Lubrication relief valve 58
Power train, Part 2 SEN00928-01
Bevel gear shaft, HSS, brake 3
Brake valve 16
Brake ECMV 17
Parking brake valve 23
Sudden brake prevention valve 24
Final drive 25
Sprocket 30

MidWestTech | Komatsu D275AX-5E0 Bulldozer Service Manual | Publication SEN009... Order the manual at mid-west-tech.com >

Undercarriage and frame SEN00929-02
Track frame ... 2
Idler cushion ... 6
Idler ... 10
Track roller ... 12
Track roller bogie ... 14
Carrier roller ... 17
Track shoe ... 19
Main frame ... 23
Suspension ... 25
Hydraulic system, Part 1 SEN00930-02
Work equipment hydraulic piping diagram ... 2
PPC control piping diagram ... 6
Work equipment control ... 8
Hydraulic tank ... 10
Scavenging pump ... 12
Work equipment pump ... 14
Power train pump, steering lubrication pump ... 30
HSS pump ... 31
HSS motor ... 47
PPC, HSS charge filter ... 56
Hydraulic system, Part 2 SEN00931-01
Control valve ... 2
Self pressure reducing valve ... 31
Hydraulic system, Part 3 SEN00932-02
HSS charge filter bypass ... 2
HSS oil cooler bypass valve ... 4
PPC valve ... 6
PCCS lever ... 18
PPC lock valve ... 21
Hydraulic cylinder ... 22
Piston valve ... 28
Quick drop valve ... 29
Pin puller switch ... 30
Pin puller solenoid valve ... 31
Blade control knob ... 33
Pitch, dual tilt solenoid valve ... 34
Accumulator ... 35
Work equipment SEN00933-04
Cylinder stay ... 2
Blade ... 4
Ripper ... 10
Cab and its attachments SEN00934-01
Cab mount ... 2
Cab ... 3
Air conditioner ... 5
Electrical system SEN00935-02
Engine control system ... 2
CRI engine control system ... 12
Monitor system ... 14
Machine monitor ... 16
Mode selection system ... 30

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Sensors 34
Electrical equipment 40
Palm command control system 42
KOMTRAX system 44

20 Standard value table
Standard service value table SEN01413-02
Standard value table for engine 2
Standard value table for machine 3

30 Testing and adjusting
Testing and adjusting, Part 1 SEN01414-04
Tools for testing, adjusting, and troubleshooting 3
Testing engine speed 6
Testing intake air pressure (Boost pressure) 9
Testing exhaust temperature 11
Testing exhaust gas color 13
Adjusting valve clearance 15
Testing compression pressure 17
Testing blow-by pressure 19
Testing engine oil pressure 20
Testing EGR valve and bypass valve drive oil pressure 21
Handling of fuel system devices 22
Releasing residual pressure from fuel system 22
Testing fuel pressure 23
Testing fuel return rate and fuel leakage 24
Bleeding air from fuel circuit 28
Testing fuel circuit for leakage 30
Testing and adjusting alternator belt tension 31
Handling controller voltage circuit 32
Testing and adjusting air conditioner compressor belt 33
Testing fan speed 34
Testing fan circuit oil pressure 35
Bleeding air from fan pump 36
Adjusting fuel control dial and decelerator pedal 37
Testing and adjusting, Part 2 SEN01415-04
Testing power train oil pressure 3
Testing and adjusting HSS oil pressure 12
Adjusting transmission speed sensor 17
Bleeding air from HSS pump 18
Simple method of testing brake performance 18
Adjusting brake pedal and parking brake lever 19
Adjusting PCCS lever console position 22
Emergency escape method when power train has trouble 23
Adjusting clearance of idler 26
Inspecting wear of sprocket 27
Testing and adjusting track shoe tension 28
Testing and adjusting work equipment oil pressure 29
Testing control circuit main pressure 33
Testing PPC valve output pressure 34
Adjusting play of PPC valve 36
Testing outlet pressure of ripper pin puller solenoid valve 39
Testing parts which cause hydraulic drift of blade and ripper 40
Testing internal leakage of work equipment cylinder 41
Releasing residual pressure from work equipment cylinder 42
Bleeding air from work equipment cylinder 42

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Specifications

Applicable serial No.: 30001 - 40000

Machine model				D275AX-5E0
Serial number				30001 - 40000
Weight	Machine weight • Bare tractor • Above with semi U-dozer + variable multi-shank ripper + ROPS + cab + air conditioner + side cover		kg	38,430 50,800
Performance	Min. turning radius		m	3.9 (Pivot turn)
	Gradeability		deg.	30
	Stability (front, rear, left, right)		deg.	35
	Transmission speed ranges: Forward	1st speed 2nd speed 3rd speed	km/h	3.6 6.7 11.2
	Transmission speed ranges: Reverse	1st speed 2nd speed 3rd speed	km/h	4.7 8.7 14.9
	Ground pressure	Bare tractor With semi U-dozer + variable multi-shank ripper With ROPS + cab + air conditioner + side cover With U-dozer + variable multi-shank ripper + ROPS + cab + air conditioner + side cover	kPa {kg/cm^2}	88.26 (0.90) 117.67 (1.20) 119.63 (1.22)
Dimensions	Overall length	Bare tractor (To top of lift cylinder) With Semi U-dozer + variable multi-shank ripper With U-dozer + variable multi-shank ripper	mm	5,570 8,905 9,245
	Overall width	Bare tractor (To top of lift cylinder) With Semi U-dozer + variable multi-shank ripper With U-dozer + variable multi-shank ripper	mm	2,925 4,300 4,615
	Overall height	To top of exhaust pipe To top of air intake duct (To top of control lever)	mm	3,915 3,153

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Failure code [DK60KB] Acceleration sensor short circuit

Action code	Failure code	Trouble	Acceleration sensor short circuit (Steering controller system)
E01	**DK60KB**		
Contents of trouble	• Signal voltage of acceleration sensor is below specified value		
Action of controller	• Turns shoe slip control (SSC) function OFF.		
Problem that appears on machine	• Even if shoe slips, engine speed does not change.		
Related information	• Input (Voltage) from acceleration sensor can be checked in real-time monitoring mode. (Code **60200**: Voltage of acceleration sensor) • Method of reproducing failure code: Turn starting switch ON.		

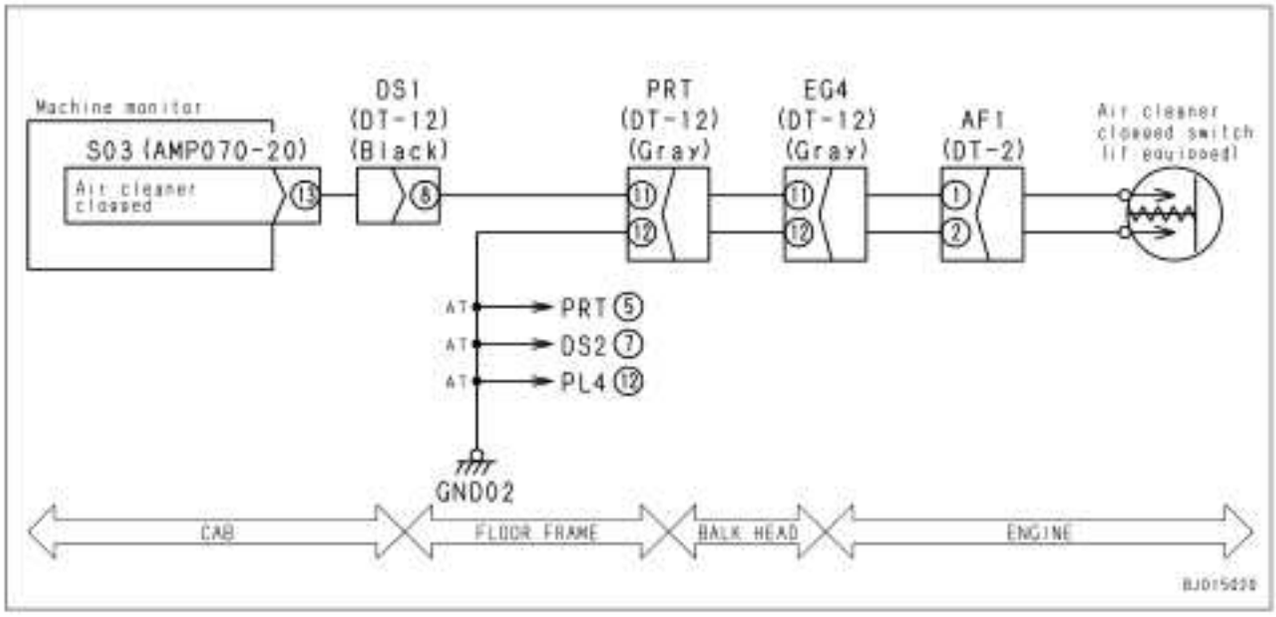
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective 5V power source system	See if failure code [**DB37KK**] is displayed. If it is displayed, carry out troubleshooting for it first.		
	2	Defective acceleration sensor (Internal trouble)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			SSA	Voltage	
			Between (2) – (3)	0.75 – 4.25 V	
	3	Short circuit with power source in wiring harness (Contact with 24V circuit)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Short circuit of wiring harness between STCN1 (female) (1) – SSA (female) (2) with chassis ground	Voltage	Max. 1 V
			Short circuit of wiring harness between STCN1 (female) (21) – SSA (female) (3) with chassis ground	Voltage	Max. 1 V
			Short circuit of wiring harness between STCN3 (female) (34) – SSA (female) (1) with chassis ground	Voltage	Max. 1 V
	4	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between STCN1 (female) (21) – SSA (female) (3)	Resistance	Max. 1 Ω
	5	Defective steering controller	If causes 1 – 4 are not detected, steering controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.)		

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Trouble (2)	• The air cleaner clogging caution lamp flashes. (If equipped spec.)
Related information	• If abnormality is detected while the engine is running, the caution item lamp flashes.

	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Clogged air cleaner	Clean or replace the air cleaner.		
	2	Disconnection in wiring harness (Disconnection in wiring harness or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between S03 (female) (13) and AF1 (female) (1)	Resistance	Max. 1 Ω
	3	Short circuit with chassis ground in wiring harness (Contact with ground circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Between wiring harness between S03 (female) (13) and AF1 (female) (1) and chassis ground	Resistance	Min. 1 MΩ
	4	Defective machine monitor (gauge, lamp module)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			S03	Air cleaner	Voltage
			Between (13) and chassis ground	When normal	Max. 1 V
				When clogged	20 – 30 V

Circuit diagram related



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Undercarriage troubleshooting report (Normal)

(Program form No.: SELA195001)

Komatsu
Undercarriage Inspection



Customer name:
Address:

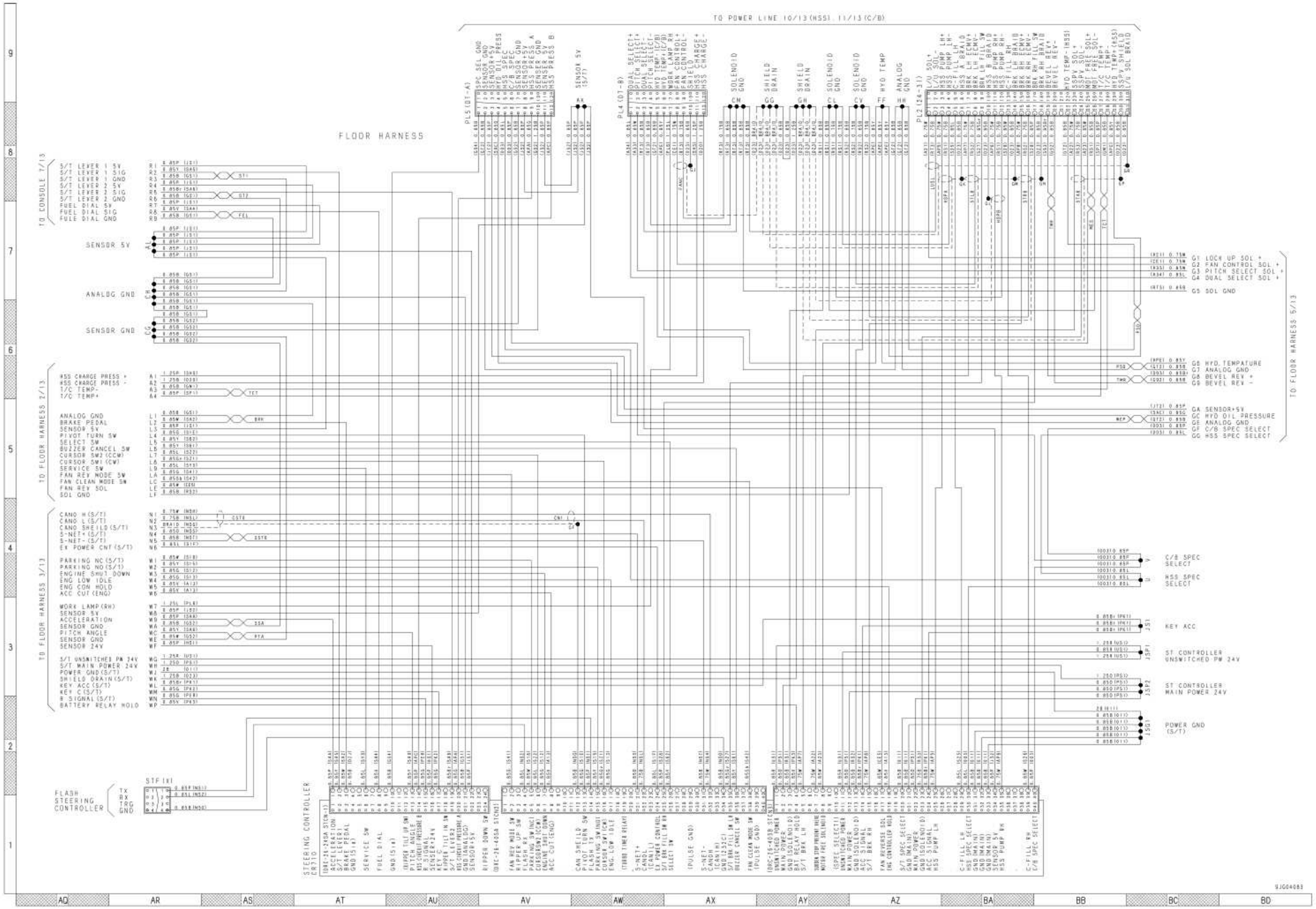
Model	D275AX-5E0	Serial#		Equip#		Work Order No	
Location		SMR				Wet,AR,HD or Dry	Wet
Soil condition		Dealer				Shoe width (mm)	
Working condition		Inspector				Shoe type	SINGLE
		Insp.Date(yy/mm/dd)				Wear type	NORMAL

			New	100% Wear	Measured mm	Wear %	SMR New	SMR Rebuilt	Hours on Parts:	Comments/Observation
LINK PITCH	R	LH	1042.4	1054.4						
		RH	1042.4	1054.4						
	M	LH	260.60	263.60						
		RH	260.60	263.60						
LINK HEIGHT		LH	166.0	148.0						
		RH	166.0	148.0						
BUSHING		LH	90.5	82.0			New	Turned		
		RH	90.5	82.0			New	Turned		
GROUSER HIGHT		LH	88.0	30.0						
		RH	88.0	30.0						
CARRIER	Front	LH	200.0	175.0						
		RH	200.0	175.0						
	Rear	LH	200.0	175.0						
		RH	200.0	175.0						
IDLER	Front	LH	21.0	33.5						
		RH	21.0	33.5						
	Rear	LH	21.0	33.5						
		RH	21.0	33.5						
TRACK ROLLER	1	LH	255.0	195.0						
	2	LH	255.0	195.0						
	3	LH	255.0	195.0						
	4	LH	255.0	195.0						
	5	LH	255.0	195.0						
	6	LH	255.0	195.0						
	7	LH	255.0	195.0						
	8	LH	255.0	195.0						
	9	LH	255.0	195.0						
	10	LH	255.0	195.0						
D=2(h1-h2)	1	RH	255.0	195.0						
	2	RH	255.0	195.0						
	3	RH	255.0	195.0						
	4	RH	255.0	195.0						
	5	RH	255.0	195.0						
	6	RH	255.0	195.0						
	7	RH	255.0	195.0						
	8	RH	255.0	195.0						
	9	RH	255.0	195.0						
	10	RH	255.0	195.0						
SPROCKET		LH	0.0	8.0						
		RH	0.0	8.0						

Remarks:

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Electrical circuit diagram (4/13)
D275AX-5E0



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