

Service Manual

(Circuit Diagrams and Data)

01

Aerial Platform

Model **AW-250TG-3**

Applicable Serial No. 420454 --

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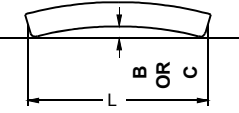
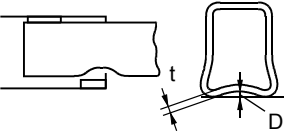
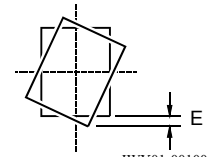
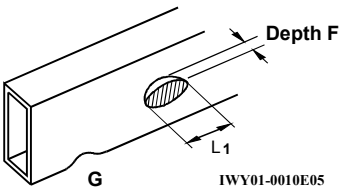


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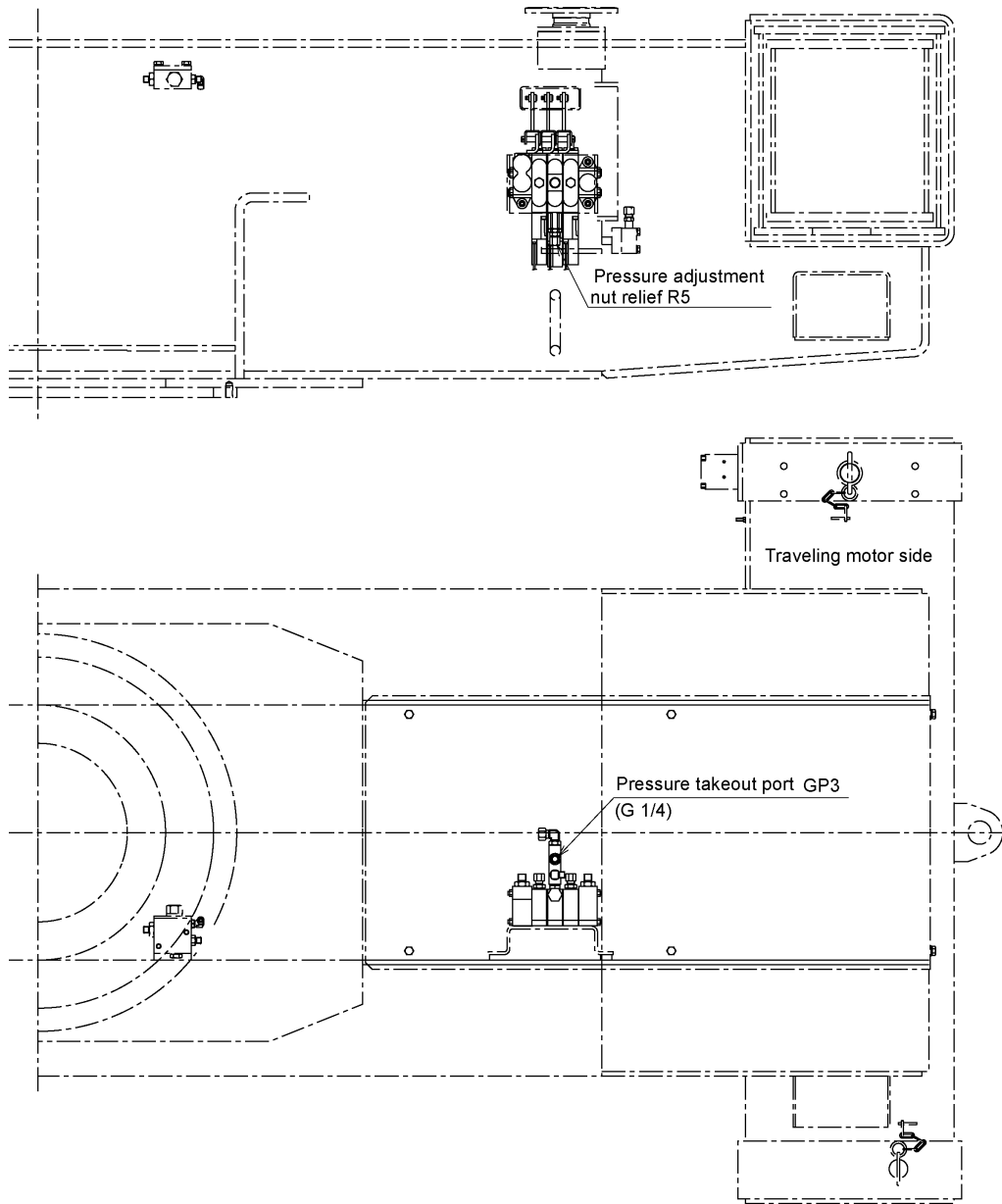
Service Data

5.3 Boom bend and deformation




Item	Standard (mm)	Remarks				
<p>Overall boom bending (at full extension, maximum elevation angle, rated load)</p>  <p style="text-align: center;">IWY01-001001</p>	<p>Free of large vertical or horizontal bends along the entire boom length.</p>	<p>With machine level, adjust pads as appropriate.</p>				
<p>Individual boom bends (Lengthwise direction)</p>  <p style="text-align: center;">IWY01-0010E02</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; vertical-align: middle;">Vertical</td> <td> Base boom section $B \leq 16.2$ 2nd boom section $B \leq 16.6$ Top boom section $B \leq 16.2$ </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Lateral</td> <td> Base boom section $C \leq 10.8$ 2nd boom section $C \leq 11.1$ Top boom section $C \leq 10.8$ </td> </tr> </table>	Vertical	Base boom section $B \leq 16.2$ 2nd boom section $B \leq 16.6$ Top boom section $B \leq 16.2$	Lateral	Base boom section $C \leq 10.8$ 2nd boom section $C \leq 11.1$ Top boom section $C \leq 10.8$	<p>$B \leq 1.5 \times L / 1000$ L: Boom length of each boom section</p> <p>$C \leq 1.0 \times L / 1000$ L: Boom length of each boom section</p>
Vertical	Base boom section $B \leq 16.2$ 2nd boom section $B \leq 16.6$ Top boom section $B \leq 16.2$					
Lateral	Base boom section $C \leq 10.8$ 2nd boom section $C \leq 11.1$ Top boom section $C \leq 10.8$					
<p>Presence of indentions at boom overlap section (bend of floor plate)</p>  <p style="text-align: center;">IWY01-001003</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2nd boom section</td> <td>$D \leq 3.0$</td> </tr> <tr> <td>Top boom section</td> <td>$D \leq 2.3$</td> </tr> </table>	2nd boom section	$D \leq 3.0$	Top boom section	$D \leq 2.3$	<p>$D \leq t/2$</p>
2nd boom section	$D \leq 3.0$					
Top boom section	$D \leq 2.3$					
<p>Check for deformation of side plate</p>	<p>Free of large deformation, particularly on the compression side (where larger load is applied than other places of the plate).</p>					
<p>Check for twisting in the lengthwise direction when boom is fully extended</p>  <p style="text-align: center;">IWY01-001004</p>	<p>$E \leq 5$</p>					
<p>Check for dents and other localized indentation.</p>  <p style="text-align: center;">IWY01-0010E05</p>	<p>$F \leq 2$</p> <p>Check the dents whose L_1 is 50 or larger.</p> <p>Generally dent G on the 4 corners cannot be repaired.</p>					

Adjusting Procedure (Hydraulic)

Pressure adjusting position and pressure measuring position (Lower frame)



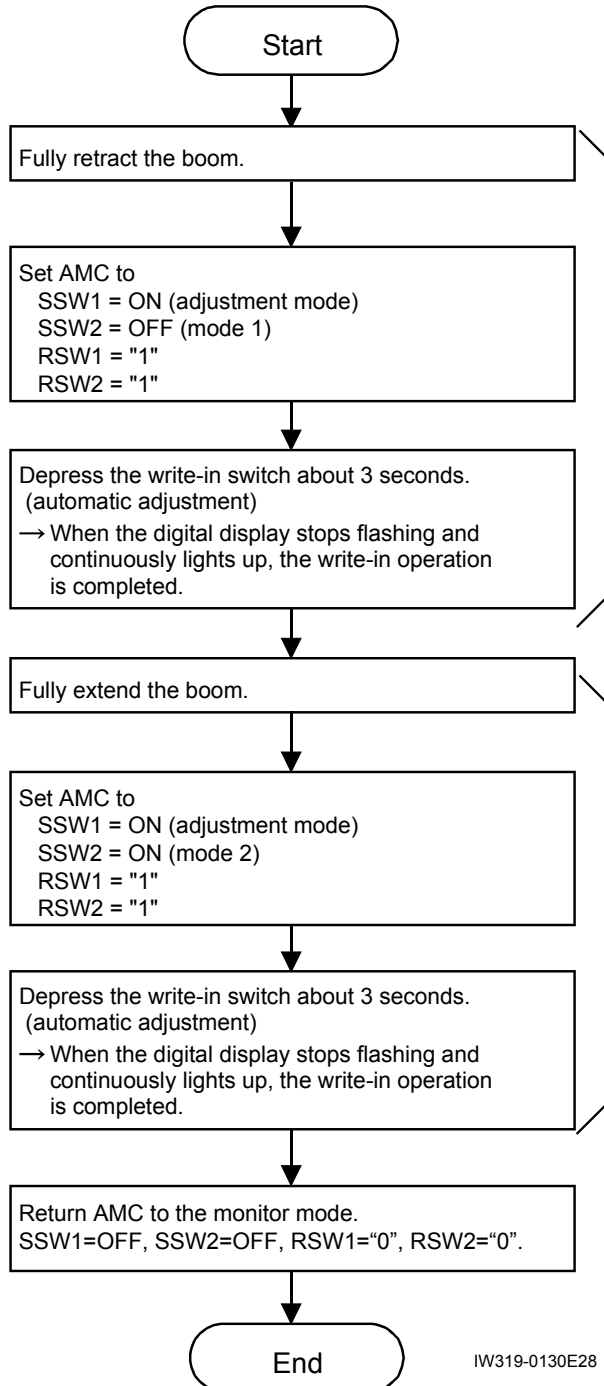
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- 444-011-00110 

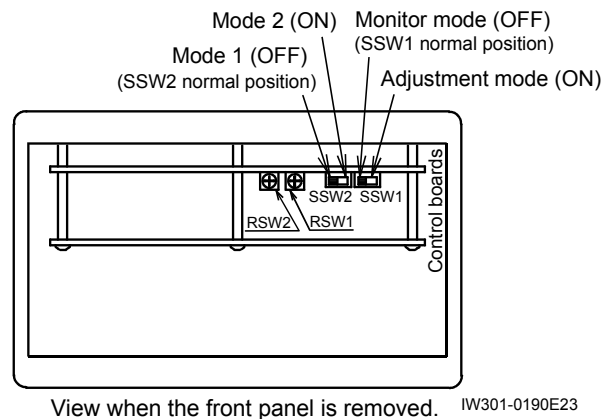
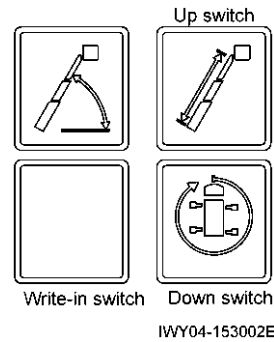
Adjusting Procedure (Electric)

4. Adjustment of AMC

4.1 Adjustment of boom length detector zero/span



Switch layout



The zero point displayed value and the span point displayed value when normal are as follows.

- Zero point displayed value: $9.80^{+0.03}_{-0.04}$ m
- Span point displayed value: $24.20^{+0.03}_{-0.04}$ m

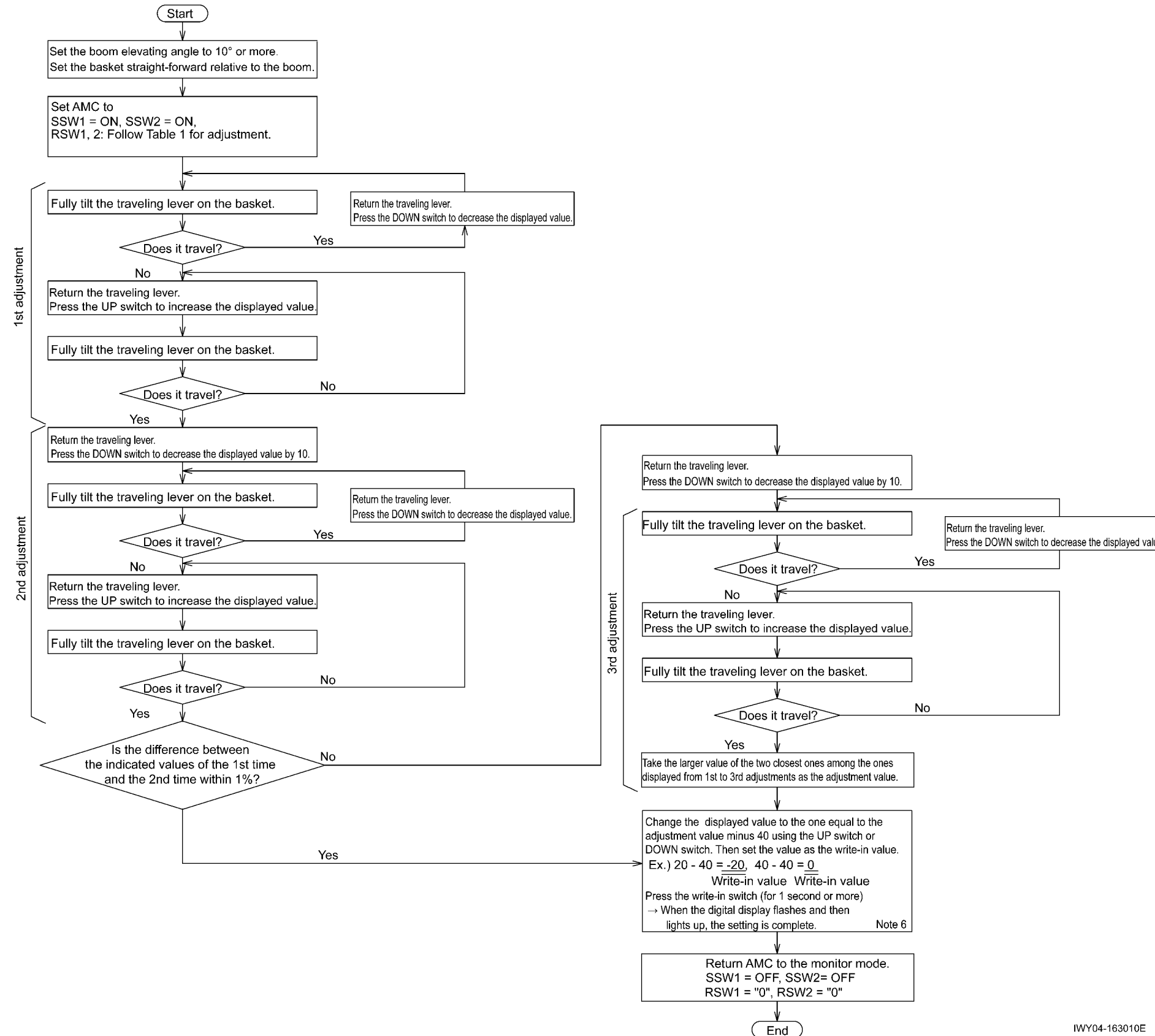
[NOTICE]

- ◆ Adjust with safe boom direction and boom angle even when the boom fully extended.
- ◆ When extending the boom fully, use the emergency controls.
- ◆ If pressing the write-in switch cannot make the digital display stop flashing, take the following measures.
 1. Release the write-in switch, and wait for 1 second or more.
 2. Press the write-in switch again for 1 second or more.
 When the digital display lights up, the write-in operation is completed.
- ◆ Operate the boom to check that the written value is within the range of the tolerance after adjustment. When checking the written value, also change SSW and RSW of the AMC to the same positions as adjustment.
 - When checking zero adjustment value
SSW1 = ON, SSW2 = OFF
RSW1 = "1", RSW2 = "1"
 - When checking span adjustment value
SSW1 = ON, SSW2 = ON
RSW1 = "1", RSW2 = "1"

Adjusting Procedure (Electric)

4.7 Offset adjustment for traveling operation valve

In order to increase the accuracy of slow start and slow stop, perform the following adjustment to store "operation signal voltage at the point when the machine starts to travel" into the AMC.



[NOTES]

1. Increase or decrease the displayed value 1 by 1 for adjustment unless otherwise specified.
2. Measure each operation twice, and if the dispersion is 1% or less, write in the value obtained by subtracting 40 from the second adjustment value. However, if the dispersion exceeds 1%, make a third measurement and write in the larger value of the closest two among the three measured values.
3. Set both of the accelerator switch and travel speed select switch to "L" during adjustment.
4. To eliminate an error due to backlash of the detector, start the adjustment after slightly operating the control toward the direction of the adjustment.
5. Make this adjustment with the hydraulic oil temperature $45 \pm 5^\circ\text{C}$.
6. If pressing the Write-in switch cannot make the digital display stop flashing, take the following measures.
 1. Release the Write-in switch, and wait for 1 second or more.
 2. Press the Write-in switch again for 1 second or more.
 When the digital display lights up, the write-in operation is completed.

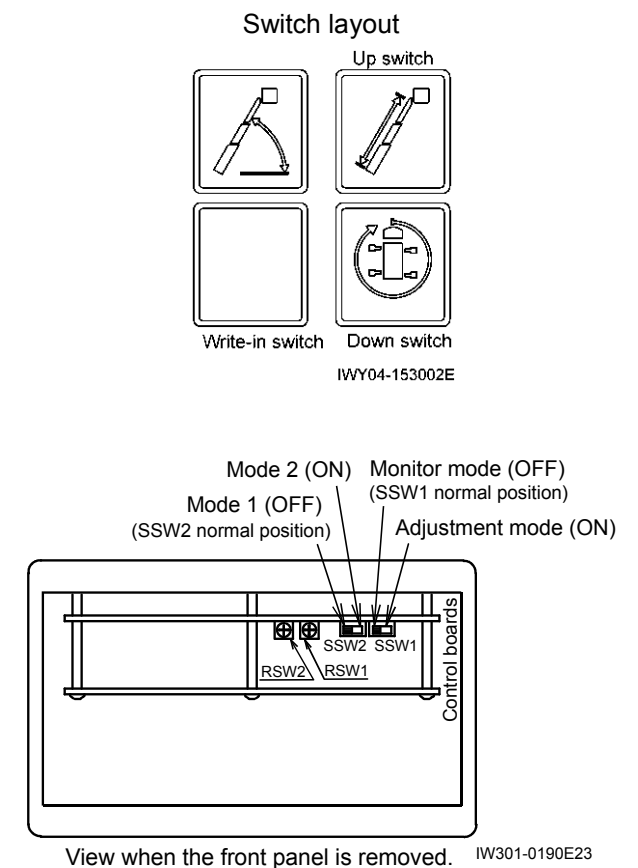


Table 1: RSW1 and RSW2 selecting position and adjusted item comparison

RSW1 \ RSW2	8	...	A
C	Travel right forward (%)	...	Travel right backward (%)

Adjusting Procedure (Electric)

- Moment detector

[NOTICE]

◆ Check the moment detector by measuring its resistances after switching off the power.

Detector specification	Elevating moment detector		Leveling moment detector	
	Measuring terminal CNA1 F	Standard value	Measuring terminal CNA1 F	Standard value
Bridge resistance	1-22	182±1 Ω	1-23	91±1 Ω
	1-3		1-4	
	5-22		5-23	
	3-5		4-5	
Insulation resistance	1-Swing frame	200 MΩ or more	1-Swing frame	200 MΩ or more
	5-Swing frame		5-Swing frame	
	6-22		6-23	
	3-6		4-6	
Condition for resistance check	<ul style="list-style-type: none"> - Measure after removing CN ML (leveling cylinder moment detector connector). (In order to eliminate a sneak path problem.) - Use a tester to measure at connector CNA1 (female) on AMC. 		<ul style="list-style-type: none"> - Measure after removing CN M (elevating cylinder moment detector connector). (In order to eliminate a sneak path problem.) - Use a tester to measure at connector CNA1 (female) on AMC. 	

Inspection and Maintenance

11. Swing system

Refer to operation and maintenance manual of the applicable model for the following items.

1. Maintenance table
2. Swing bearing mounting bolt check

12. Electrical system

Refer to operation and maintenance manual of the applicable model for the following items.

1. Maintenance table
2. Battery electrolyte level check
3. Replacing fuses

13. Boom

Refer to operation and maintenance manual of the applicable model for the following items.

1. Maintenance table
2. Adjustment of tension in telescoping wire rope
3. Adjustment of tension in hoses and cable inside boom
4. Slide plate wear check

14. Oils and greases

Refer to operation and maintenance manual of the applicable model for the following items.

1. Oils and greases table
2. Recommended oils and greases

15. Consumable parts

Refer to operation and maintenance manual of the applicable model for the following items.

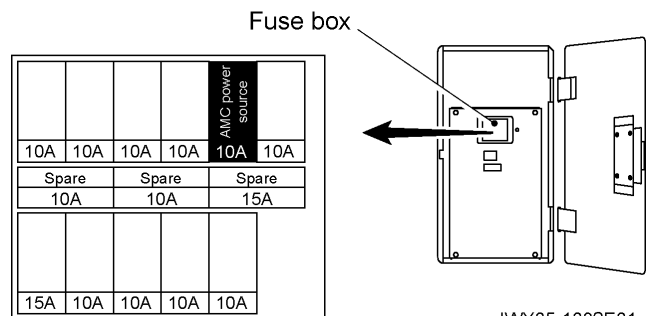
1. Filters
2. Fuses

16. Others (compulsion release method)

⚠ WARNING

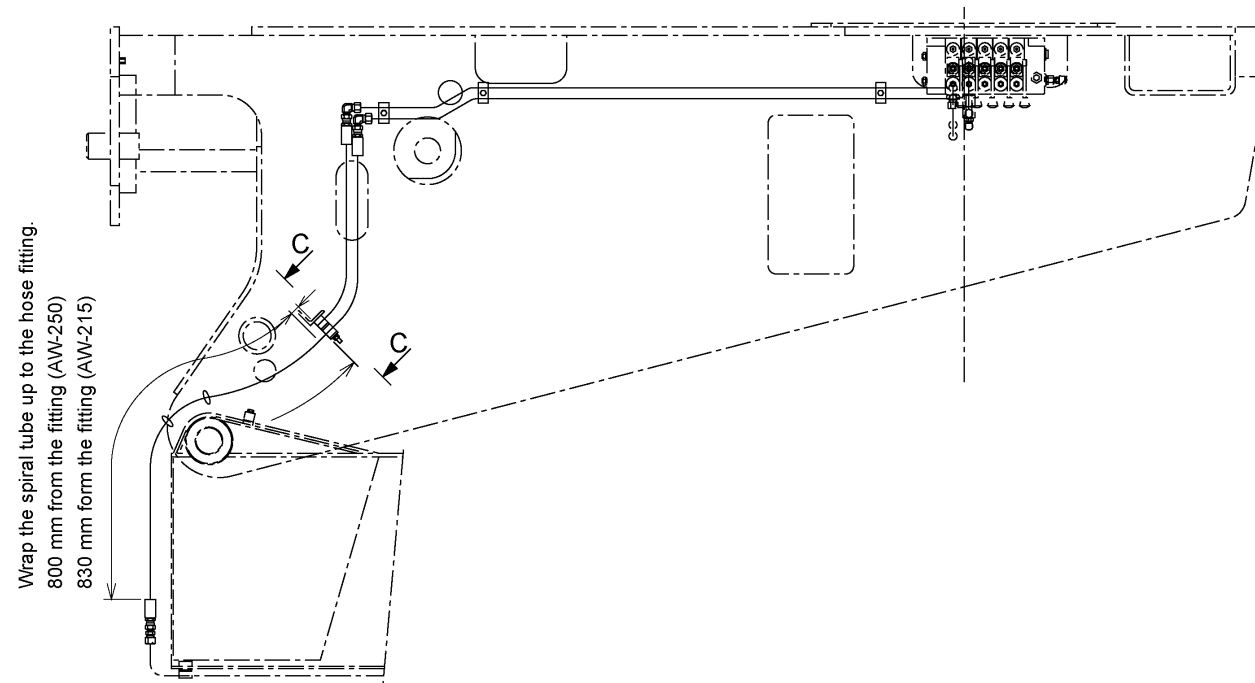
⚠ Because overload protector (AMC3) does not operate, work is strictly prohibited in the following condition.
 This is the tentative measure until the aerial platform is put into the state of storage at emergency.
 Install the fuse on the original position promptly after storage.

If the emergency storage operation is impossible with an emergency switch, detach the fuse (AMC power source) shown in the figure below. (Operation is available.)

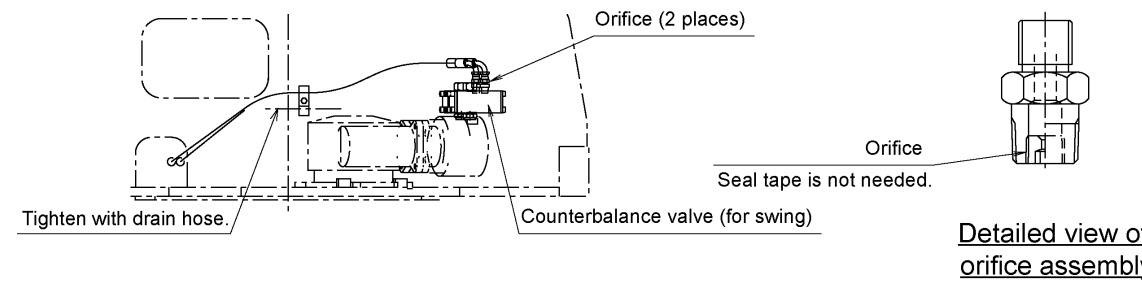
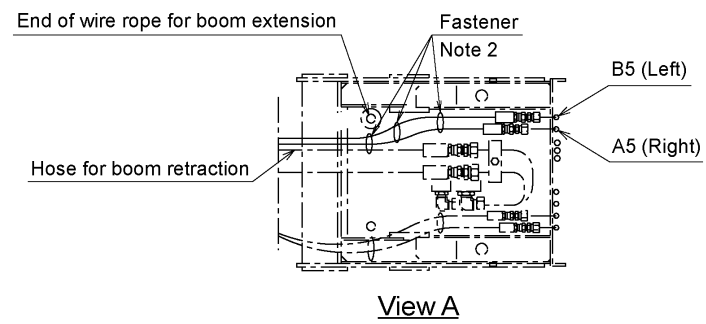
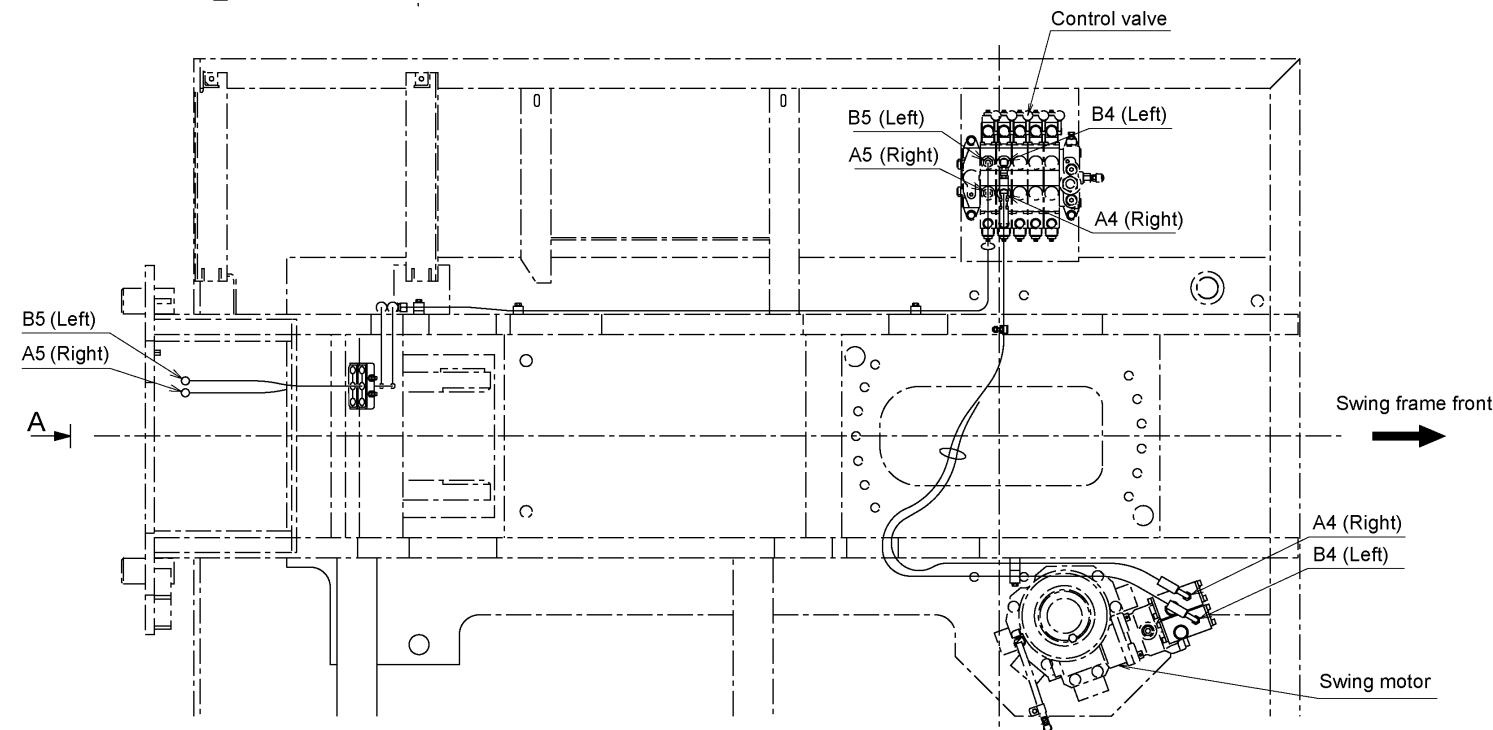
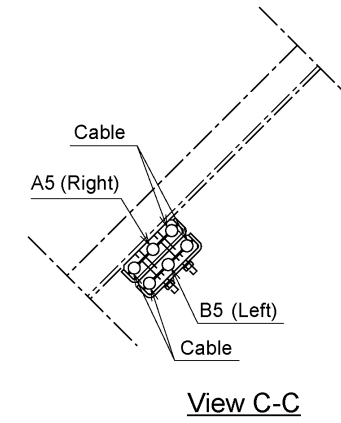


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2. Swing



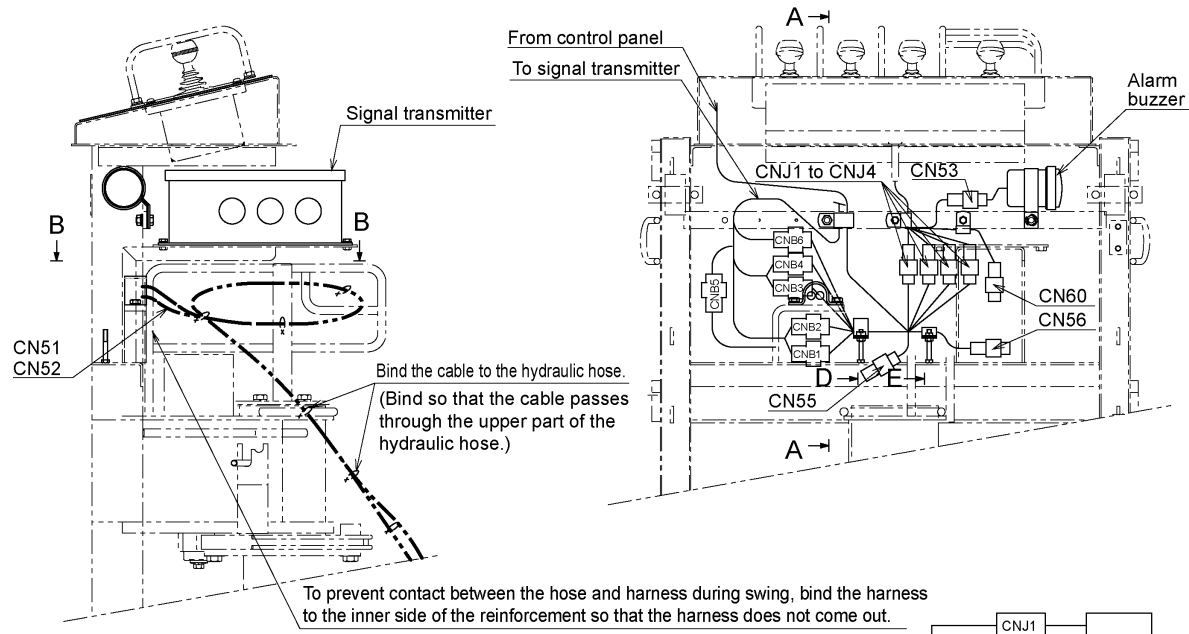
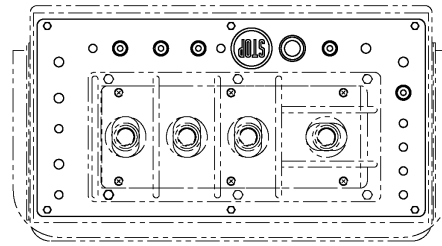
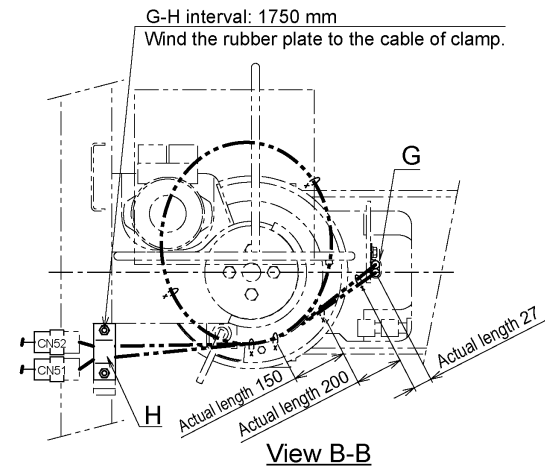
- Note
1. Properly use fasteners to bind the hose.
 2. Bind the adjoined hose for boom retraction to the rear end of the boom so that the hose does not reach the area for wire end R25.



IWZ07-280001E

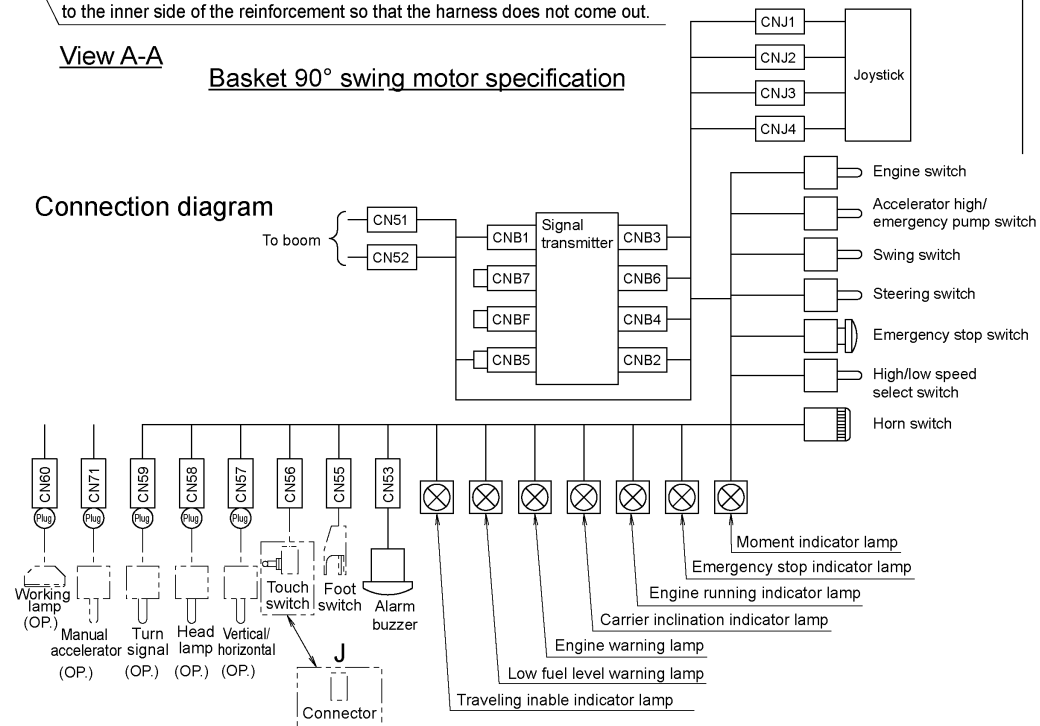
Z-9 Location of Electric Parts (Basket)

1. Basket wiring

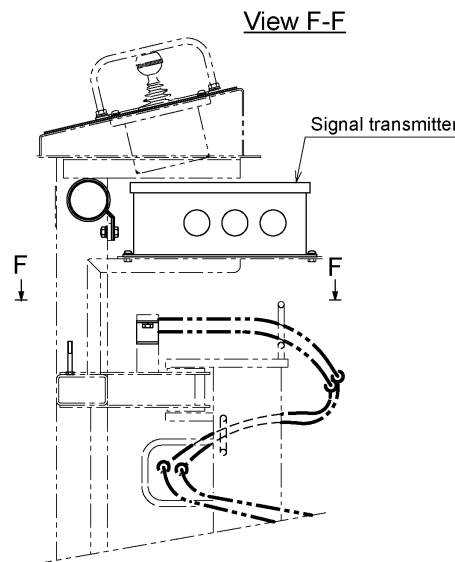
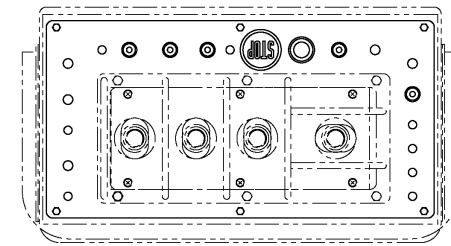
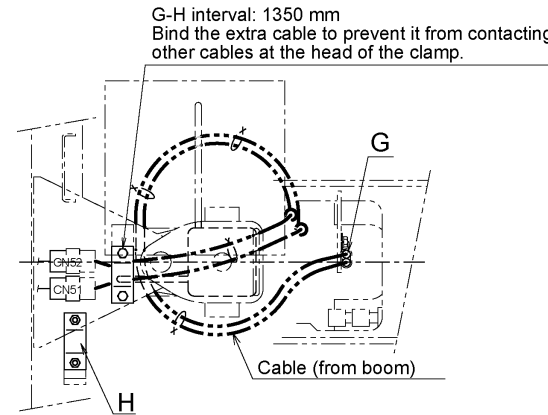


Basket 90° swing motor specification

Connection diagram

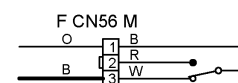


Note
1. After installation, check for operation so that the fastener which binds the cables and hoses does not catch the cable guide.
In addition, the hose smoothly slides around the post while it does not strongly push the harness.

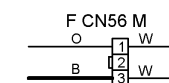


Basket 60° swing cylinder specification

For touch switch



For connector



Circuit diagram of J

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