HANGCHA

Aerial Work Platform (AWP)- Electric Articulating Boom Lift

Operation Manual

(NOTICE ORIGINALE)

GTHZ120 GTHZ170 GTHZ170C

HANGCHA GROUP CO., LTD.
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This operation manual should be kept permanently for further reference. It should also be read and understood carefully by the operators.

Preface

Thank you for purchasing this machine manufactured by HANGCHA GROUP CO., LTD! You should master the requirements for use and operation of the machine before working with it! Any operation of the machine may bring risks. You can only effectively prevent personal injury, property damage and accidents by mastering the safety rules and operating with due care and attention. We need to work together for your safety!

The machine is only intended to transport people and tools to the working position and allow people to operate on the work platform. The safety of people is closely related to operation and use of the machine. It is essential to train competent and attentive people to use the machine and operate it safely. Only fully trained and authorized personnel should operate the machine.

This manual is intended to guide the user/operator in operation and use of the machine. Before operating and using the machine, the user/operator has a responsibility to read, understand and follow this manual and the manufacturer's instructions. He/she should read, understand and follow safety rules and operating instructions, consider the parameters and intended environment of the machine, as well as strictly observe the requirements for safe operation.

This manual, together with the Maintenance Manual and the Parts Manual, should be considered as part of the machine. They should always be kept with the machine! Also, the keeper of the machine should ensure that all necessary information from the manufacturer regarding the operation and routine inspection/maintenance of the machine is provided to anyone who rents it. If the machine is sold, all the information should be provided with it. The keeper of the machine should also provide the maintenance personnel in charge of the machine with the maintenance information from the manufacturer.

Some contents in this manual may be different from your machine due to continuous design updates and product improvements.

For any queries, please contact the sales company or agent of HANGCHA GROUP CO., LTD.

Ⅰ. Overview

Original Parts

Original parts must be used to repair our aerial work platform series products.

The use of non-original parts may lead to the following dangerous situations:
-Legally, you will be liable for accidents that occurred due to the use of non-original parts.
-Technically, the use of non-original parts will have a significant impact on the operation and service life of the machine.



The warranty is likely to be voided due to the use of poor counterfeits and parts not approved by the manufacturer.

If you use original parts for maintenance and repair,
you will enjoy the following special benefits from the manufacturer:
-Proprietary technology and capabilities
-Quality assurance agreement
-Replacement of old parts with original parts
-Assistance with maintenance and repair to prevent damage to the machine
-Effective diagnosis of the machine
-Updating of the product in a timely manner
-Training in the operation of the product
-The best technical support and maintenance provided by the manufacturer which is most familiar with the details of the product

Instructions for Operators

When you see this symbol, it means:



Beware! Be careful! Your safety may be at risk!

General:

A-Operation manual

-Read and understand the operation manual carefully.

-The manual must always be placed in an easily accessible place on the machine and should be prepared in the language applicable to the operator.

-All operation and maintenance not described in the manual must be authorized and approved by the manufacturer.

-Observe the safety rules indicated on the aerial work platform.

-Replace all illegible paper signs and nameplates.

B-Operator certification

-Only trained and certified personnel are allowed to use the aerial work platform. The training must be conducted by the responsible staff.

-For safety reasons, there must be another operator present on the site during the operation of the aerial work platform.

-Understand that the machine must be operated on level ground.

-The operator must not authorize another person to operate the aerial work platform.

-Operation must be carried out in accordance with relevant professional standards.

-Do not use the aerial work platform when the wind speed is likely to exceed 45km/h. The booms of the aerial work platform cannot withstand lateral pressure greater than 45kg.

-Always wear a safety helmet.

-We strongly recommend that you wear a safety belt when using the machine.

-Installing a separate warning light will allow your aerial work platform to be repaired without the need to place warning signs. For more information on other optional devices, contact your dealer.

C-Maintenance

-The user must immediately notify the dealer if he/she finds that the aerial work platform fails to operate properly or comply with safety rules.

-The operator must not do any maintenance and commissioning work independently. If he is responsible for this work, he must move the aerial work platform to a clean and tidy location before working on it.

-Do not short or disconnect any safety devices.

-Carry out routine maintenance every day

-For the safety of you and others, do not change the structure of the aerial working platform and commissioning values of various parts without permission.

Hydraulic system pressure

Parameters of the pressure limiting valve

Adding parts

If an accident occurs as a result, the operator will be liable for it.

-We recommend that you check the machine on a regular basis and maintain it properly.

-Do not replace the original battery with a lighter one (to ensure the stability of the machine).

If necessary, contact your dealer.

Instructions for Driving

A- Control box layout

1. Wear clothes suitable for operating the aerial work platform. Do not wear loose clothes.

2. Do not use wet hands or wear wet or contaminated shoes while operating.

3. Do not stick your feet or any other parts of your body out of the basket while operating.

4. Always wear a safety helmet.

5. We strongly recommend that you wear a safety belt when using the machine.

B-Before starting the aerial work platform

1. If this is a brand new machine, refer to Part 1 Safety Instructions and Rules in the Section "Before Using the Aerial Work Platform for the First Time".

2. Check whether the tires are in good condition.

3. Check the hydraulic oil level and the battery level before starting the machine.

4. Regardless of previous relevant experience, the user must also become familiar with the locations and uses of all controllers prior to operation.

5. The aerial work platform must be in the transport condition (with all booms retracted) before entering the basket for operation.

6. The aerial work platform must be used on a level surface.

C-Operating the Aerial Work Platform

Safety rules

1. Do not use the aerial work platform when the battery level is low or the machine moves slowly. In some cases, such situations (low battery level and slow movement) can be avoided by routine inspection.
2. Do not use a machine that is not in good operating condition or which has not been inspected.
3. Wear clothes suitable for operating the aerial work platform. Do not wear loose clothes.
4. If you operate in a noisy environment, be ready to issue relevant warnings at any time.
5. Look around during the operation, and ensure good vision to see the road clearly.
6. Stop moving forward in the event of an emergency.
7. Slow down and take care on wet and slippery roads.
8. If there is an obstacle, move around it.
9. To cross a sidewalk, be sure to keep the machine in the transport condition.



Beware of trenches, scaffolding and recently excavated or filled ground.

Instructions for Operation

-The machine can be operated on the ground: No one else should approach it during operation.
-An aerial work platform should not be used as a crane or a lifter to transport goods and people continuously.
-When operating the AWP for lifting, look around to make sure there are no people or objects causing an obstruction and avoid incorrect operation.
-When working in the proximity of power lines, refer to current regulations to ensure a safe distance between the AWP and the power lines.



You need to communicate with the local electric power department.



If you park or work with the AWP near power lines, you may suffer an electric shock or a severe injury. Therefore, we strongly recommend that you refer to the local regulations and follow the rules for working near power lines.

-Do not operate the aerial work platform if it is overloaded.
-Never work above people.
-Check whether all components of the aerial work platform (square tubes, cables, etc.) are installed correctly.
-Do not place any ladders or other objects inside the platform (basket) to reach a greater height.
-Do not operate the aerial working platform from the ground when there are people inside the platform (basket). The ground controller is only used for emergency operation (e.g.if the operator in the platform （basket） suffers a sudden illness) and maintenance.

Contact your dealer where necessary.

Instructions for AWP Maintenance

Instructions for Maintenance

A. General

-Read the manual carefully.

-Clean the aerial work platform and its surroundings before maintenance.

-Wear clothes suitable for maintenance. Do not wear jewelry and loose clothes. If necessary, tie your hair up to protect it.



Dispose of waste consumable parts and spare parts in a safe and environmentally-friendly manner.

-Carry out maintenance immediately even if the problem is minor.

-Repair all leaks, even small ones.

-Do not loosen any joints, hoses or hydraulic parts while the hydraulic circuit is pressurized.



If you park or work with the AWP near power lines, you may suffer an electric shock or a severe injury. Therefore, we strongly recommend that you refer to the local regulations and follow the rules for working near power lines.

-Remove the controllers before welding.

-Do not remove any metal parts of the battery by yourself.

-The battery case can only be opened by authorized personnel.

B.Maintenance

-Clean all oil stains off the aerial work platform.

-Clean the aerial work platform and the site where it will work before all operations.

-Do not rinse the machine with a high-pressure water gun in the proximity of the electrical components.



Where necessary, protect components, electrical components in particular, from being damaged by penetration of water, vapor or cleaning products.

-Maintenance of the aerial work platform must comply with the requirements.

-Perform routine maintenance (refer to B - Daily Maintenance or Maintenance After 5 working hours)

Before Using the Aerial Work Platform for the First Time

Instructions

-Our aerial work platform can provide you with convenient operation and easy maintenance.

-Before using the aerial work platform for the first time, the user must read each section of this manual carefully. It can help you solve all operation and maintenance problems. Using these instructions will help you to operate the aerial work platform better.

-The user must understand roles and locations of different function prompts on the controller before operating the aerial work platform.



Do not use a brand new aerial work platform until you have done the following inspections.

Lubricant

-Check whether the lubricant is added as specified (refer to Periodic Maintenance).



The added lubricant should suit the local weather conditions, -15° to 40°. Before the first use, add the appropriate lubricant according to the ambient temperature.

Hydraulic system

-Visually inspect gaskets, hoses, square tubes and joints for oil leaks. Where necessary, tighten or check joints for problems.
-Check the oil level of the tank.

Tires

-Make sure all tire nuts are set in place (refer to Part C Every 50 working hours).

Electrical system

-Check the capacity and specific gravity of the electrolyte in the battery.
-Check the components of the electrical system, such as wiring harnesses and retaining clips.

Contact your dealer where necessary.

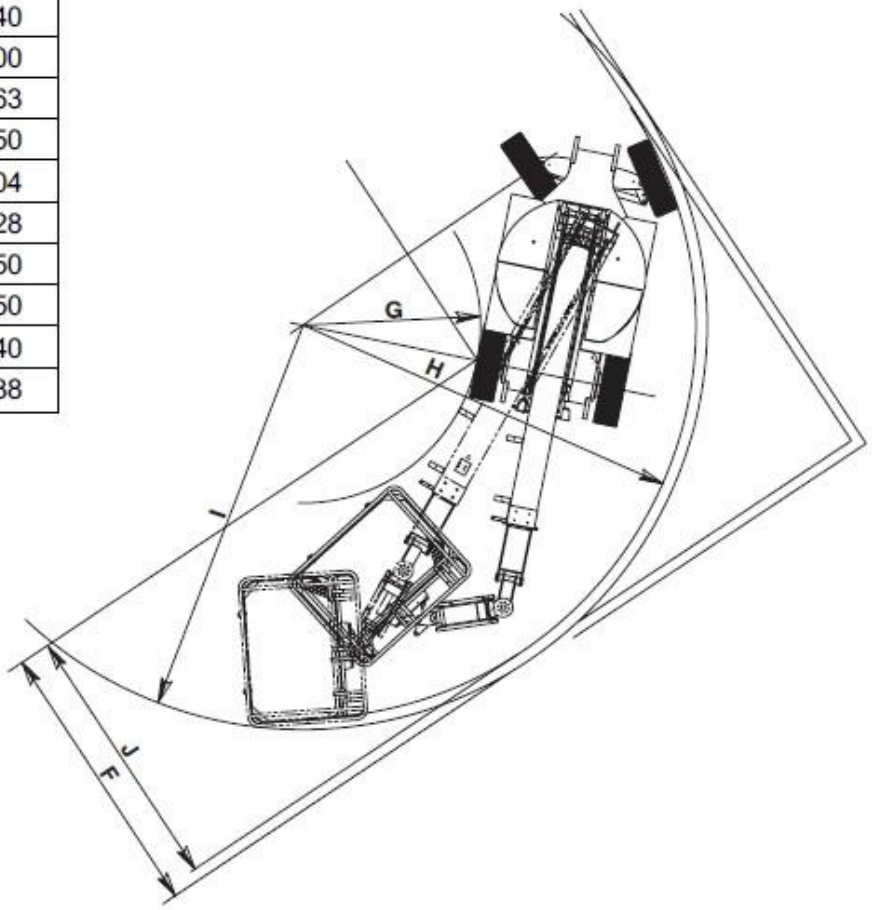
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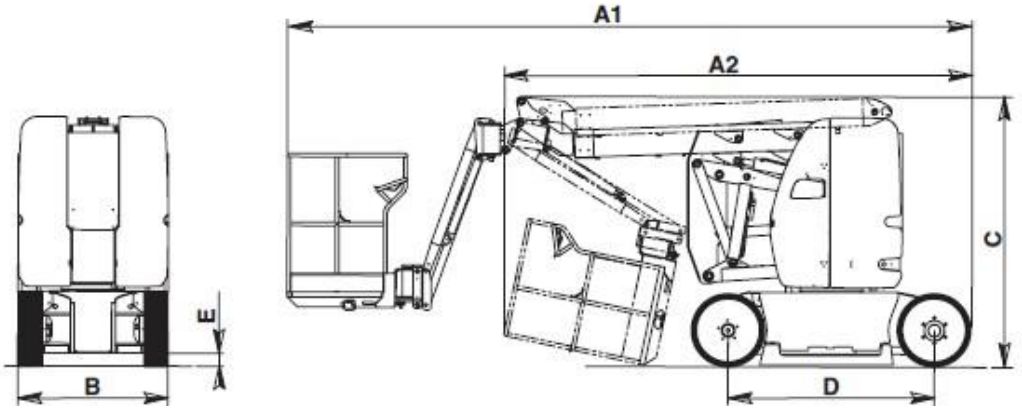


Dimensions

GTHZ120

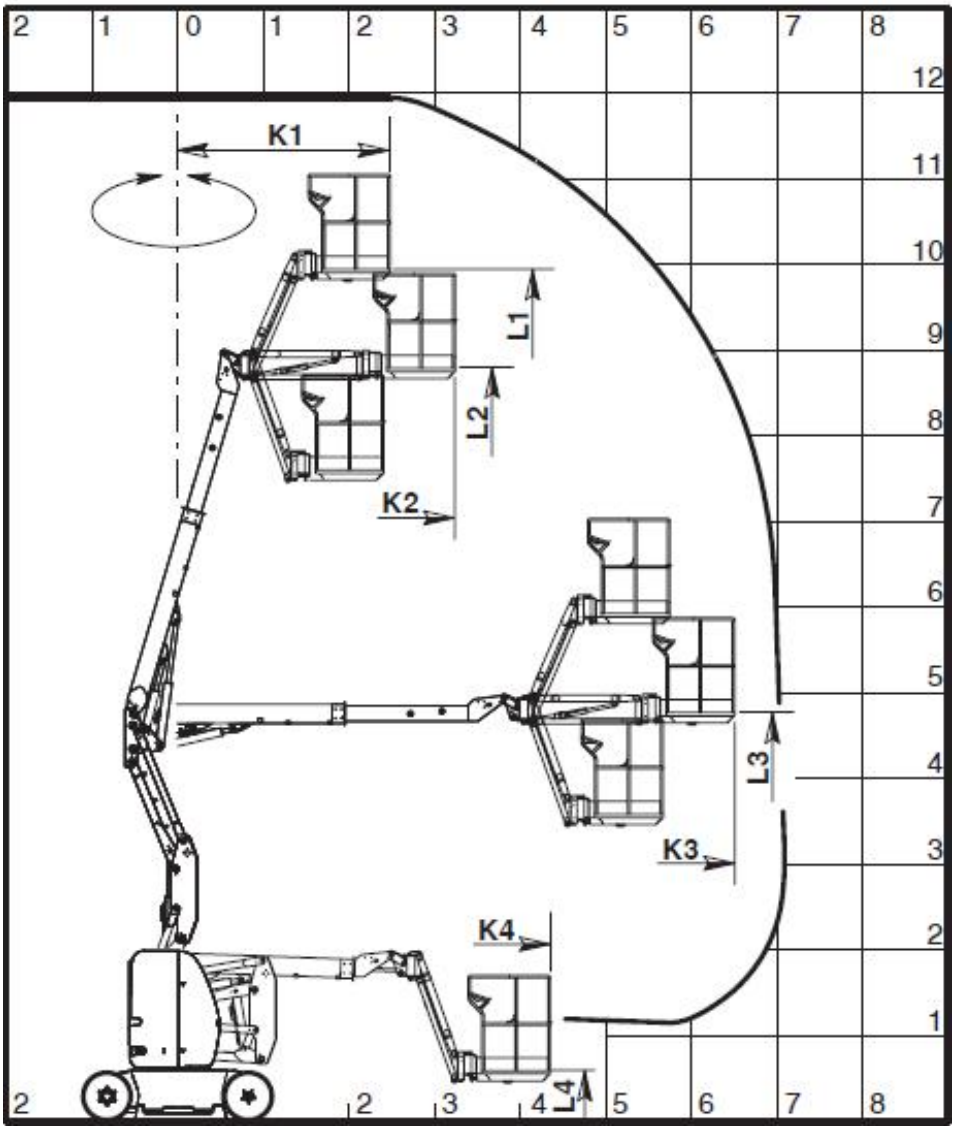
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B	1200
C	2163
D	1650
E	104
F	2228
G	1550
H	3250
I	3340
J	2138





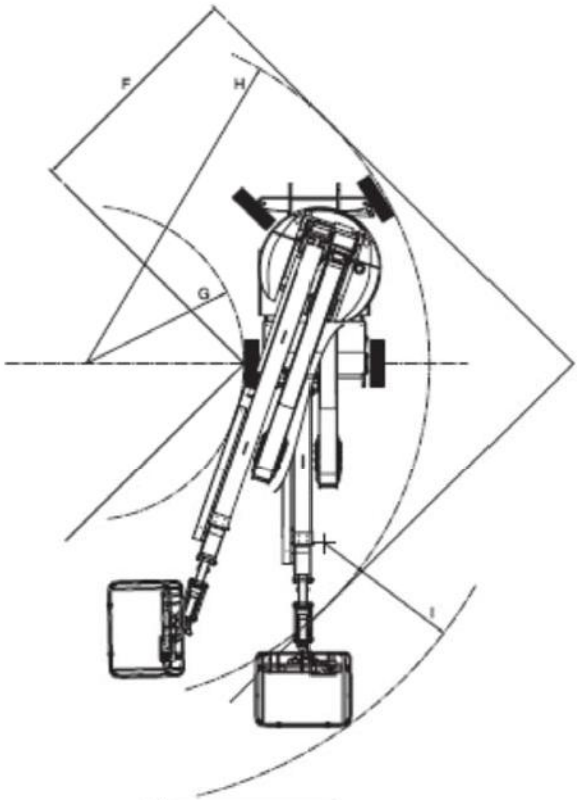
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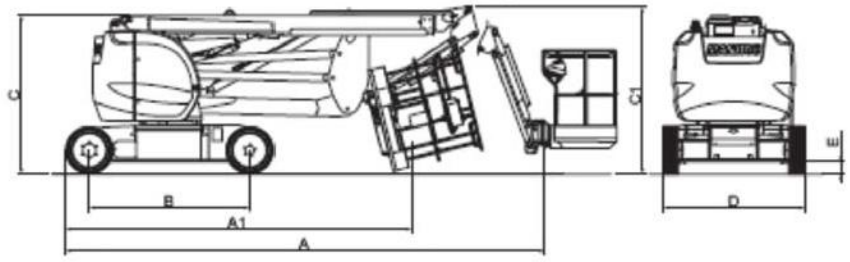
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K3	6506
K4	4353
L1	9950
L2	8794
L3	4773
L4	595



GTHZ17

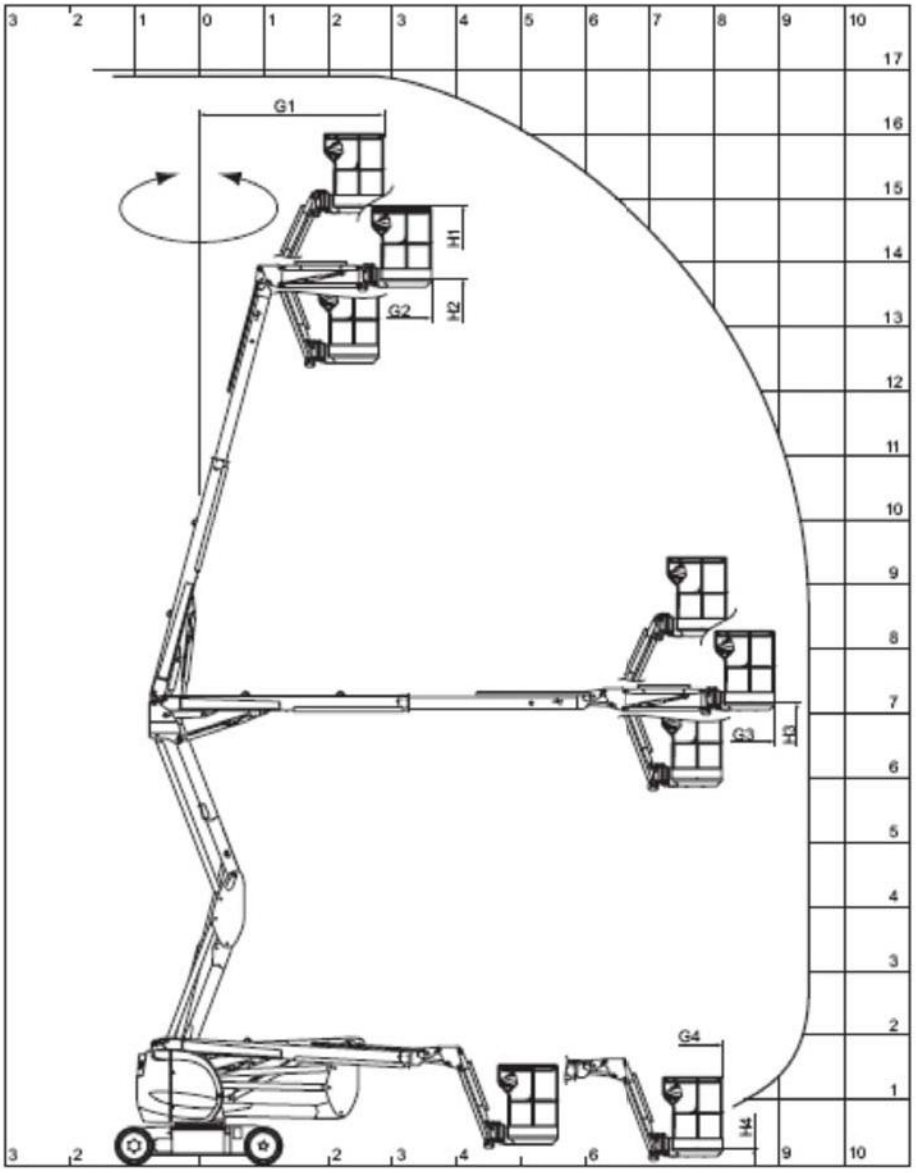
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C	1970
C1	2040
D	1750
E	143
F	2890
G	2005
H	4300
I	5600





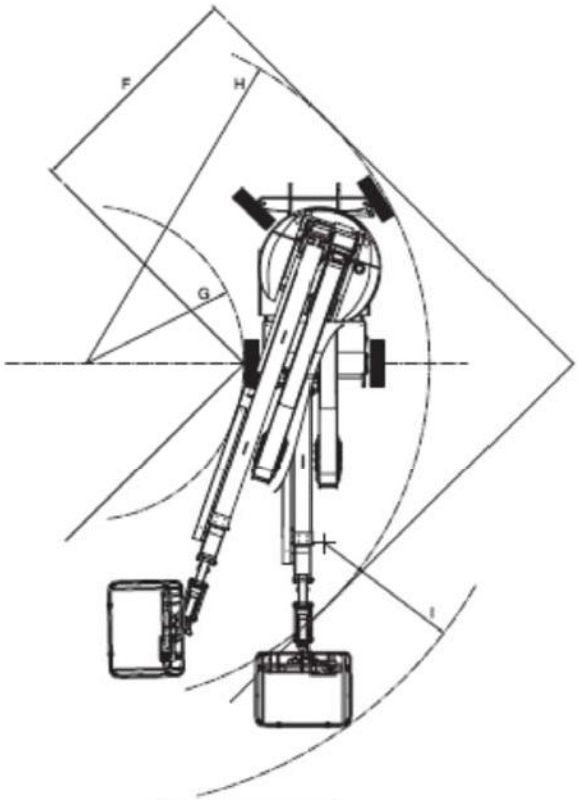
GTHZ170

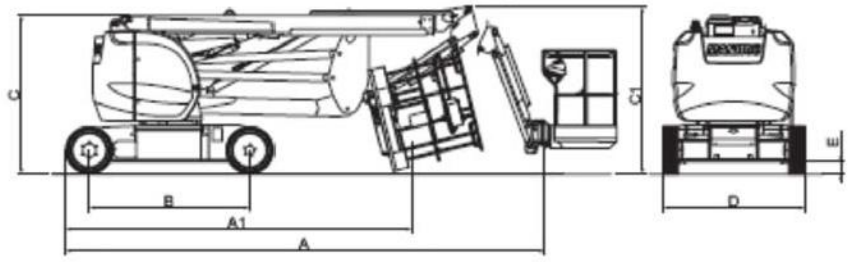
G1	2840	H1	14910
G2	3600	H2	13750
G3	8930	H3	7160
G4	8130	H4	270



GTHZ170

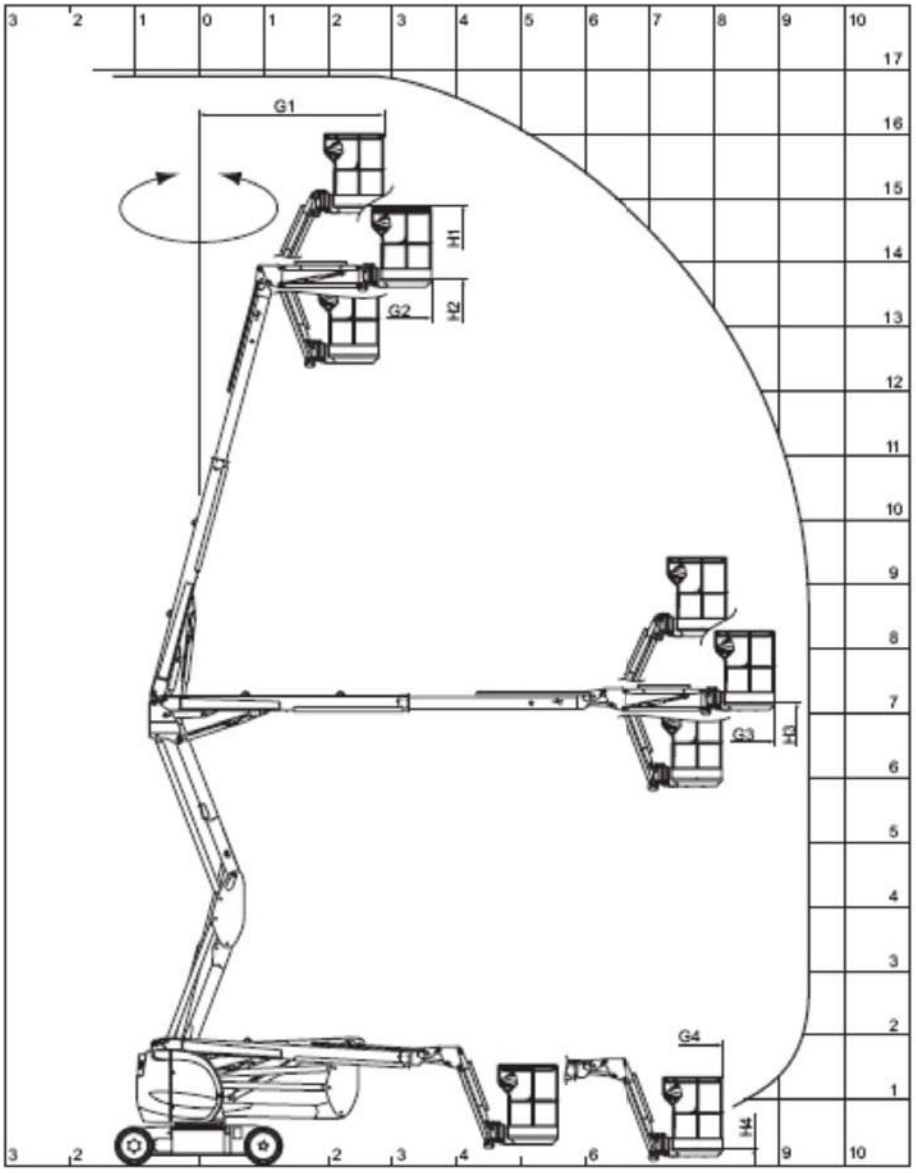
A	6840
A1	5120
B	2000
C	1970
C1	2040
D	1750
E	143
F	2890
G	2005
H	4300
I	5600





GTHZ170C

G1	2840	H1	14950
G2	3600	H2	13750
G3	8930	H3	7160
G4	8130	H4	270



Basic Characteristics

Fuel Pump motor

-Rated voltage	48V
-Rated power	3.7kW
-Total volume	4.8cm³
-Pressure	20MPa

Traction motor

-Specifications	4.5kW

Circuits

-Battery	48V-240Ah
-Charger	48V-35Ah

Fuse

-Main module	5A/15A
-Power supply	325A
-Pump driver	100A

GTHZ120

Technical parameters

Applications	Available for both indoor and outdoor applications
Load-carrying capacity	200kg , including two persons
Maximum allowable wind speed during use	45km/h
Control system	Hydraulic - electric
Steering range	350°
Traveling speed in working mode Traveling speed in transport mode	0.6km/h 6km/h
Working height Platform height Maximum extension	11950 mm 9950mm 7000mm
AWP weight ● No load ● Rated load	 6550kg 6750kg
Driving wheel	2
Gradeability	25%
Maximum allowable tilt	5% or 3°

Tires

Dimensions	Type	Tire capacity at no load Front wheel	Rear wheel	Individual tire capacity at full load Front/Rear	Single tire contact area	Tyre Pressure on ground
600x190	Tires	1655kg	1620kg	4200kg	212cm ²	200N/cm²

-Tire nut tightening torque: Front wheel 250N·m

Rear wheel 200N·m

GTHZ170

Technical parameters

Uses	Suitable for both indoor and outdoor use
Load-carrying capacity	200kg , including two persons
Maximum allowable wind speed during use	45km/h
Control system	Hydraulic - electric
Steering range	355°
Traveling speed in working mode Traveling speed in transport mode	0.6km/h 5km/h
Working height Platform floor height Maximum offset	16750 mm 14750 mm 9430 mm
AWP weight ● No load ● Standard load	 7030kg 7230kg
Number of gear positions	2
Gradeability	22%
Maximum allowable tilt	5% or 3°

Tires

Dimensions	Type	Tire capacity at no load Front wheel	Rear wheel	Individual tire capacity at full load Front/Rear	Single tire contact area	Tyre pressure on ground
600x190	Tires	1570kg	1945kg	4200kg	212cm²	200N/cm²

-Tire nut tightening torque: Front wheel 250N·m
Rear wheel 200N·m

Basic Characteristics

Fuel pump motor

-Rated voltage	48V
-Rated power	3.7kW
-Total volume	4.8cm³
-Pressure	20MPa

Traction motor

-Specifications	3.3kW

Circuits

-Battery	48V-240Ah
-Charger	48V-35Ah

Fuse

-Main module	5A/15A
-Power supply	325A
-Driver	200A

GTHZ170C

Technical parameters

Uses	Suitable for both indoor and outdoor use
Load-carrying capacity	230kg , including two persons
Maximum allowable wind speed during use	45km/h
Control system	Hydraulic - electric
Steering range	355°
Traveling speed in working mode Traveling speed in transport mode	0.6km/h 6.1km/h
Working height Platform floor height Maximum offset	16950 mm 14950 mm 9430 mm
AWP weight ● No load ● Standard load	 7130kg 7360kg
Number of gear positions	2
Gradeability	30%
Maximum allowable tilt	5% or 3°

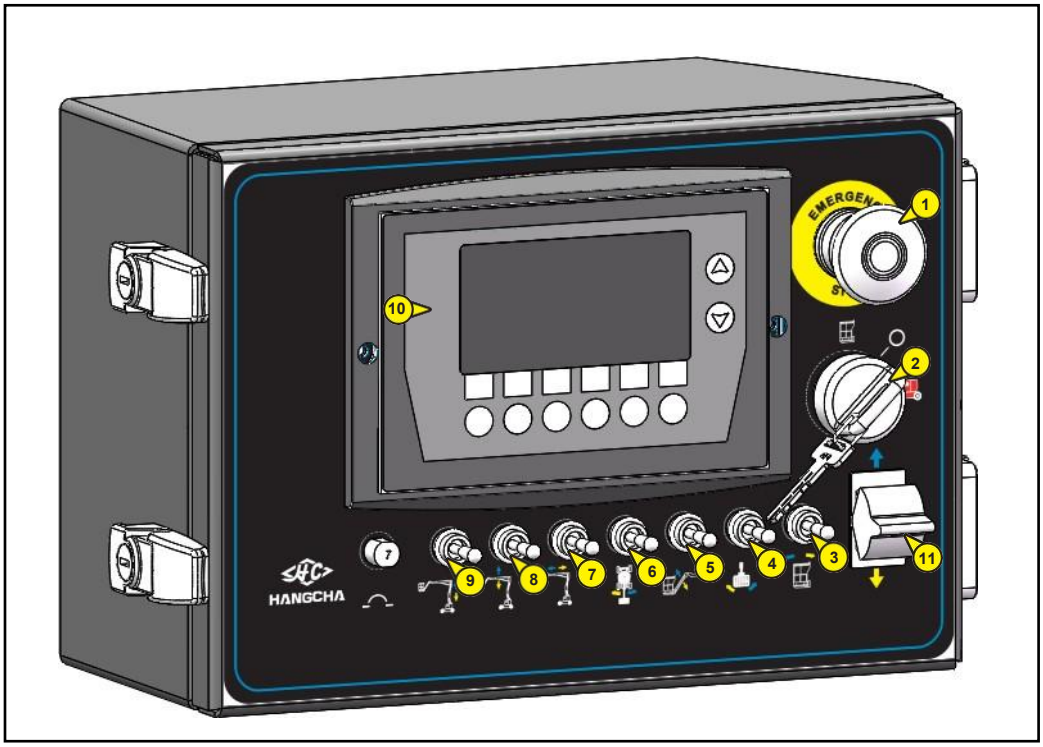
Tires

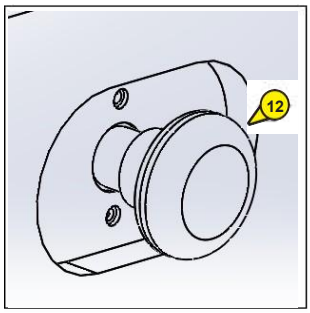
Dimensions	Type	Tire capacity at no load Front whee lRear wheel		Individual tire capacity at full load Front/Rear	Single tire contact area	Tyre pressure on ground
730x225	Tires	1595kg	1970kg	4200kg	212cm²	200N/cm²

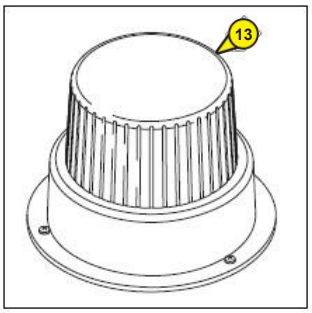
-Tire nut tightening torque: Front wheel 250N·m
Rear wheel 250N·m

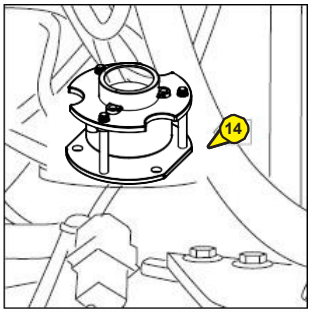
Control and Command Instruments

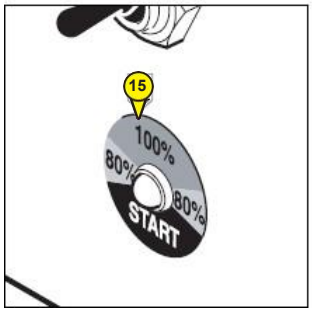
A-Ground Control Panel

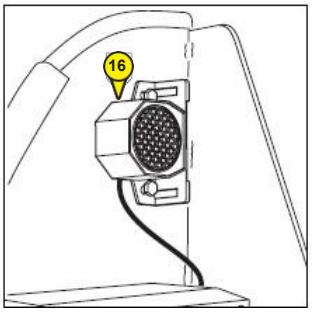


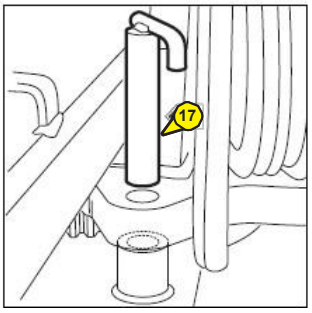










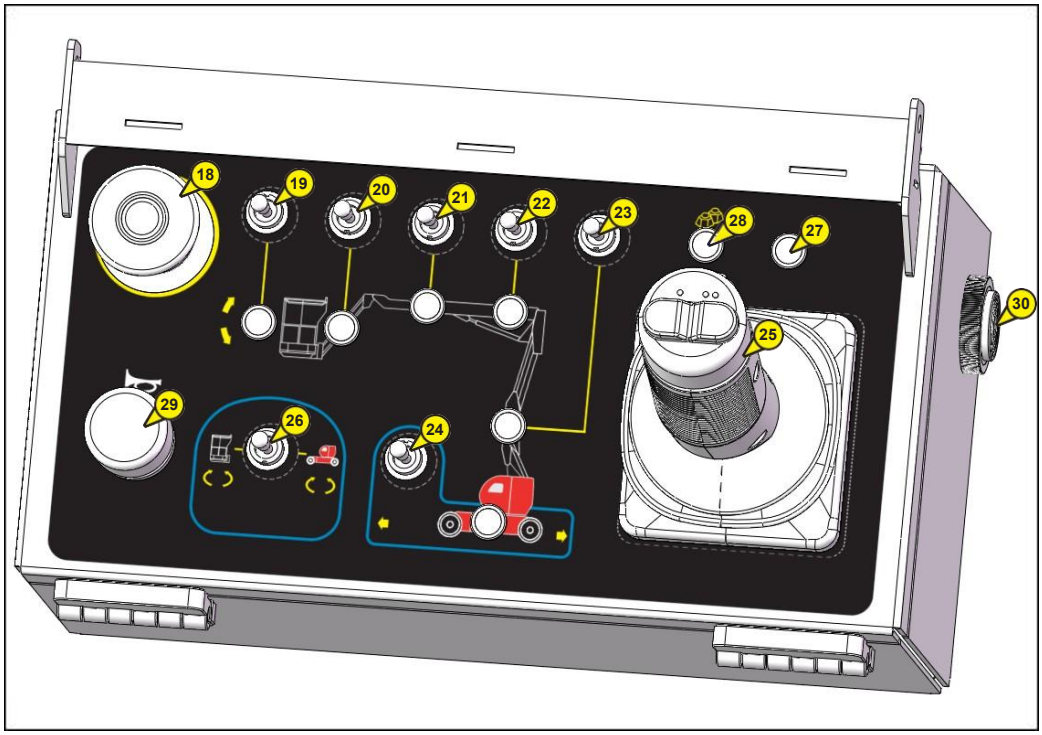


A-Ground Control Panel

1. Emergency stop button
2. Key switch, used to select the ground control mode or the platform (basket) control mode
3. Basket swing button
4. Basket turning button
5. Swing boom lifting/lowering button
6. Lift body turning button
7. Telescopic boom control button
8. Upper folding boom lifting/lowering button
9. Lower folding boom lifting/lowering button
10. LCD
11. Direction selector switch
12. Power switch
13. Flasher(optional)
14. Angle sensor
15. Charging indicator light
16. Buzzer
17. Lift body rotation stop dowel

Control and Command Instruments

B-Basket Control Box



18. Emergency stop switch
19. Basket swing button
20. Swing boom lifting/lowering button
21. Telescopic boom control button
22. Upper folding boom lifting/lowering button
23. Lower folding boom lifting/lowering button
24. Traveling button
25. Control button
26. Turning part selector button
27. Tilt warning light
28. Overload and controller fault warning indicator light
29. Horn
30. Warning buzzer

Instructions for Basic Control Commands and Functions

1.Emergency stop switch



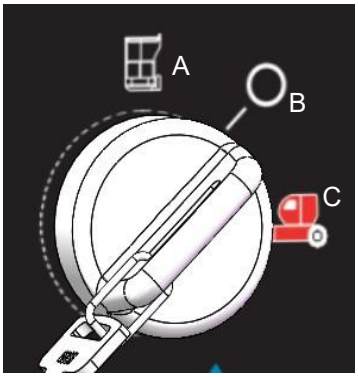
This switch is used to stop all movements of the lift in the event of a sudden breakdown.

-Press the button to stop all movements.

-Rotate the button a quarter of a turn to the right to restart. (The button will automatically return to its original position.)

This command is valid in all cases, even if you are operating in the basket.

2. Key switch to select ground control or basket control



This is a selector switch.

A: to select basket control

B: to turn the control system off (for removing the key)

C: to select ground control

3. Basket tilt button



This button is used to adjust the levelness of the platform (basket) or fully retract the basket in the transport condition.

Adjusting the basket up

-Turn the ground/basket control selector switch to the ground control position.

Move button 3 up and hold it, and push the direction selector button 11 up.

Adjusting the basket down

Turn the ground/basket control selector switch to the ground control position.

Move button 3 up and hold it, and push the direction selector button 11 down.

4. Basket turning button



This button is used to turn the basket.

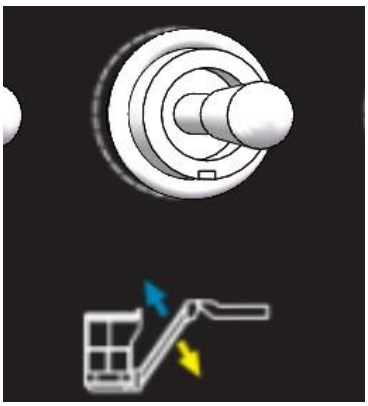
Turning to the right

-Turn the ground/basket control selector switch to the ground control position. Move button 4 up and hold it, and push the direction selector button 11 up.

Turning to the left

-Turn the ground/basket control selector switch to the ground control position. Move button 4 up and hold it, and push the direction selector button 11 down.

5. Swing boom lifting/lowering button



This button is used to lift and lower the swing boom.

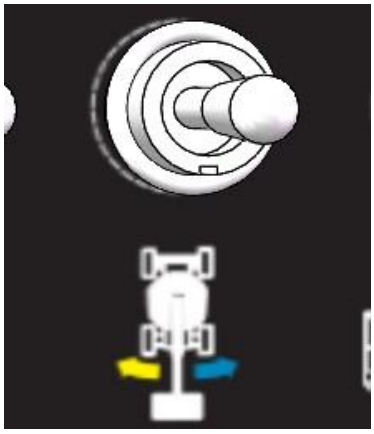
Lifting the swing boom

-Turn the ground/basket control selector switch to the ground control position. Move button 5 up and hold it, and push the direction selector button 11 up.

Lowering the swing boom

-Turn the ground/basket control selector switch to the ground control position. Move button 5 up and hold it, and push the direction selector button 11 down.

6. Lift body turning button



This button is used to turn the lift body.

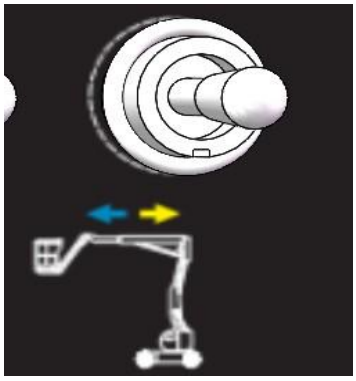
Turning to the right

-Turn the ground/basket control selector switch to the ground control position. Move button 6 up and hold it, and push the direction selector button 11 up.

Turning to the left

-Turn the ground/basket control selector switch to the ground control position. Move button 6 up and hold it, and push the direction selector button 11 down.

7. Telescopic boom control button



This button is used to extend or retract the telescopic boom.

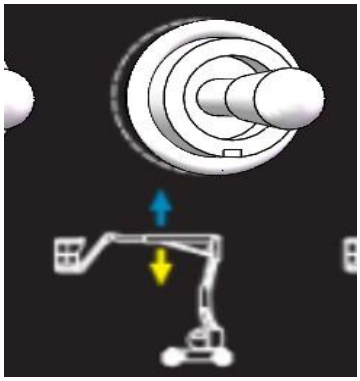
Extending the telescopic boom

-Turn the ground/basket control selector switch to the ground control position. Move button 7 up and hold it, and push the direction selector button 11 up.

Retracting the telescopic boom

-Turn the ground/basket control selector switch to the ground control position. Move button 7 up and hold it, and push the direction selector button 11 down.

8. Upper folding boom lifting/lowering button



This button is used to lift and lower the upper folding boom.

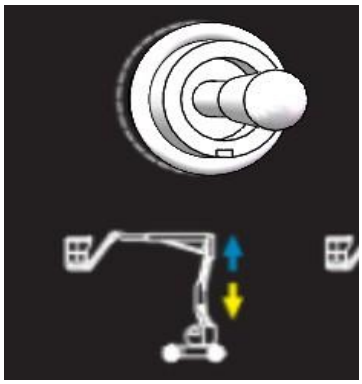
Lifting the upper folding boom

-Turn the ground/basket control selector switch to the ground control position. Move button 8 up and hold it, and push the direction selector button 11 up.

Lowering the upper folding boom

-Turn the ground/basket control selector switch to the ground control position. Move button 8 up and hold it, and push the direction selector button 11 down.

9. Lower folding boom lifting and lowering button



This button is used to lift and lower the lower folding boom.

Lifting the lower folding boom

-Turn the ground/basket control selector switch to the ground control position. Move button 9 up and hold it, and push the direction selector button 11 down.

Lowering the lower folding boom

-Turn the ground/basket control selector switch to the ground control position. Move button 9 up and hold it, and push the direction selector button 11 down.

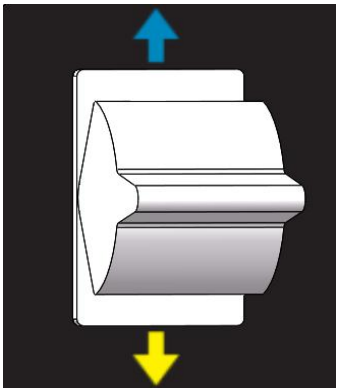
10. LCD

This is a multi-function display. It can be used to display or query the accumulated system working time, battery level, fault codes, real-time motor speed, etc.



11. Direction selector button

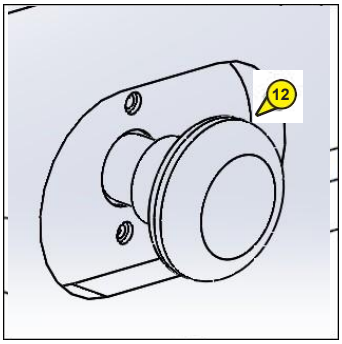
Select the moving direction according to the color of the arrow.



12. Power switch

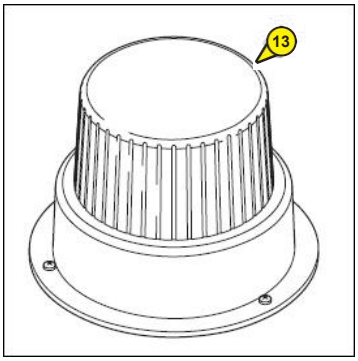
The power switch is on the side of the traction motor cover plate.Switch facing outward: Power On

Switch facing inward: Power Off



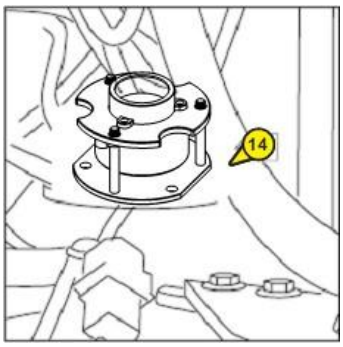
13. Flasher(optional)

The flasher flashes automatically when the aerial work platform travels or moves.



14. ***Angle sensor***

-This sensor is used to monitor the angle of the aerial work platform. When the angle of the slope where the aerial work platform is located is greater than the allowed angle , the warning device gives a warning with intermittent buzzes. The indicator light on the aerial work platform will go on.



15. ***Battery charging indicator light***

The indicator light changes its color depending on the battery level:

Red:

-The battery must be charged.

Yellow:

-The battery is charged 80%.

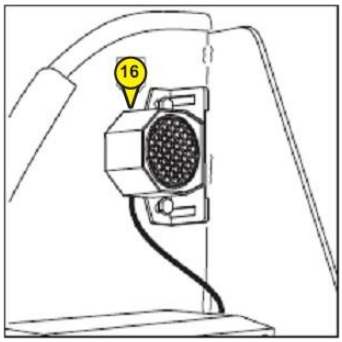
Green:

-The battery is fully charged.



16. ***Buzzer***

-The buzzer gives a warning when button 32 is pressed.

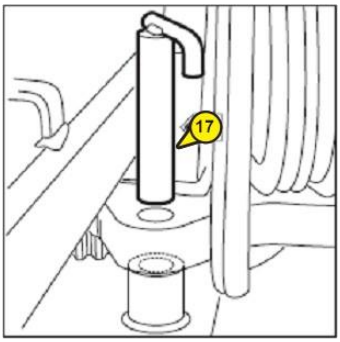


17. ***Lift body rotation stop dowel***

-Insert the stop dowel into the hole for locking.

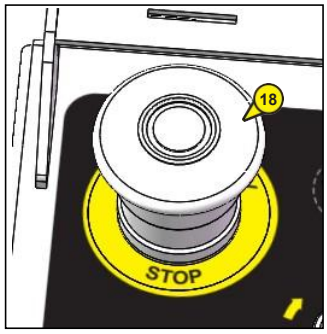
-This stop dowel is used to lock the body rotation of the aerial work platform in place.

-This function must be enabled when the aerial work platform is moved by means of transportation such as trucks or trains.



Remember to take out the lift body rotation stop dowel before entering the basket for operation.

Instructions for Platform (Basket) Control Functions

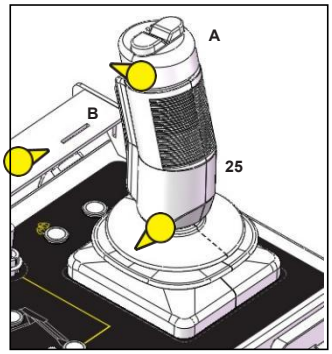


18. ***Emergency stop switch***

This switch is used to stop all movements of the lift in the event of a sudden breakdown.

-Press the button to stop all movements.
-Rotate the button a quarter of a turn to the right to restart. (The button will automatically return to its original position.)

This command always has priority over all other control circuits.



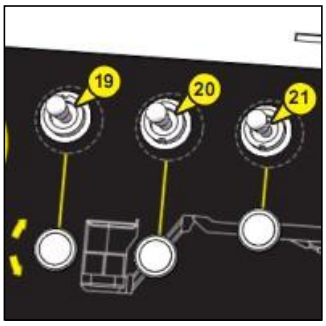
19 -20 -21 -22 -23 -24 -25 -movement selector switches and control buttons

Safety key

Press and hold key B on the control lever 25 continuously when operating the lift to perform movements.

Basket tilt

-Select button 19 corresponding to the movement, within 8 seconds after the indicator light goes on.
-Push forward or pull backward on the control lever 25 for lifting or lowering.

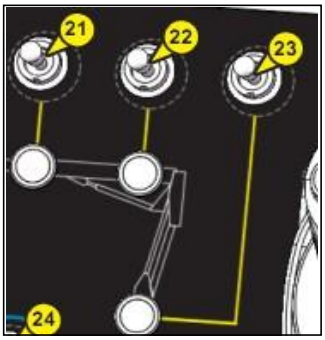


Swing boom lifting/lowering

-Select button 20 corresponding to the movement, within 8 seconds after the indicator light goes on.
-Push forward or pull backward on the control lever 25 for lifting or lowering.

Telescopic boom extending/retracting

-Select button 21 corresponding to the movement, within 8 seconds after the indicator light goes on.
-Push forward or pull backward on the control lever 25 for extending or retracting.



Upper folding boom lifting/lowering

-Select button 22 corresponding to the movement, within 8 seconds after the indicator light goes on.
-Push forward or pull backward on the control lever 25 for lifting or lowering.

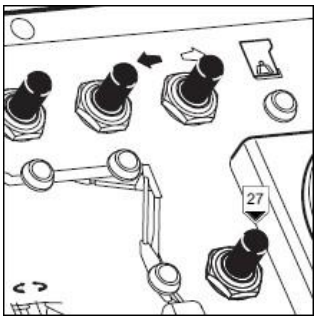
Traveling forward/backward

-Select button 23 corresponding to the movement, within 8 seconds after the indicator light goes on.
-Push forward or pull backward on the control lever 25 for traveling forward/backward.

Lower folding boom lifting/lowering

-Select button 24 corresponding to the movement, within 8 seconds after the indicator light goes on.

-Push forward or pull backward on the control lever 25 for lifting or lowering.

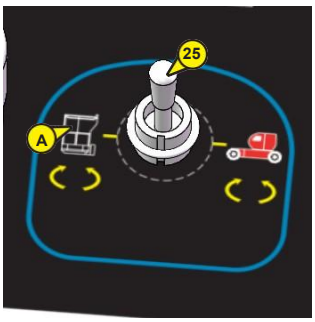


26. Turning part selector switch

Basket turning

- Move switch 26 to the left (position A).

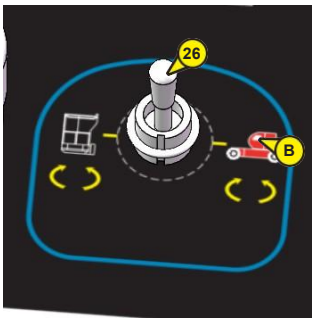
-Turn the basket to the left or right by using the control lever.

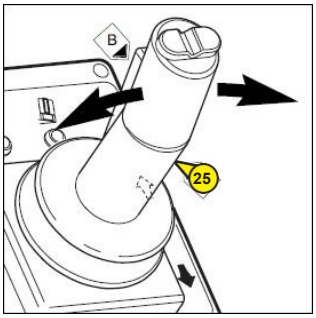


Lift body turning

-Move switch 26 to the right (Position B).

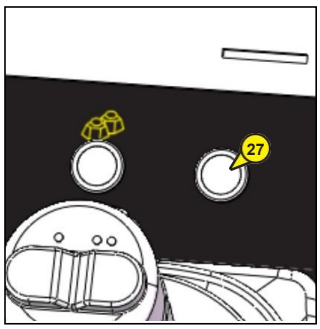
-Turn the lift body to the left or right by using the control lever.





27. Slope angle indicator light

-When the angle of the slope where the aerial work platform is located is greater than the maximum allowable angle,
the indicator light goes on and the lifting movements of all booms are locked.

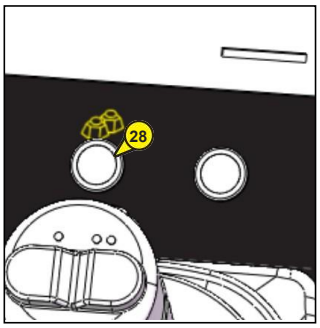


28. Overload and fault warning indicator light

-This light has the following two functions:

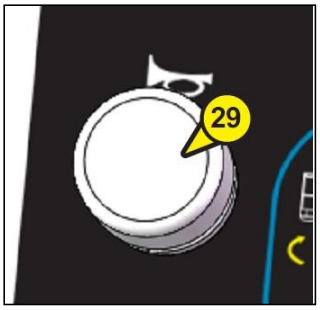
○1 The indicator light goes on in the event of overload.

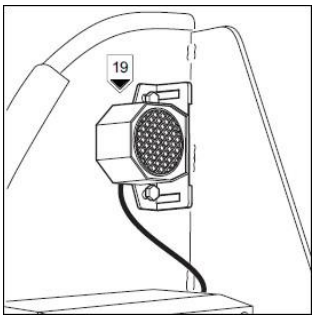
○2 When a fault occurs, the number of flashes of the indicator light indicates the corresponding controller error found.



29. Horn

-The warning device is installed at the lift body turning part. When you press the button 29,the horn sounds

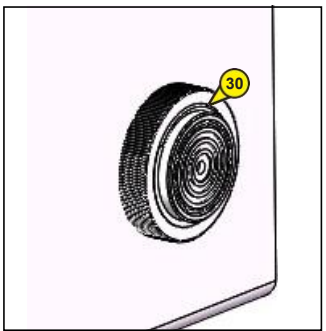




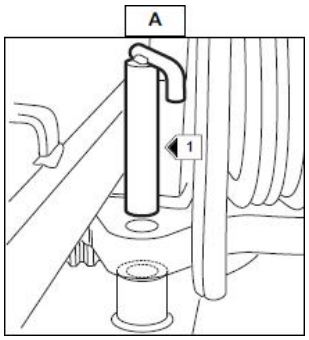
30. Warning buzzer

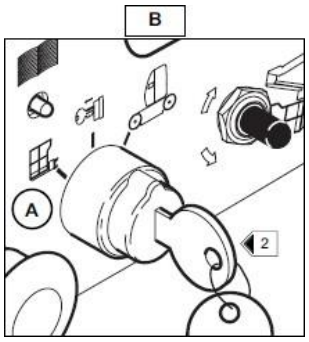
This buzzer functions in following two cases:

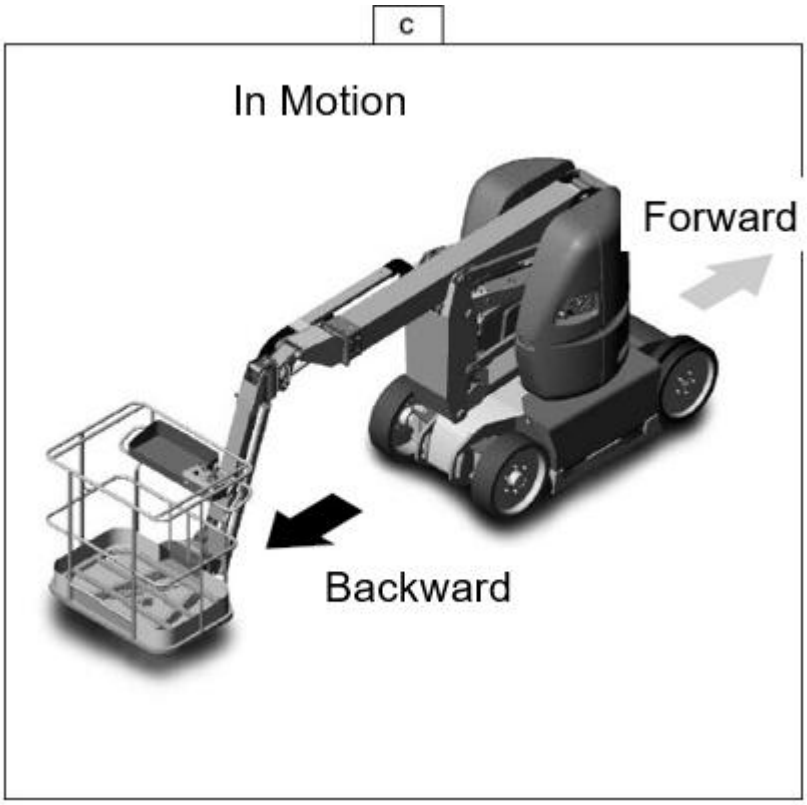
1) Intermittent buzzes: When the angle of the slope where the lift is located exceeds the maximum allowable angle, all movements are stopped. The only allowable action is to lower the folding booms and retract the telescopic boom, so that the lift can return to a surface with an allowable gradient.
2) Continuous buzzing: When the load of the lift exceeds the maximum allowable value, all movements are stopped. The only allowable action is to lower the folding booms and retract the telescopic boom.



AWP Operation





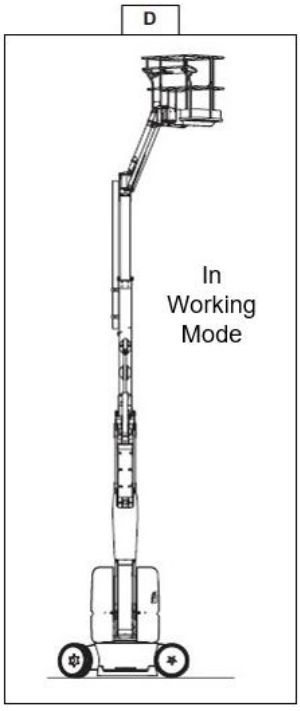


Lift Traveling in transport and working conditions

Before moving and using the lift, remove the lift body rotation stop dowel where necessary (Figure A).
The switch 2 (Figure B) should be set to position A (platform/basket control)

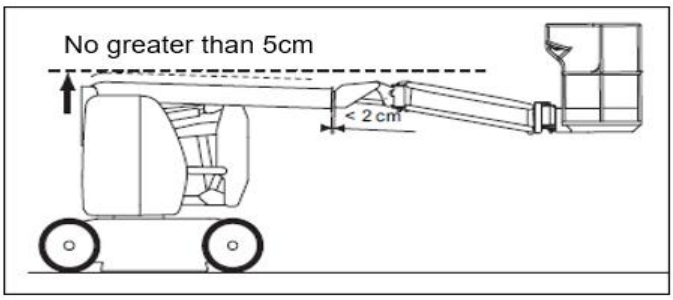
There are two traveling modes for the aerial work platform:
-Transport condition: In this condition, all folding booms of the aerial work platform are in the lowest position. The lift can travel at the maximum speed and climb. (Figure C)

-Working condition: In this condition, one or more folding booms of the aerial work platform are lifted or the telescopic boom is extended. The lift travels at the minimum speed.
The angle sensor and overload warning device are activated. (Figure D)



The critical point between transport condition and working condition

The folding booms are retracted as well as the telescopic boom.



In the transport condition, the folding booms can be lifted slightly by no more than 5cm.

The telescopic boom is extended by no more than 2cm.

Placement and lifting

The aerial work platform is designed for use on level ground. It is of great importance to clear enough space for the aerial work platform to work.

-Move the aerial work platform to the position where it will work.

-Enter the basket.

You must wear a safety belt when operating.

When operating manually, always pay attention to the surroundings, especially parts like electric wires that may become obstructions within the range of AWP movements.

Lowering

When the work is completed, retract the telescopic boom and lower the folding booms to return the lift to the transport condition.

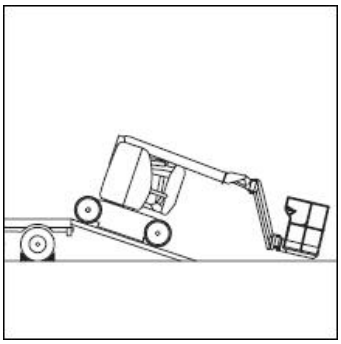
Check whether there are people underneath.

Shutdown

Turn off the main power switch when you are not using the lift.

You can charge the battery (where necessary) at the end of the day.

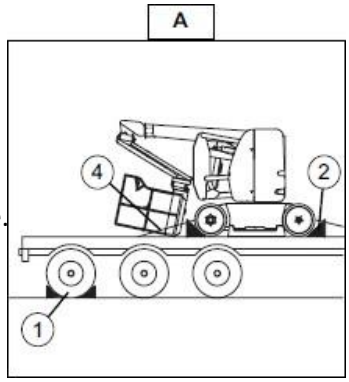
Loading and unloading the AWP



Check whether safety instructions regarding the flatbed truck are visible before loading the AWP. Ensure that the truck driver has been informed of the dimensions and weight of the AWP.

The AWP should be in the transport condition when it is loaded onto the flatbed truck:
-The upper boom is in the horizontal position.
-The lower boom and the middle boom are in the lowest position.
-The telescopic boom is retracted and the turntable is fixed in place.
-The swing boom may need to be lifted.

Make sure that the flatbed truck has enough space and load capacity to transport the AWP. Also, check the allowable contact pressure between the AWP and the flatbed truck platform.



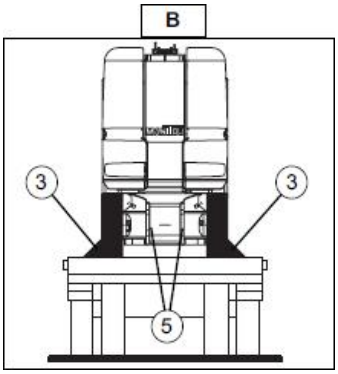
Loading the AWP

-Fix the wheels of the flatbed truck with wedges. Item 1 (Figure A)
-Fix the loading ramp of the flatbed truck to load the AWP with the smallest possible angle.

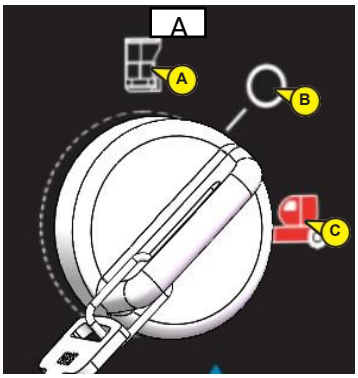
Note: This machine is in its most compact state (the AWP is fully folded up) (Figure A).

Fixing the AWP

-Use wedges to fix each wheel(wedged at both ends) of the AWP on the flatbed truck. Item 2 (Figure A)
-Also wedge each wheel at both the inside and outside according to the position. Item 3 (Figure B)
-Anchor the AWP to the flatbed truck using a rope of suitable strength. Tie the rope tightly at the front and rear and thread it through the lifting ring of the AWP. Item 4 (Figure A) Item 5 (Figure B)



Emergency measures

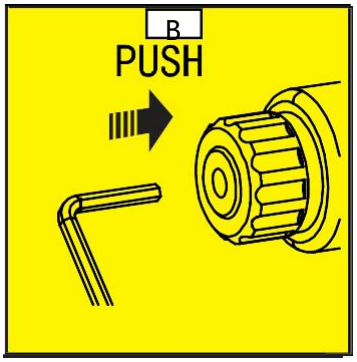


The operator in the basket getting ill or losing control ability

In the event that the operator becomes ill or loses control ability, the person on the ground can gain control of the lift through the ground control panel. Follow the instructions below:

-Call the medical emergency station. Then, turn the key switch 1 on the control panel to position C (Figure A) to gain control of the lift.

-Operate the AWP to lower it.



An accident or a fault occurring to the lift

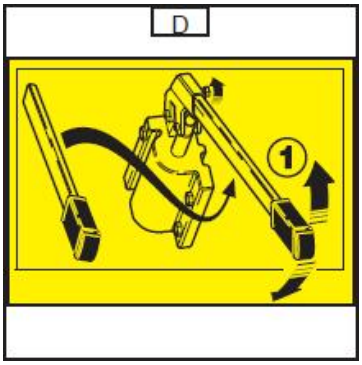
-Open the right cover.

-Evacuate the operators under the basket.

-When you are unable to operate by using the control box due to a fault occurring on the lift, all movements can be made by manual release.

-Open the right cover.

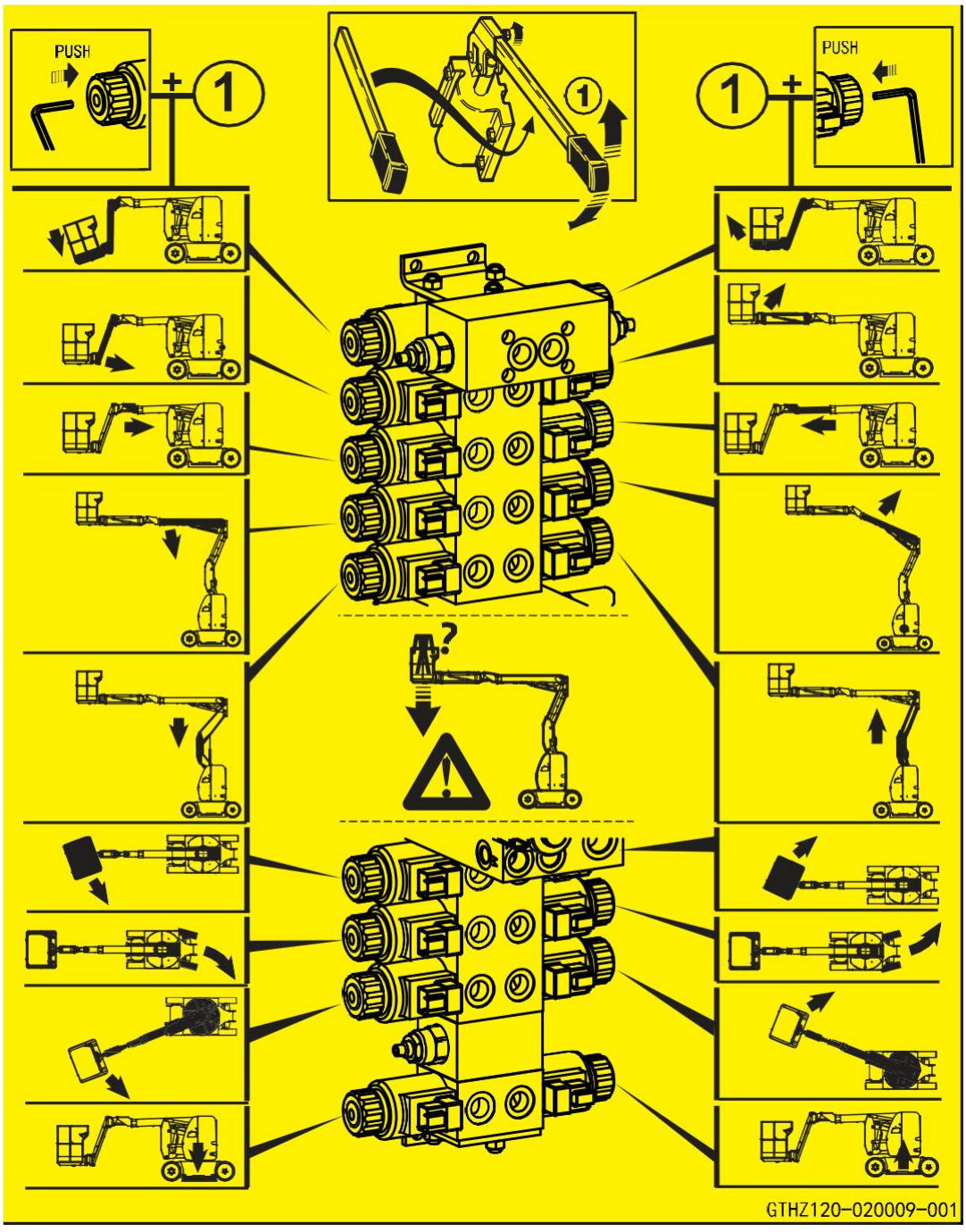
-When you need the lift to move, loosen the electromagnetic valve associated with the movement on the main hydraulic valve (Figure B) and simultaneously operate the hand pump up and down (Figure D).



Notice: For emergency lowering, retract the telescopic boom first and then lower the upper boom.

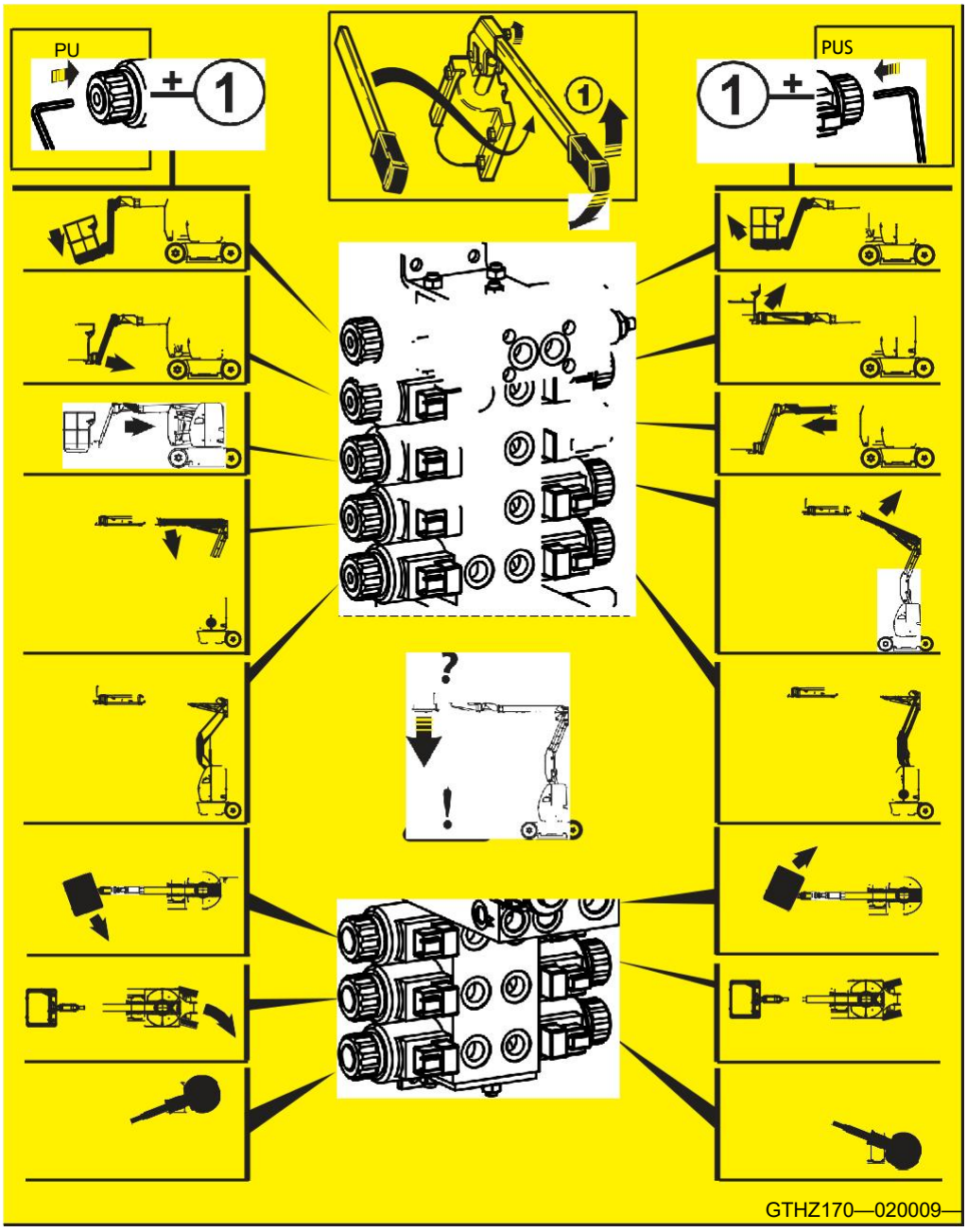
GTHZ120

The corresponding functions of the electromagnetic valves are as follows:



GTHZ170/170C

The corresponding functions of the electromagnetic valves are as follows:



Rescue Procedure

This section provides a description of the procedure to be followed and the controllers to be used when you encounter a problem (a fault occurring on the AWP or an operator trapped in the basket) during operation of the AWP. This procedure should be read and fully understood by the operator (and anyone carrying out the work around the machine) during the management of the machine and at regular intervals thereafter.

The user being physically ill

If the user is ill or unable to operate the machine, the person on the ground can take control of the aerial work platform via the ground console. Observe the following instructions:

-Turn the key on the ground console to position C in Figure A to take control of the aerial work platform.

-Lower the aerial work platform.

Beware of any structures or obstacles below the aerial work platform.

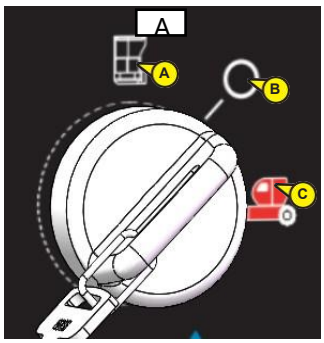
Encountering an accident or a fault

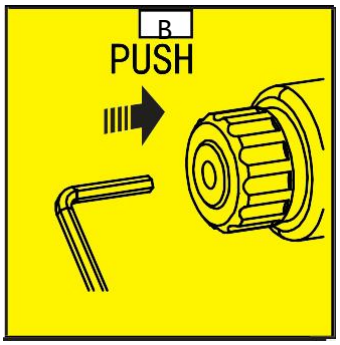
Evacuate all personnel from the basket.

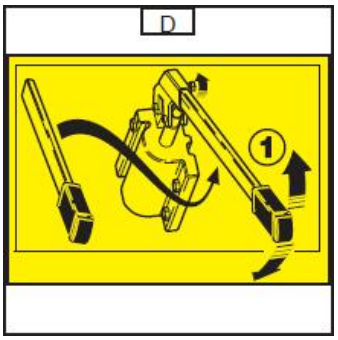
A manual system is reserved for operating the machine in the event of an accident or a fault that prevents manual operation of the console.

-Open the hood at the right side of the turntable.

-To make move the AWP, operate the electromagnetic valve corresponding to that movement as follows.







Traveling release A

The AWP can only be towed for short distances. Also,for stability reasons, it can only be towed by a machine with significant braking power: The two machines are connected with a towing bar.

-To put the AWP into a freewheel state, it must not be subject to movement caused by a sloped surface. The wheels must be able to turn freely.
-If possible, raise the AWP to lift the driving wheels off the ground for easy operation.
-Loose bolt 1 on every wheel for 22mm from its edge, over the resistance point, making it not under stress (20 Nm), see figure G
-The AWP can be towed by a trailer.

Traveling release B

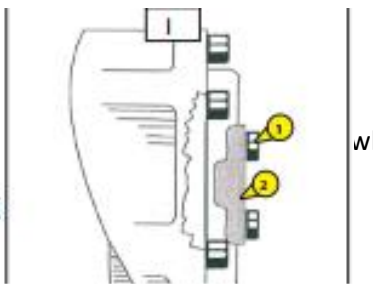
Do not loosen the bolt by more than 22mm or it may be damaged.

-Reassembly
-Turn the wheel gently from the left to the right while re-tightening the bolt (1) to reset the gear (Figure F). Pay attention to the torque (150Nm) while tightening it.

The AWP can only be towed for short distances. Also,for stability, it can only be towed by a machine with significant braking power: The two machines are connected with a towing bar.

-To put the AWP into a freewheel state, it must not be subject to movement ca wheels must be able to turn freely.
-If possible, raise the AWP to lift the driving wheels off the ground for easy oper

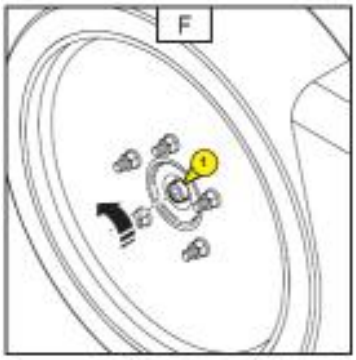
Disengaged condition

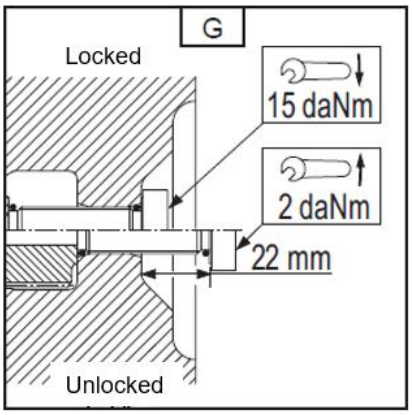


Engaged condition

-Unscrew bolt 1 in Figure H. Install the separation cover 2 in a reverse manner. ıub of the reduction gear will be disengaged (Figure I).
-The AWP can be towed by a trailer.
-After towing, restore the separation cover to engage the drive hub again (see Figure H).

GTHZ120





GTHZ170/170C

