NEW HOLLAND

E265
E305
Tier 3

NEW HOLLAND KOBELCO

Workshop
Manual

NEW HOLLAND
CONSTRUCTION
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INDEX

MANUAL INDEX



SAFETY PRECAUTIONS

		Pag.
Section 1	GENERALITIES	S1
Section 2	SAFETY PRECAUTIONS	S2
Section 3	SAFETY PLATES	S3

OPERATIONAL PRINCIPLE



Section 1 GENERAL

Group 1	Specifications	T1-1
Group 2	Component Layout	T1-2



Section 2 SYSTEM

Group 1	Mechatro Control System	T2-1
Group 2	Mechatro Controller	T2-2
Group 3	Hydraulic System	T2-3
Group 4	Electrical System	T2-4



Section 3 COMPONENT OPERATION

Group 1	Hydraulic Pump Assy	T3-1
Group 2	Pilot Valve	T3-2
Group 3	Control Valve	T3-3
Group 4	Swing Device	T3-4
Group 5	Travel Device	T3-5
Group 6	Swivel Joint	T3-6
Group 7	Cylinders	T3-7
Group 8	Air Conditioner	T3-8

OPERATIONAL PERFORMANCE TEST



Section 4 OPERATIONAL PERFORMANCE TEST

Group 1	Introduction	T4-1
Group 2	Standard Performances	T4-2
Group 3	Test Procedures	T4-3
Group 4	Mechatro Controller Adjustment	T4-4

TROUBLESHOOTING



Section 5 TROUBLESHOOTING

Group 1	Mechatro Control	T5-1
Group 2	Hydraulic System	T5-2
Group 3	Electrical System	T5-3
Group 4	Engine	T5-4

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INDEX

REPAIR INSTRUCTIONS



Section 1 GENERAL INFORMATION

Group 1	Precautions for Disassembly and Assembly	W1-1
Group 2	Tightening Torque	W1-2



Section 2 UPPERSTRUCTURE

Group 1	Cab	W2-1
Group 2	Air Conditioner	W2-2
Group 3	Counterweight	W2-3
Group 4	Main Frame	W2-4
Group 5	Pump Device	W2-5
Group 6	Control Valve	W2-6
Group 7	Swing Device	W2-7
Group 8	Pilot Valve	W2-8
Group 9	Solenoid Valve Unit	W2-9



Section 3 UNDERCARRIAGE

Group 1	Swing Bearing	W3-1
Group 2	Travel Device	W3-2
Group 3	Swivel Joint	W3-3
Group 4	Track Adjuster	W3-4
Group 5	Front Idler	W3-5
Group 6	Upper and Lower Roller	W3-6
Group 7	Tracks	W3-7



Section 4 FRONT ATTACHMENT

Group 1	Front Attachment	W4-1
Group 2	Cylinders	W4-2



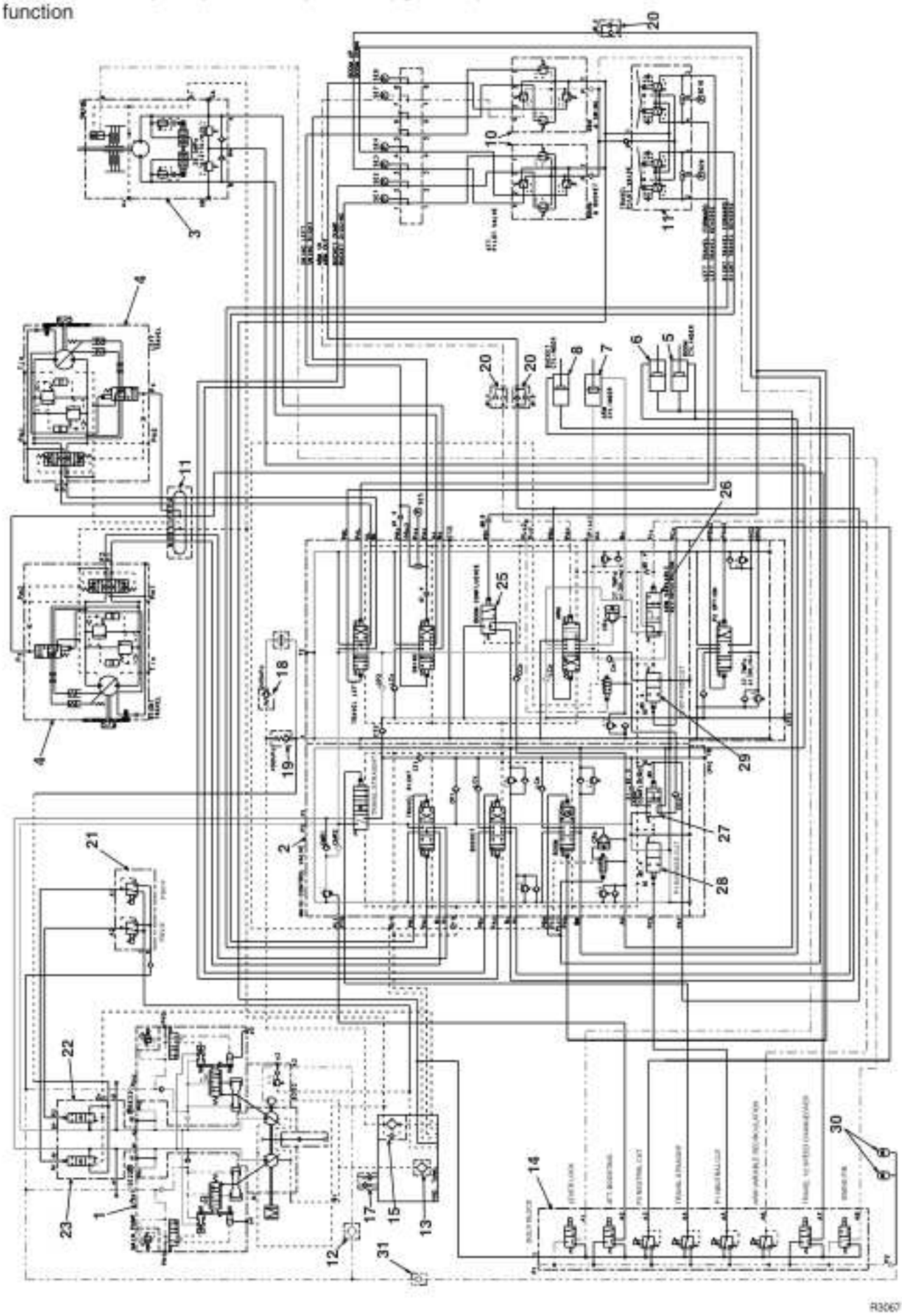
ENGINE

Refer to the manual:
REPAIR MANUAL FOR CNH U.K. ENGINES
667TA/EEG - 667TA/EEC - 667TA/EBF - 667TA/EED - 667TA/EBD
Print no : 604.13.689

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HYDRAULIC CIRCUIT

ARM CIRCUIT (E265): Arm in operation (light load), arm variable recirculation and anticavitation function



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TRAVEL DEVICE

1 - **Flanged hub**
2 - **Base plate assembly**
2-1 - **Base plate**
2-2 - **Cuonterbalance valve**
2-2-1 - **Spool**
2-2-2 - **Valve** (Q.ty 2)
2-2-3 - **Spring** (Q.ty 2)
2-2-4 - **Body** (Q.ty 2)
2-2-5 - **O-Ring** (Q.ty 2)
2-3 - **Spring seat** (Q.ty 2)
2-4 - **Spring** (Q.ty 2)
2-5 - **Spring seat** (Q.ty 2)
2-6 - **Flanged plug assy** (Q.ty 2)
2-6-1 - **Plug** (Q.ty 2)
2-6-2 - **O-Ring** (Q.ty 2)
2-6-3 - **Socket screw** M12x40 (Q.ty 8) 108 ± 10 Nm
2-6-4 - **O-Ring** (Q.ty 2)
2-6-5 - **Plug** (Q.ty 2)
2-6-6 - **Ball** (Q.ty 2)
2-7 - **Relief valve** (Q.ty 2) 375 ± 20 Nm
2-7-1 - **Valve body** (Q.ty 2)
2-7-2 - **Valve** (Q.ty 2)
2-7-3 - **Valve seat** (Q.ty 2)
2-7-4 - **Spring seat** (Q.ty 2)
2-7-5 - **Spring** (Q.ty 2)
2-7-6 - **Body** (Q.ty 2)
2-7-7 - **O-Ring** (Q.ty 2)
2-7-9 - **Free piston** (Q.ty 2)
2-7-10 - **O-Ring** (Q.ty 2)
2-7-11 - **Backup ring** (Q.ty 2)
2-7-13 - **Spring seat** (Q.ty 2)
2-7-14 - **O-Ring** (Q.ty 2)
2-7-15 - **Adjusting screw** (Q.ty 2)
2-7-16 - **Counternut** (Q.ty 2)
2-7-17 - **O-Ring** (Q.ty 2)
2-7-18 - **Backup ring** (Q.ty 4)
2-8 - **Conical plug** (Q.ty 3) 10 ± 1 Nm
2-9 - **Two speed valve**
2-10 - **Spring**
2-11 - **Plug** 118 ± 5 Nm
2-12 - **O-Ring** (Q.ty 2)
2-13 - **Spring seat**
2-14 - **Plug** 118 ± 5 Nm
2-15 - **Washer**
2-17 - **Orifice** 2.5 ± 0.5 Nm
2-18 - **Orifice** (Q.ty 2) 2.5 ± 0.5 Nm
2-19 - **Orifice** (Q.ty 5) 2.5 ± 0.5 Nm
2-20 - **Plug** (Q.ty 4) 36.8 ± 2.5 Nm
2-21 - **O-Ring** (Q.ty 4)
2-22 - **Check valve** (Q.ty 2)
2-23 - **Spring** (Q.ty 2)
2-24 - **O-Ring** (Q.ty 2)
3 - **Motor shaft**
4 - **Cylinder block assy**
4-1 - **Cylinder block**
4-2 - **Piston** (Q.ty 9)
4-3 - **Retainr plate**
4-4 - **Spherical retainer plate holder**
4-5 - **O-Ring**
4-6 - **Spring seat**
4-7 - **Spring**
4-8 - **Spring seat**
4-9 - **Pin** (Q.ty 3)
5 - **Swash plate**
6 - **Steel ball** (Q.ty 2)
7 - **Two speed control piston** (Q.ty 2)
8 - **Bearing**
9 - **Bearing**
10 - **Grain**
11 - **Socket bolt** M14x40 (Q.ty 9) 205 ± 10 Nm
12 - **Seal ring**
13 - **Brake disc** (Q.ty 3)
14 - **Steel disc** (Q.ty 2)
15 - **Brake piston**
16 - **O-Ring**
17 - **O-Ring**
18 - **Two speed control spring** (Q.ty 8)
19 - **Pin** (Q.ty 4)
20 - **Spring** (Q.ty 2)
21 - **Valve plate**
22 - **O-Ring** (Q.ty 4)
23 - **O-Ring**
24 - **Name plate**
25 - **Screw** (Q.ty 2)

MOTOR DRAIN PRESSURE

Continuous running	Less than 2 bar
Max. intermittent	Less than 5 bar

Brake

The track drive is supplied with a safety negative disc brake fitted into the hydraulic motor (parking brake). Parking brake release is automatically operated when high pressure oil is supplied to one of the two ports of the hydraulic motor. For this reason, there is no need of brake external pilot.
The brake technical data are shown on the track drive installation drawing.

BRAKE TECHNICAL DATA

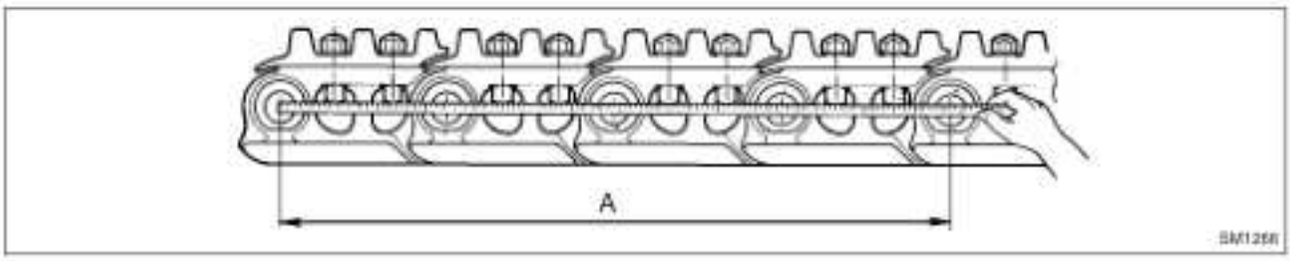
Min. pressure for release parking brake	bar	11
Static parking brake torque	Nm	581

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MAINTENANCE STANDARD (E305)

Link Pin and Track Bushing

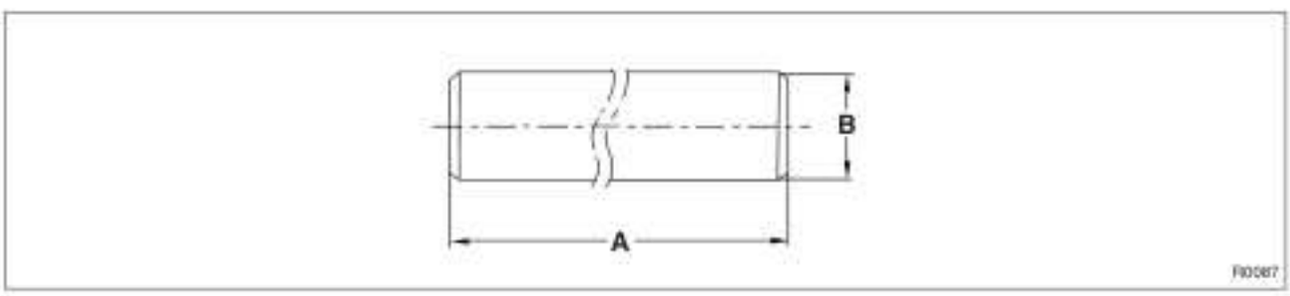
- Measure the length of four links, as illustrated, with the tension on the track.
- Do not measure the master-pin included part of the track.



Unit: mm

	Standard	Allowable Limit	Remedy
A	811.6	828	Replace

Master Pin



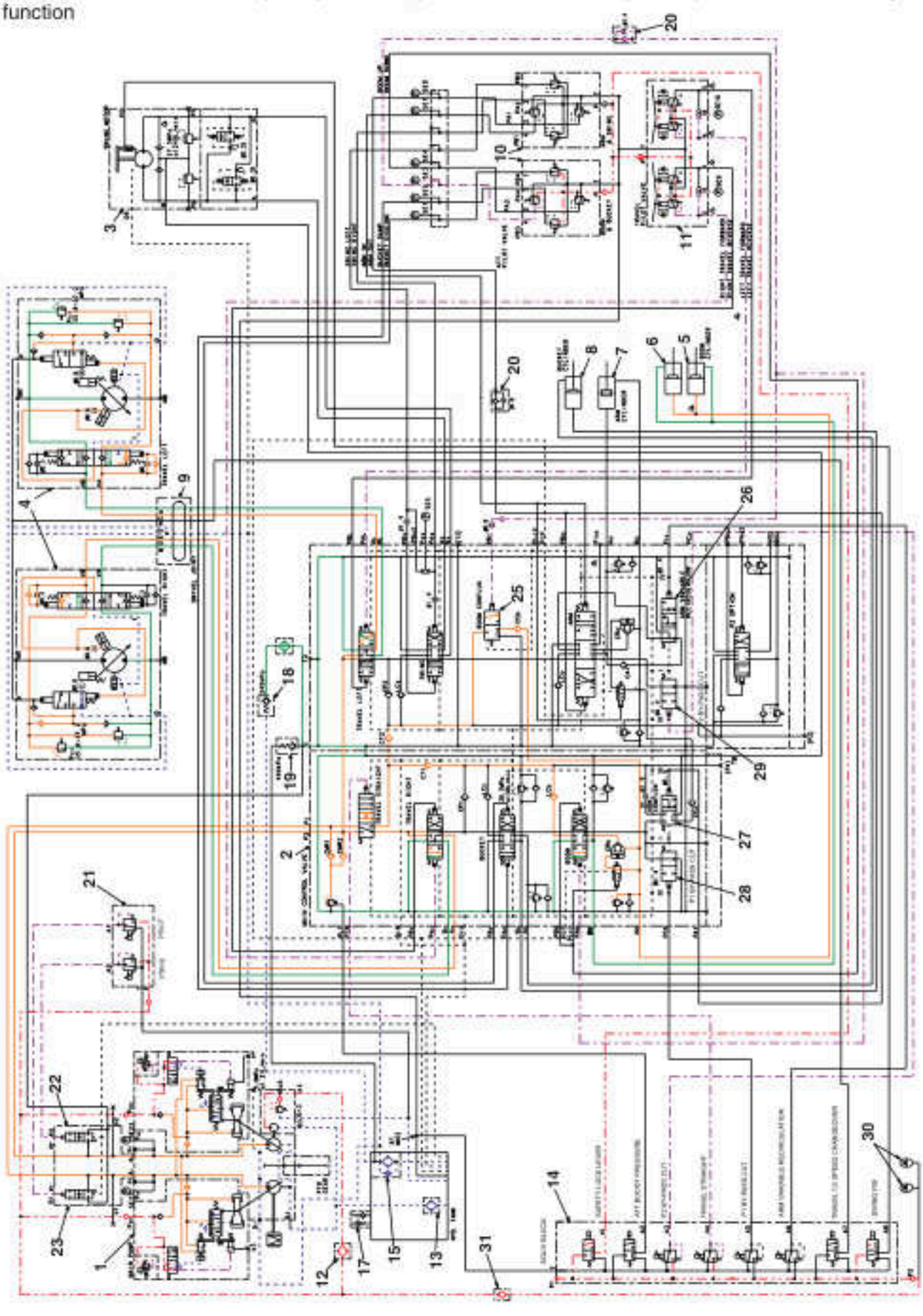
Unit: mm

	Standard	Allowable Limit	Remedy
A	251	-	Replace
B	44.5	41.8	Replace

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HYDRAULIC CIRCUIT

COMBINED OPERATION (E305): Boom up/Travel forward 1st speed operation, travel straight function



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