Operation Manual

ANSI A92.20-21 & CSA B354.6-17

SR2669D/SR3369D
SR4069D/SR3390D
SR4390D/SR5390D

Mobile Elevating
Work Platforms

PART No. OM- 2537050013

Original Instructions

Original Instructions

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG，All models are designed and manufactured according to ANSI A92.20-21 & CSA B354.6-17, All dealers, owners, users, operators, lessors, lessees, and brokers to comply with appropriate section(s) of applicable ANSI A92.20-21 & CSA B354.6-17 standards.

This manual is a guide for safe and proper operation and maintenance of the machine, which introduces technical parameters and mechanism and operation herein.

We sincerely hope that you will read through this manual before attempting to operate the machine for the first time and before repairing and maintaining the machine, and that you will master the operation and maintenance described therein.

The information contained in this manual is correct at the time of publication. However, LGMG has endeavored to deliver the highest degree of accuracy possible. And continuous improvement of our product is a LGMG policy. Therefore, product specifications are subject to change without notice.

Due to the impossibility of foreseeing all possible hazards, therefore, it is not possible to include all safety precautions in this manual and the machine's safety precautions in this manual and the machine's safety instructions. If some operations that are not recommended in this manual, you must ensure that you and others are safe and will not damage the machine. If the security of certain operations cannot be determined, please call LGMG industries or dealer service center.

The precautions for operation and maintenance contained in this manual are only applicable when the machine is used for the specified use. If the machine is used within the scope not listed in this manual, our company will not accept any safety responsibility, which is borne by the user and operator in such operations.

Any prohibited operations in this manual shall not be performed.

This manual should always be placed in the designated location for read. This manual is part of the machine, when the ownership or use right of the machine is transferred, please hand over this manual together. If the manual is lost, damaged or illegible, please replace it promptly.

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Safety Precautions

The operator of this machine shall understand and follow the existing safety regulations of state and local governments. If these are unavailable, the safety instructions in this manual shall be followed.

To help prevent accidents, read and understand all warnings and precautions in this manual before operation or performing maintenance.

The safety measures are specified in Chapter 1 Safety.

It is impossible to foresee every possible hazard and the safety instructions in this manual may not cover all safety prevention measures. Always ensure the safety of all personnel and protect the machine against any damage. If unable to confirm the safety of some operations, contact LGMG.

The operation & maintenance prevention measures listed in this manual are only applicable to the specified uses of this machine. LGMG assumes no responsibility if this machine is used beyond the range of this manual. The user and the operator shall be responsible for the safety of such operations.

Do not perform any operation forbidden in this manual in any situation.

The following signal words are applicable for identifying the level of safety information in this manual.

⚠ DANGER:

An imminent situation, that if not avoided, will result in severe injuries or death. This is also applicable to situations that will cause serious machine damage, if not avoided.

⚠ WARNING:

A potentially dangerous situation, that if not avoided, may result in severe injuries or death. This is also applicable to situations that may cause serious machine damage, if not avoided.

⚠ NOTICE:

A situation, that if not avoided, may result in minor or intermediate injury. This is also applicable to situations that may cause machine damage or shorten machine service life.

Chapter 1 Safety

1.1Danger

Failure to disobey the instructions and safety rules in this manual may cause death or serious injuries.

1.2 No Operation Except Following Cases

You have understood and practiced the rules for safe operation of the vehicle in this manual.

1) Avoid dangerous situations. Know and understand the safety rules before proceeding with the next step.
2) Always perform a pre-operation inspection.
3) Always perform a pre-use functional test.
4) Check the workplace.
5) Use the vehicle only for its intended purpose.
6) Read, understand, and follow the manufacturer's instructions and safety rules - safe operation manuals and vehicle labels.
7) Read, understand and follow user safety rules and work site regulations.
8) Read, understand and follow all applicable government laws and regulations.
9) You have received the training on safe operation of the vehicle.

1.3 Classification of Hazards

NOTICE

Classification of hazards

The meanings of symbols, color codes and characters on the decals of LGMG's products are as follows:

Security warning symbol: Are used for warning of potential personal injuries.

Observe all safety instructions below these signs, to avoid situations causing potential personal injury and death.



Red: Signifies dangerous situations. If not avoided, will result in personal death or severe injury.



Orange: Signifies dangerous situations. If not avoided, may result in personal death or severe injury.



Yellow: Signifies dangerous situations. If not avoided, may result in minor or intermediate personal injury.



Blue: Signifies dangerous situations. If not avoided, property loss or damage can occur.

1.4 Intended Purpose

The use of the machine is only limited to lift staff, tools and materials to the high work place.

CAUTION: It is forbidden to carry loads.

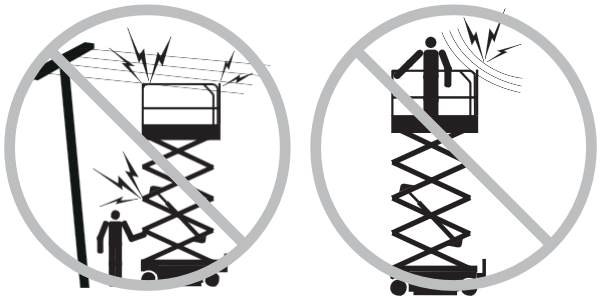
1.5 Safety Sign Maintenance

1) The operators should always keep in mind their safety when replacing any missing or damaged safety signs.
2) The safety decal should be cleaned with mild soap and water.
3) Do not use solvent-based cleaners as they

may damage the material of the safety label.

1.6 Risk of Electric Shock

1) This machine is not insulated and is not provided with electrical shock protection when it comes into contact with or near electrical wire.



2) This machine should be kept an adequate safety distance from power line and electrical equipment according to applicable government laws and regulations and the following table.

Voltage	Required safety distance
0 V - 50 kV	3.05m/10ft
50 kV - 200 kV	4.60m/15ft
200 kV - 350 kV	6.10m/20ft
350 kV - 500 kV	7.62m/25ft
500 kV - 750 kV	10.67m/35ft
750 kV - 1,000 kV	13.72m/45ft

3) The effects of strong winds or gusts on the movement of the platform, the swinging and slackening of the wires should be considered.

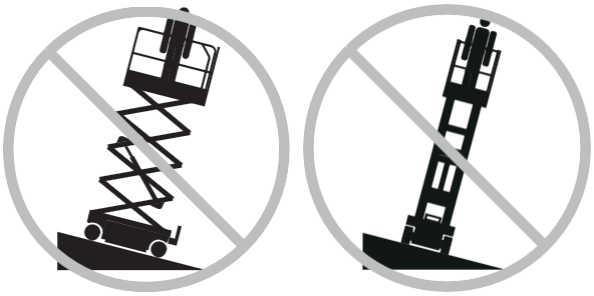
4) If the machine comes into contact with live wires, keep away from the vehicle. No one is allowed to touch or operate the vehicle on the ground or platform before cutting off the power supply.

5) Do not operate the machine when there is lightning or storms.

6) Do not use the machine as a ground wire during welding.

1.7 Safety of Work Area

1) The platform can only be raised on a solid and flat level ground.



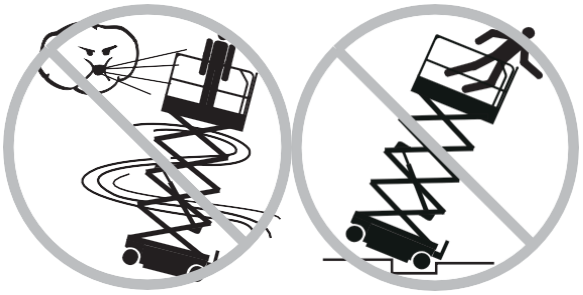
2) The speed shall not exceed 1.1 km/h /0.628mph (SR90D)/ 0.5Km/h/0.28mph (SR69D) when the platform is raised.

3) The tilt alarm cannot be regarded as level indicator. When the machine is seriously inclined, the tilt alarm of the chassis and platform will ring.

4) If tilt alarm sounds, lower the platform and move the machine to solid level ground. If the tilt alarm rings when the platform is raised, the platform shall be lowered very carefully.

5) Do not operate the machine in strong winds or gusts. The surface area of the platform or load cannot be increased. Increasing the area exposed to the wind will reduce the stability of the machine.

6) If the machine is used outdoors, do not elevate the platform when wind speed is above 12.5 m/s/28mph. If wind speed exceeds the limit after elevating the platform, immediately lower the platform and stop all machine operation.



7) In the elevated state of the platform, the machine cannot run on uneven terrain, an unstable surface, or in other dangerous situations, or near these areas.

8) In the stowed state, the machine must run very carefully and reduce its speed when it runs on uneven terrain, unstable or smooth surface with stones, or near holes, or a steep slope.

9) Do not drive in high-speed descending any slope.

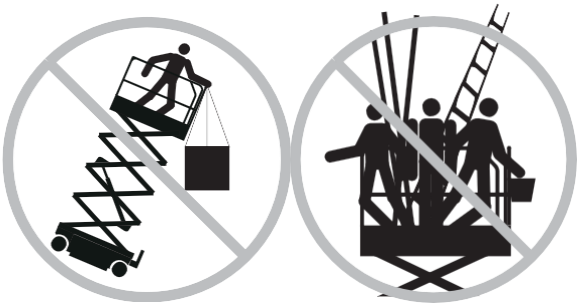
10) Do not use the platform control station to release the platform when the platform is tilted, stuck, or its normal operation is obstructed by other nearby obstacles. Before using the ground control station to release the platform, all personnel must exit the platform.

11) Do not use the platform to push or pull anything outside the platform.



12) Do not use the machine as a crane.

13) Do not place, fasten and fix or suspend loads on any component of the machine.



14) Do not place ladders or scaffolds within the platform or against any component of the machine.

15) Do not attach platforms to adjacent buildings.

16) Do not change or disable limit switch.

17) Do not tie platforms to adjacent components.

18) Do not place loads outside the platform guardrail.

19) Do not change or damage any component that may affect the safety and stability of the machine.

20) Do not replace key parts that affect machine stability with parts of different weights or specifications.

21) Do not change or modify the aerial work platform or install additional equipment for placing tools or other materials on platforms, pedals or guardrails, which will increase platform weight and surface area or load.

22) Do not push machines or other objects with the platform.

23) Tools and materials, evenly distributed and able to be safely moved by the operator in the platform, can be carried in the platform only.

24) Do not use the machine on a movable surface or vehicle.

25) Keep all tires in good condition and appropriately tighten the lug nuts.

26) Ambient temperature for machine operation is -20℃-40℃.

27) The allowable fluctuation of machine power supply voltage is ±10%.

1.8 Crushing Hazards

1) Do not place arms, hands, or fingers in any position where there is a hazard of potential crushing by the machine's scissors.

2) Do not place your hands in a position where you may get pinched when folding the guardrail.

3) Grasp the platform guardrail all the time when removing the pins fixed on the guardrail. Do not let the platform guard rail fall off.

4) When the machine is being driven from the ground using the controller, use good judgment and carefully plan the travel path. Keep a safe distance between the operator, machine and any fixed objects, walls, or buildings.

1.9 Hazards When Operating on a Slope

Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. The rated value of slope is applicable to a stowed machine.

SR2669D(With outrigger)/SR3369D/SR4069D:

 Maximum rated value of slope in folding position.	35% (19.3 ˚)
 Maximum rated value of side slope in folding state.	35% (19.3 ˚)

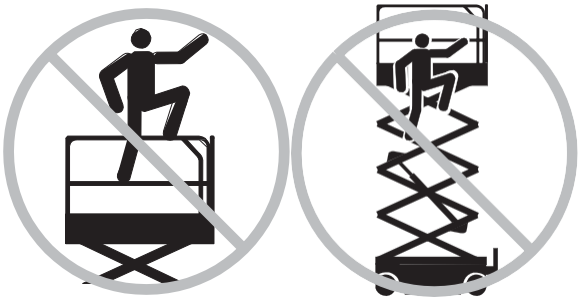
SR2669D(Without outrigger)/SR3390D/ SR4390D/SR5390D:

 Maximum rated value of slope in folding position.	40% (22 ˚)
 Maximum rated value of side slope in folding state.	40% (22 ˚)

⚠ NOTICE: Rated value of slope is limited by the ground conditions and traction.

1.10 Falling Hazards

1) All workers in the platform must use approved safety harnesses and attach the lanyard to the provided anchor points in the platform. Each anchor point is limited to one lanyard.



2) Do not climb on or sit on the guard rail of the platform. Firmly stand on the platform floor at all times.
3) Do not climb down the platform scissors when the machine is elevated.
4) Keep the platform floor free from debris.
5) Shut the platform door before operation.
6) Do not operate the machine if the guard rail is not correctly installed.
7) Do not enter or exit the platform unless the machine is in the stowed position.

1.11 Crash Hazards

1) Pay attention to any items or obstacles within the machine's sight line and in any blind spots when starting or running the machine.
2) Pay attention to the position of the extending platform when moving the machine.
3) Check the workstation to avoid any overhead barriers or other possible hazards in the work site.
4) Pay attention to any crushing hazards when holding the guard rail of the platform.
5) The operator must follow the manufacturer's service rules for personal protection equipment, the service rules for the workstation, and the laws and regulations made by the local government.
6) Observe and follow the traveling arrow and the turning direction arrows on the platform controller and the platform's label and nameplate.
7) Do not operate the machine on the line of any crane or movable overhead machine, unless the crane controller is locked and/or the potential bump prevention measure is taken.
8) Dangerous driving or careless operation when running the machine is strictly prohibited.
9) The platform can be lowered only when there are no personnel or barriers below the platform.



10) Limit travel speed according to ground conditions, traffic, road grade, personnel position, or any other possible bump factors.

11) It is recommended the operator wear a qualified safety helmet when operating the machine.

1.12 Hazard of Component Damage

1) Do not use any battery or charger greater than 12 V to start up the engine.

2) Do not use the machine as a ground for welding.

3) Do not use the machine in a place where there may be a magnetic field.

1.13 Hazard of Explosion and Fire

1) Do not use the machine in a hazardous place where there may be inflammable or explosive gas or particles.

2) Do not start the engine if liquefied petroleum gas (LPG), gasoline, diesel or other explosive substances are smelled or perceived.

3) Do not refuel the machine when the engine is running.

4) Refuel the machine or charge the battery only in open and well-ventilated places far away from sparks, open flames, burning cigarettes, etc.

1.14 Machine Damage Hazards

1) Do not use a damaged or malfunctioning machine.

2) Make a complete operational and function check before each shift. Attach a tag on a damaged or malfunctioning machine immediately and stop all operation.

3) Be sure to perform all maintenance and operation according to the instructions in this manual.

4) Be sure to keep all labels and decals at the appropriate locations. Replace any that are not legible.

5) Be sure to keep this manual in the manual box of the platform.

1.15 Personal Injury Hazards

1) Do not operate the machine if it is leaking hydraulic oil. Leaking hydraulic oil under pressure can pierce or burn skin.

2) Always operate the machine in a well-ventilated place to avoid poisoning of carbon monoxide.

3) Severe injury may result if any component below the cover is touched by mistake. Only trained technicians can perform maintenance to the components under the cover. The operator shall only perform maintenance before the pre-operation inspection. Be sure to keep all compartments closed and locked during operation of the machine.

4) It is prohibited to touch the heated heaters.

5) It is forbidden to carry out maintenance work when the equipment is electrically charged or the hydraulic system is under pressure.

1.16 Battery Safety

Combustion Hazards

1) The battery contains acid. Wear protective clothing and safety goggles when performing maintenance on the battery.

2) Take measures to prevent acid from overflowing out of the battery or being touched. Neutralize the overflowed acid material from the battery with soda and water.

Explosion Hazard

1) Keep the battery away from any sparks or open flames. The battery can release an

explosive gas.

2) Do not touch the battery terminal or the cables with any tool that may cause a spark.

Electric Shock/Burn Hazard

Avoid contacting electrical terminals.

1.17 Tilting Hazard

1) The outrigger can only be lowered on the firm, stable ground. Be careful to avoid steep slopes, holes, unstable or smooth slopes and other potential hazards.

2) Be sure to lower the outrigger at the steering end first, when the automatic leveling function is not used and a single outrigger is lowered.

3) Raise the platform only when the machine is level. Do not set the machine to be elevated when it is impossible to make the machine level by outrigger only.

4) Raise the platform only when all four outriggers are fully lowered and in contact with the ground and the machine is level.

5) Do not adjust outriggers when the platform is elevated. Do not drive the vehicle when outriggers are lowered.

1.18 Ground Information

⚠ WARNING: Rollover and personal injury will be caused under severe working conditions and complex and unsafe ground conditions, and stable ground conditions and good working conditions can ensure the normal operation of the machine; therefore before operation, verify that the ground in the working area is safe and strong enough to support the machine.

⚠ DANGER: Rollover and personal injury may occur under the following conditions:

- **On steep slopes or in caves;**
- **When there are protrusions, obstacles or debris on the ground;**
- **On the inclined surface;**
- **On the unstable or smooth surface;**
- **Near the mining area where the soil foundation is soft soil;**
- **On saturated soil or frozen soil;**
- **On suspended floor;**
- **On kerbs and road edges;**
- **On surface support that is not strong enough to withstand the full load of the machine;**
- **Under other possible unsafe situations.**

The ground load bearing information of the machine is shown in the table below:

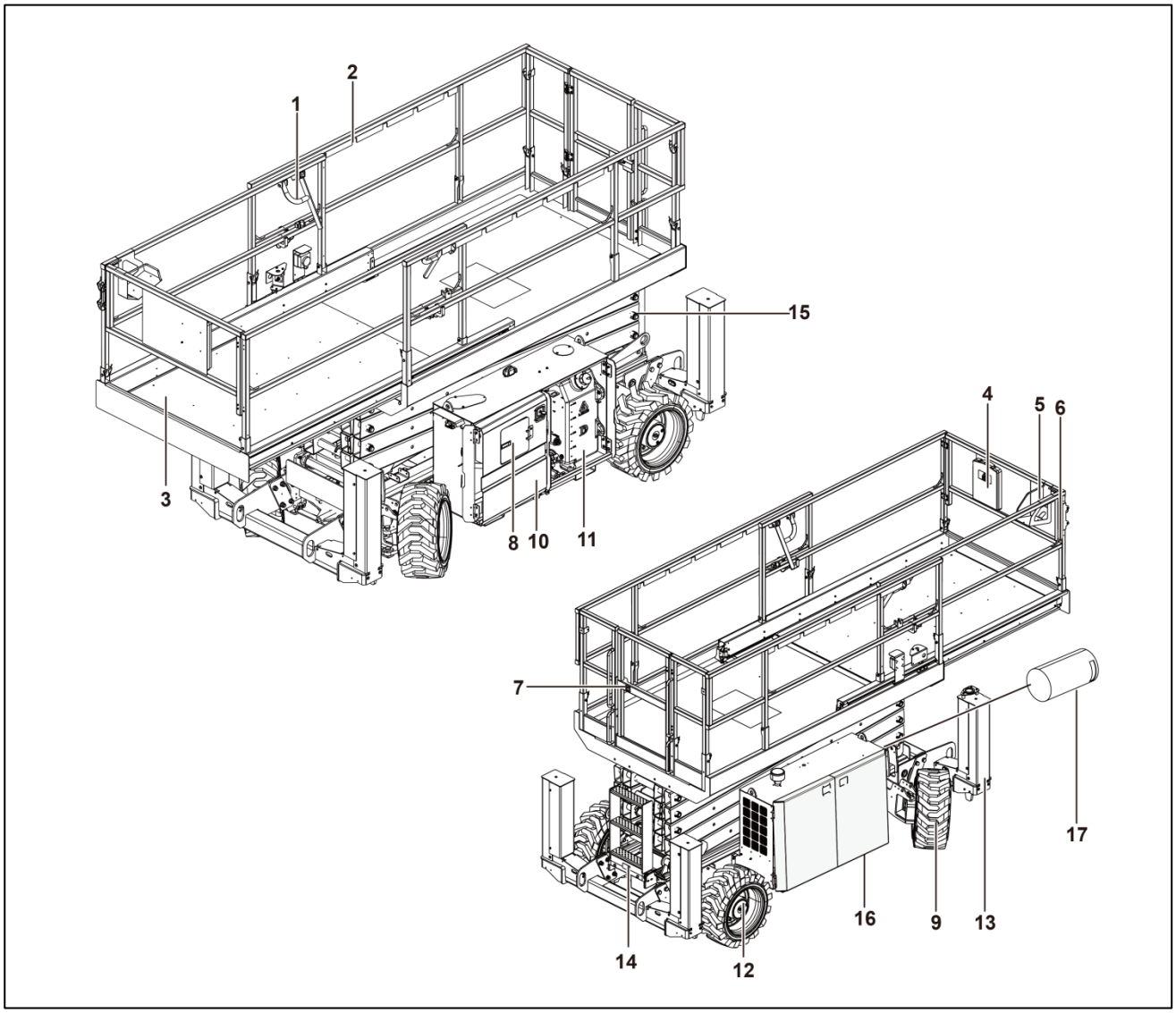
Model	Tire contact pressure (KPa/psi)	Ground pressure of tire (KPa/psi)	Ground pressure of outrigger (KPa/psi)
SR2669D (With outrigger)	540.11/78.34	8.83/1.28	7.23/1.05
SR3369D	524.48/76.07	8.71/1.26	7.13/1.03
SR4069D	575.46/83.46	9.91/1.44	8.12/1.18
SR3390D	887.25/128.68	9.21/1.34	7.59/1.1
SR4390D	887.59/128.73	9.55/1.39	7.87/1.14
SR5390D	888.18/128.82	10.14/1.47	8.35/1.24

⚠ CAUTION: The ground load bearing information given herein is for reference only, and does not consider the optional devices of the machine. Before using the machine, always verify that the ground of the working area is safe and strong enough to support the machine.

Tire specification:

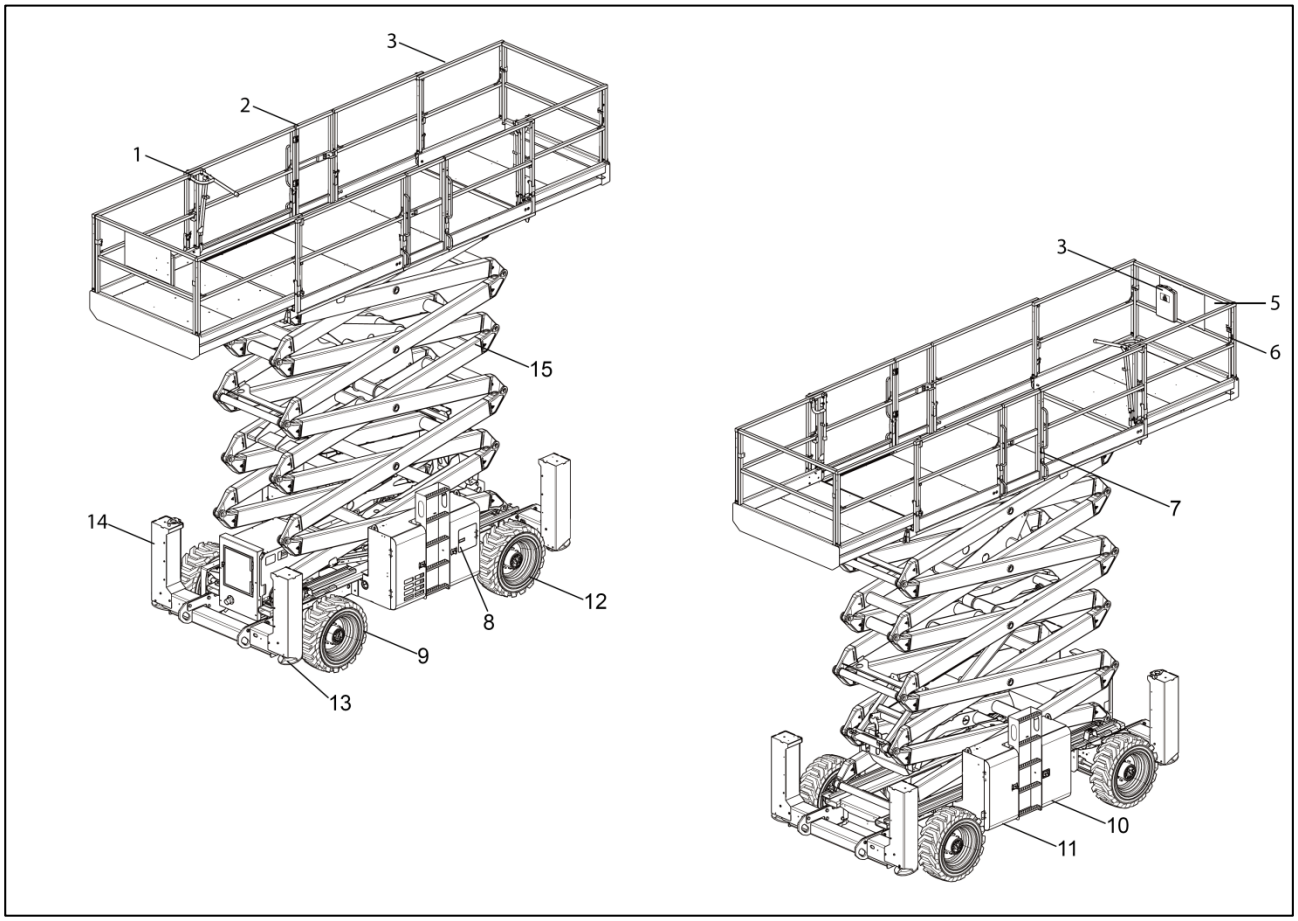
Model	Drive wheel load-6km/h （Kg/lbs）	Maximum static load （Kg/lbs）
SR2669D	2060/4542	3000/6614
SR3369D	2060/4542	3000/6614
SR4069D	2060/4542	3000/6614
SR3390D	4135/9116	4650/10251
SR4390D	4135/9116	4650/10251
SR5390D	4135/9116	4650/10251

Chapter 2 Machine Nomenclature



No.	Name	No.	Name
1	Platform Extension Locking Handle	9	Steering Wheel
2	Platform Guard Rails	10	Hydraulic Oil Tank
3	Extension Platform	11	Fuel Tank
4	Document Box	12	Non-Steering Wheel
5	Platform Control Station	13	Outrigger(If Equipped)
6	Lanyard Anchorage Points	14	Ladder
7	Platform Entrance Door	15	Scissor Stack Arm
8	Ground Control Station	16	Engine Side
		17	LPG Tank(If Equipped)

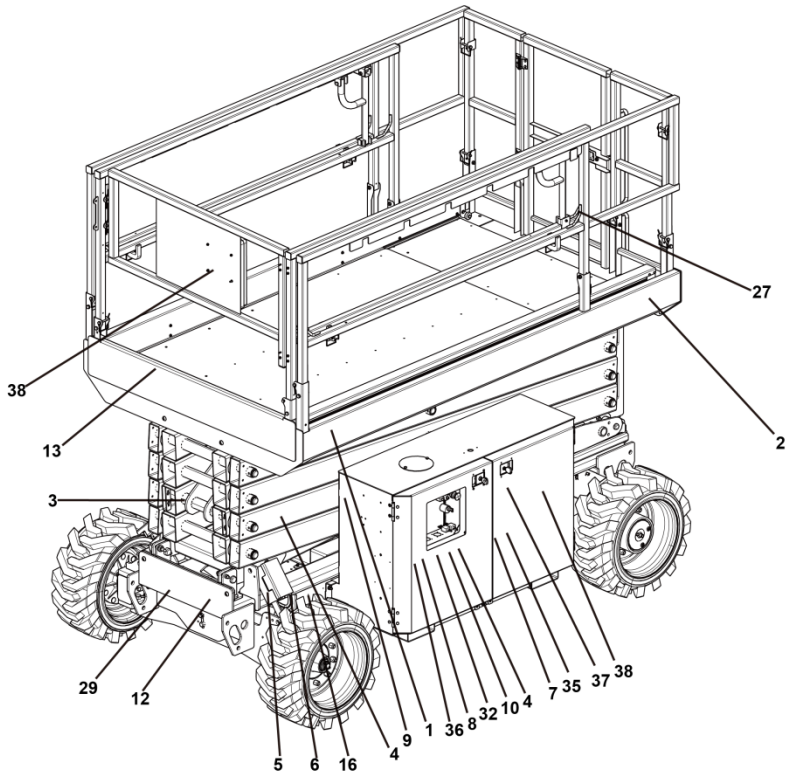
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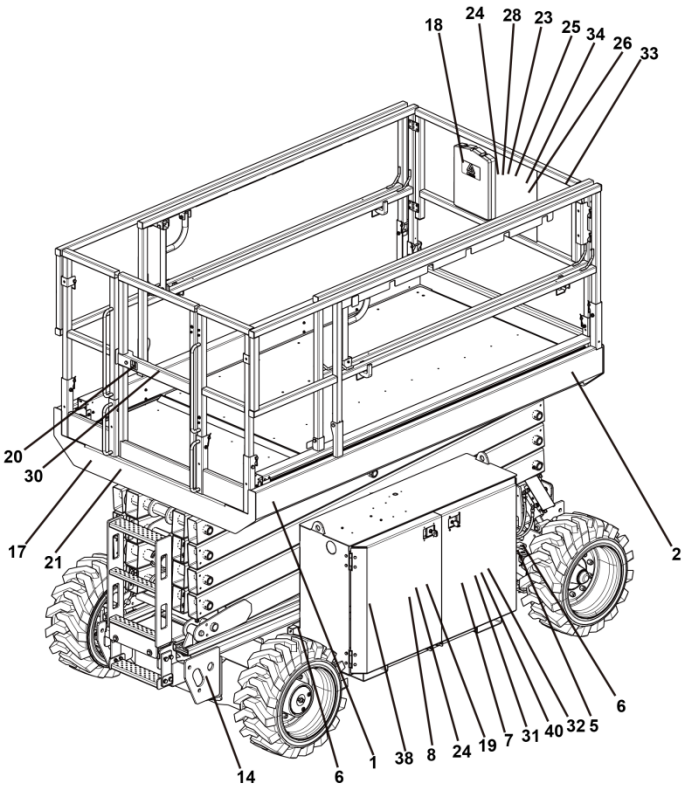


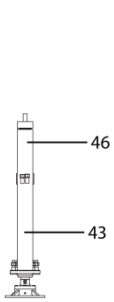
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2	Platform Guard Rails	10	Hydraulic Oil Tank
3	Extension Platform	11	Fuel Tank
4	Document Box	12	Non-Steering Wheel
5	Platform Control Station	13	Outrigger Foot Pad(If Equipped)
6	Lanyard Anchorage Points	14	Outrigger Bracket(If Equipped)
7	Platform Entrance Door	15	Scissor Stack Arm
8	Ground Control Station		

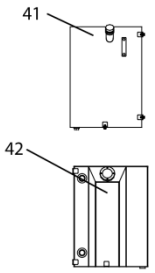
Chapter 3 Decals and Warning Labels

SR2669D/SR3369D/SR4069D Decals Diagram





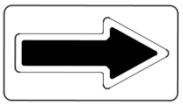
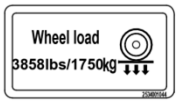
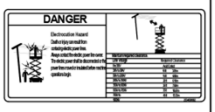
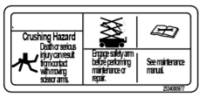
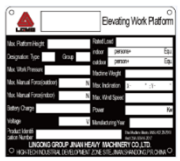
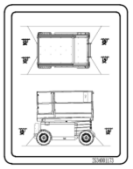
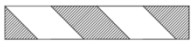
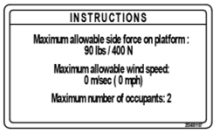
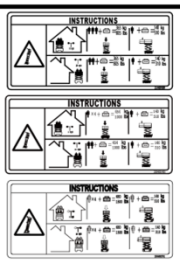
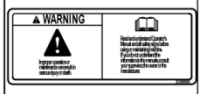
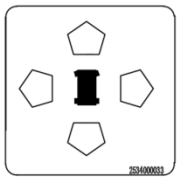
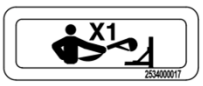
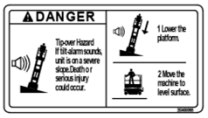
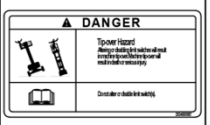
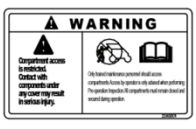




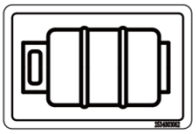
SR2669D/SR3369D/SR4069D Decals

Code	Name	Code	Name
1	Company Logo	24	Safety Rules Description Sign
2	Model Identification	25	Arrow Indication Sign
3	Forklift Safety Arm Sign	26	Notices Sign
4	Stay Away From Machine Sign	27	Lanyard Anchorage Point
5	Direction Indicator Sign	28	Reduce Platform Warning Sign
6	Wheel Load Capacity Sign	29	Tilting Hazard Sign
7	Electric Shock Hazard	30	Operation Sign
8	Pressure Hazard Identification	31	Prohibition Of Sparks Sign
9	Decal-Instruction of Battery Switch	32	Attention In Overhaul
10	Emergency Lowing Mark	33	Suspension Position Sign
11	Whole Machine Nameplate	34	Description Of File Loss
12	Identification Of Transport Securing Parts	35	Danger Description
13	Warning Line	36	Attention Mark Of Skin Infraction
14	Hanger Sign	37	96dB
15	Oil Position Sign	38	Company Logo
16	Maximum Manual Force Sign	39	Notice Sign
17	Platform Safety Warning Sign	40	Identification Of Fuel Tank
18	Instructions Sign	41	Identification Of Hydraulic Oil Tank
19	Explosion Burn Warning Sign	42	Identification Of Fuel Tank
20	No-Insulated Sign	43	Stay Away from The Outriggers
21	Maximum Manual Power	44	Decal-Unleaded Gasoline
22	Side Door Identification	45	Decal-LPG
23	Annual Inspection Instruction	46	Decal-Ground check

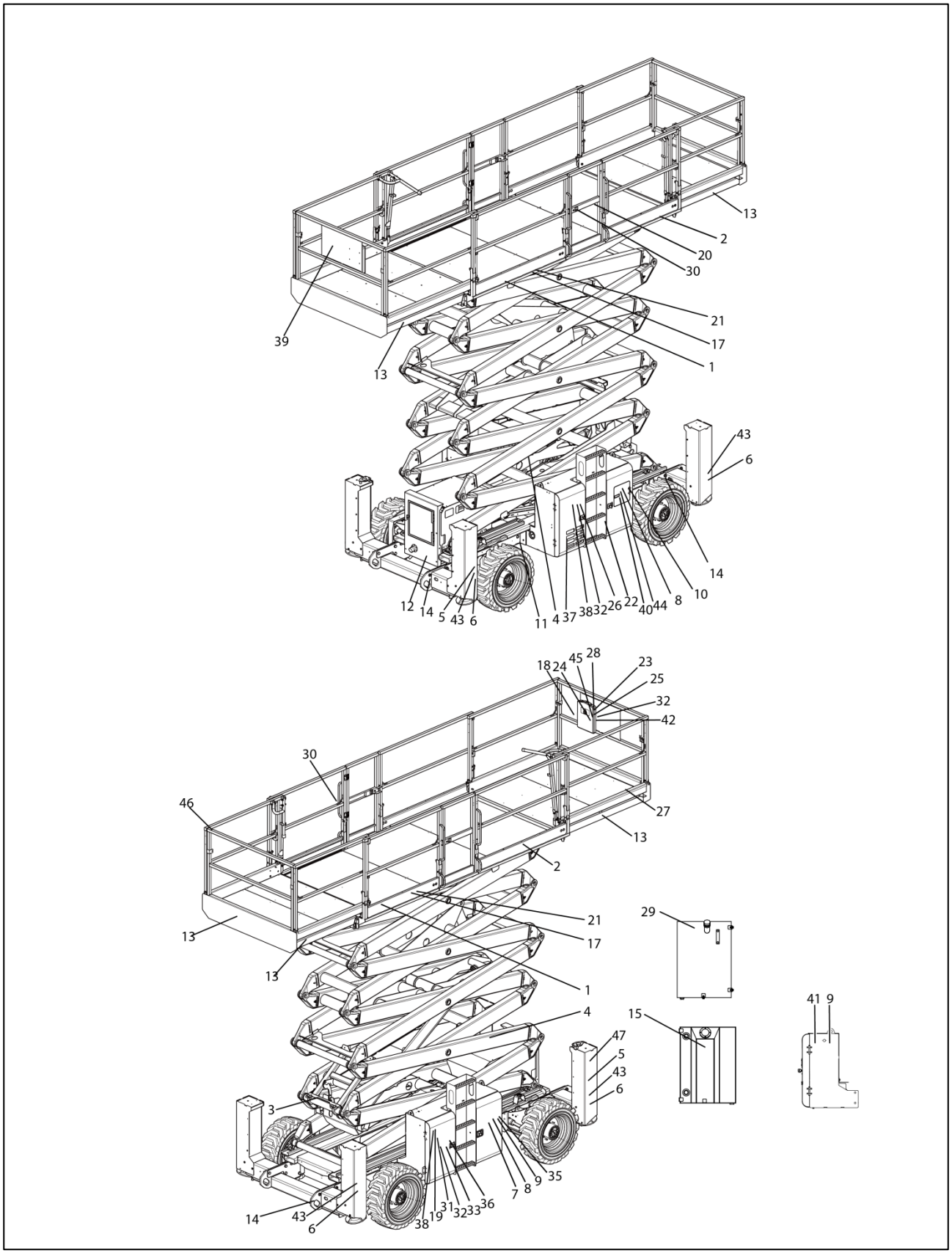
SR2669D/SR3369D/SR4069D Decals

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13-2534000024	14-2831990027	15-2534001377	16-2534001107	17-2534001889/905/2701	18-2534000986
					
19-2534001546	20-2534001762	21-2534001890/904/2702	22-2534001891	23-2534001016	24-2534000984
					
25-2534000033	26-2534001865	27-2534000017	28-2534000985	29-2534000987	30-2534000997
					
31-2534000998	32-2534000974	33-2534000975	34-2534001015	35-2534000978	36-2534000980
					

SR2669D/SR3369D/SR4069D Decals

37-2534003490	38-2534000220	39-2534001841	40-2534000177	41-2534000774	42-2534000775
					
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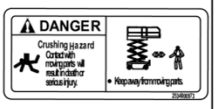
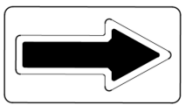
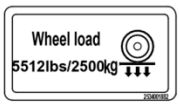
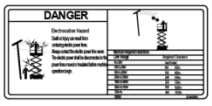
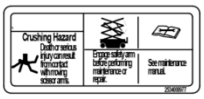
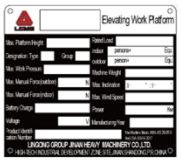
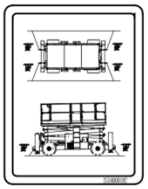
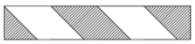
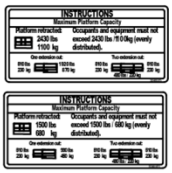
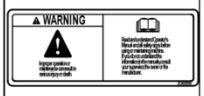
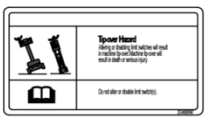
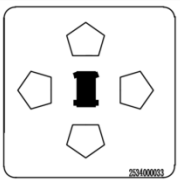
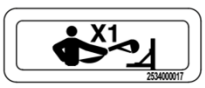
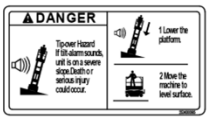
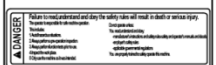
SR3390D/SR4390D/SR5390D Decals Diagram

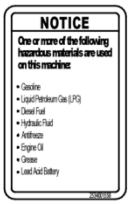
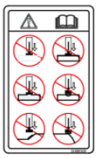


SR3390D/SR4390D/SR5390D Decals List

Code	Name	Code	Name
1	Company Logo	24	Safety Rules Description Sign
2	Model Identification	25	Arrow Indication Sign
3	Forklift Safety Arm Sign	26	Notices Sign
4	Stay Away From Machine Sign	27	Lanyard Anchorage Point
5	Direction Indicator Sign	28	Reduce Platform Warning Sign
6	Wheel Load Capacity Sign	29	Identification Of Hydraulic Oil Tank
7	Electric Shock Hazard	30	Operation Sign
8	Pressure Hazard Identification	31	Prohibition Of Sparks Sign
9	Decal-Instruction of Battery Switch	32	Attention In Overhaul
10	Emergency Lowing Mark	33	Fuel Tank Mark
11	Whole Machine Nameplate	34	Description Of File Loss
12	Identification Of Transport Securing Parts	35	Danger Description
13	Warning Line	36	Attention Mark Of Skin Infraction
14	Hanger Sign	37	Side Door Identification
15	Fuel Tank Sign	38	Company Logo
16	Maximum Manual Power	39	Company Logo
17	Warning Sign Of Platform Safety	40	102 dB
18	Instructions Sign	41	Power Off Sign
19	Explosion Burn Warning Sign	42	Pay Attention To The Identification Of Hazardous Materials
20	No-Insulated Sign	43	Stay Away From The Outrigger
21	Maximum Manual Power	44	Warning Sign Of Explosion Hazard
22	Side Door Identification	45	Notice Sign
23	Annual Inspection Instruction	46	Notice Sign
		47	Decal-Ground check

SR3390D/SR4390D/SR5390D Decals

1-2534000335	2-2534001410/39/25	3-2534000992	4-2534000973	5-2534000102	6-2534001882
					
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13-2534000024	14-2831990027	15-2534000775	16-2534003082	17-2534001883/75	18-2534000986
					
19-2534001546	20-2534001762	21-2534003082	22-2534000987	23-2534001016	24-2534000984
					
25-2534000033	26-2534001841	27-2534000017	28-2534000985	29-2534000774	30-2534000997
					
31-2534000998	32-2534000974	33-2534000177	34-2534001015	35-2534000978	36-2534000980
					

37-2534001881	38-2534000220	39-2534000221	40-2534003559	41-2534002173	42-2534001558
					
43-2534001827	44-2534001839	45-2534001865	46-2534001878	47-2534003526	
					

Chapter 4 Specifications

SR2669D (S266900WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	35±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	30±4
Weight of whole machine (Without outrigger/ With outrigger) (kg/lbs)	3700/8157 4170/9193	Theoretical climbing ability (no-load, stowed position) (Without outrigger/ With outrigger)	40%/35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	4	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	9.7/31.8	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	7.7/25.3	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	7.7/25.3	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position)(m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (Without outrigger/ With outrigger) (m/ft)	3.11/10.2 3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.58/8.46	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.92/6.30	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF02	Rated speed (r/min)	3000
Rated power (kW)	18.2	Maximum torque (N.m)	71.5
Displacement (L)	1.1	Emission standard	EPA T4f

Drive System

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	21/3045

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	50/13.2	Chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

SR2669D (S266900WNK4AH2002) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	35±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	30±4
Weight of whole machine (Without outrigger/ With outrigger) (kg/lbs)	3700/8157 4170/9193	Theoretical climbing ability (no-load, stowed position) (Without outrigger/ With outrigger)	40%/35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	4	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	9.7/31.8	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	7.7/25.3	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	7.7/25.3	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position)(m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (Without outrigger/ With outrigger) (m/ft)	3.11/10.2 3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.58/8.46	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.92/6.30	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF06e	Rated speed (r/min)	2500
Rated power (kW)	15.7	Maximum torque (N.m)	71.3
Displacement (L)	1.1	Emission standard	EPA T4f

Drive System

Item		Specification/Content
Driving reducer	Output torque (N*m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

SR2669D (S081800WSK3AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	35±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	30±4
Weight of whole machine (Without outrigger/ With outrigger) (kg/lbs)	3700/8157 4170/9193	Theoretical climbing ability (no-load, stowed position) (Without outrigger/ With outrigger)	40%/35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	4	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	9.7/31.8	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	7.7/25.3	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	7.7/25.3	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position)(m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (Without outrigger/ With outrigger) (m/ft)	3.11/10.2 3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.58/8.46	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.92/6.30	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	WG972-GL-EF	Rated speed (r/min)	3200
Rated power (Gasoline/LPG) (kW)	20.5	Maximum torque (Gasoline/LPG)(N.m)	66.6/2400 66.2/2000
Displacement (L)	0.962	Emission standard	EPA / Tier 3

Drive System

Item		Specification/Content
Driving reducer	Output torque (N*m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and gasoline are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	SAE 15W-40	2.5/0.66	SL or better than SL class
	Working temperature:-25℃～30℃	SAE 10W-30		
	Working temperature:-30℃～30℃	SAE 5W-30		
	Working temperature:-35℃～20℃	SAE 0W-20		
Gasoline (L/Gal)	/	Unleaded gasoline with E10 only	53/14	
LPG(L)		Commercial LPG	35	
Antifreeze （L/Gal）	/	/	3.2/0.85	SAE J1034

SR3369D (S336900WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	454/1000	Ascending speed (s)	39±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	46±4
Weight of whole machine (kg/lbs)	4330/9545	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	11.7/38.4	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	9.7/31.8	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	9.7/31.8	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.55/8.37	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.89/6.2	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF06e	Rated speed (r/min)	2500
Rated power (kW)	15.7	Maximum torque (N.m)	71.3
Displacement (L)	1.1	Emission standard	EPA T4f

Drive System

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

SR3369D (S33690NKAH20) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	454/1000	Ascending speed (s)	39±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	46±4
Weight of whole machine (kg/lbs)	4330/9545	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	11.7/38.4	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	9.7/31.8	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	9.7/31.8	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.55/8.37	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.89/6.2	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF02	Rated speed (r/min)	3000
Rated power (kW)	18.2	Maximum torque (N.m)	71.5
Displacement (L)	1.1	Emission standard	EPA T4f

Drive system

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	21/3045

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel （L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

SR3369D (S101800WSK3AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	454/1000	Ascending speed (s)	39±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	46±4
Weight of whole machine (kg/lbs)	4330/9545	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (Indoor)	4	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	11.7/38.4	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	9.7/31.8	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	9.7/31.8	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.55/8.37	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	1.89/6.2	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/ Φ26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	WG972-GL-EF	Rated speed (r/min)	3200
Rated power (Gasoline/LPG) (kW)	20.5	Maximum torque (Gasoline/LPG)(N.m)	66.6/2400 66.2/2000
Displacement (L)	0.962	Emission standard	EPA / Tier 3

Drive System

Item	Specification/Content

Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	SAE 15W-40	2.5/0.66	SL or better than SL class
	Working temperature:-25℃～30℃	SAE 10W-30		
	Working temperature:-30℃～30℃	SAE 5W-30		
	Working temperature:-35℃～20℃	SAE 0W-20		
Gasoline (L/Gal)	/	Unleaded gasoline with E10 only	53/14	
LPG(L)		Commercial LPG	35	
Antifreeze （L/Gal）	/	/	3.2/0.85	SAE J1034

Specifications

SR4069D (S406900WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	365/805	Ascending speed (s)	64±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	55±4
Weight of whole machine (kg/lbs)	5080/11200	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (In door)	3	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	13.9/45.6	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	11.9/39	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	11.9/39	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.7/8.86	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	2.04/6.69	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/Φ 26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF06e	Rated speed (r/min)	2500
Rated power (Kw)	15.7	Maximum torque (N.m)	71.3
Displacement (L)	1.1	Emission standard	EPA T4f

Drive System

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel （L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

Specifications

SR4069D (S40690NKAH20) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	365/805	Ascending speed (s)	64±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	55±4
Weight of whole machine (kg/lbs)	5080/11200	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (Indoor)	3	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	13.9/45.6	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	11.9/39	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	11.9/39	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.7/8.86	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	2.04/6.69	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/Φ 26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	D1105-EF02	Rated speed (r/min)	3000
Rated power (Kw)	18.2	Maximum torque (N.m)	71.5
Displacement (L)	1.1	Emission standard	EPA T4f

Drive System

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	21/3045

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	15W-40	3.5/0.92	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel （L/Gal）	/	/	53/14	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	4/1.06	

Specifications

SR4069D (S406900WSK3AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	365/805	Ascending speed (s)	61±4
Load of extension platform (kg/lbs)	140/310	Descending speed (s)	55±4
Weight of whole machine (kg/lbs)	5100/11245	Theoretical climbing ability (no-load, stowed position)	35%
Maximum number of workers (Indoor)	3	Maximum Leveling angle-Outrigger (Front and rear)	5.7° /5.5°
Maximum number of workers (Outdoor)	2	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	13.9/45.6	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	11.9/39	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	11.9/39	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	4.75/15.58	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	5.5/3.4	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	0.5/0.28		
Maximum braking distance (no-load, stowed position) (m/ft)	1.5/4.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	3.76/12.33	Extending size of platform(m/ft)	1.52/4.99
Width of whole machine (m/ft)	1.79/5.87	Wheel base (front/rear) (mm/in)	2290/90.1
Height of whole machine - unfolded guard railing (m/ft)	2.7/8.86	Thread (mm/in)	1507/59.3
Height of whole machine - folded guard railing (m/ft)	2.04/6.69	Ground clearance (mm/in)	230/9.06
Dimension of main platform (length × width) (m/ft)	2.79×1.60/ 9.15×5.25	Tire specification (diameter × width)(mm/in)	Φ663×283/Φ 26×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	WG972-GL-EF	Rated speed (r/min)	3200
Rated power (Gasoline/LPG) (Kw)	20.5	Maximum torque (Gasoline/LPG)(N.m)	66.6/2400 66.2/2000
Displacement (L)	0.962	Emission standard	EPA / Tier 3

Drive system

Item		Specification/Content
Driving reducer	Output torque (N.m)	3390

Hydraulic System

Item			Specification/Content
Driving system	Model		Open system
	Pump displacement (ml/r)		16
	Max working Pressure (Mpa/psi)		21/3045
	Motor displacement (ml/r) (Front/Rear)		375/25
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	15/2175

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	80
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and gasoline are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	50/13.2	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×2/ 0.18×2	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	SAE 15W-40	2.5/0.66	SL or better than SL class
	Working temperature:-25℃～30℃	SAE 10W-30		
	Working temperature:-30℃～30℃	SAE 5W-30		
	Working temperature:-35℃～20℃	SAE 0W-20		
Gasoline (L/Gal)	/	Unleaded gasoline with E10 only	53/14	
LPG(L)		Commercial LPG	35	
Antifreeze （L/Gal）	/	/	3.2/0.85	SAE J1034

Specifications

SR3390D (S33900NDAH20) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	1100/2430	Ascending speed (s)	40±5
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	45±5
Weight of whole machine (kg/lbs)	6880/15170	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (Indoor)	7	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	7	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	12/39.4	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	10/32.8	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	10/32.8	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	2.74/8.99	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.06/6.76	Ground clearance (mm/in)	210/8.27
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	DEUTZ D2.9L4	Rated speed (r/min)	2600
Rated power (Kw)	36.4	Maximum torque (N.m)	150
Displacement (L)	2.925	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil (L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil (L/Gal)	Working temperature:-20℃～40℃	15W-40	8/2.1	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Specifications

SR3390D (S339000WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	1100/2430	Ascending speed (s)	40±5
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	45±5
Weight of whole machine (kg/lbs)	6880/15170	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (Indoor)	7	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	7	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	12/39.4	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	10/32.8	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	10/32.8	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	2.74/8.99	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.06/6.76	Ground clearance (mm/in)	230/9
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	V2403-CR-EW02	Rated speed (r/min)	2600
Rated power (Kw)	36	Maximum torque (N.m)	159.8
Displacement (L)	2.4	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	8.5/2.2	API CJ-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Specifications

SR4390D (S43900NDAH20) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	55±5
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	55±5
Weight of whole machine (kg/lbs)	7360/16230	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (Indoor)	7	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	7	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	15/49.2	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	13/42.65	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	13/42.65	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	2.96/9.71	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.28/7.48	Ground clearance (mm/in)	210/8.27
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	DEUTZ D2.9L4	Rated speed (r/min)	2600
Rated power (Kw)	36.4	Maximum torque (N.m)	150
Displacement (L)	2.925	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	8/2.1	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Specifications

SR4390D (S439000WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	55±5
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	55±5
Weight of whole machine (kg/lbs)	7360/16230	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (In door)	7	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	7	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	15/49.2	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	13/42.65	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	13/42.65	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	2.96/9.71	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.28/7.48	Ground clearance (mm/in)	230/9
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	V2403-CR-EW02	Rated speed (r/min)	2600
Rated power (Kw)	36	Maximum torque (N.m)	159.8
Displacement (L)	2.4	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	8.5/2.2	API CJ-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Specifications

SR5390D (S53900NDAH20) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	55±2
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	55±2
Weight of whole machine (kg/lbs)	8100/17860	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (In door)	4	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	4	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	17.9/58.7	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	15.9/52.2	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	8.5/27.9	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	3.18/10.43	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.5/8.2	Ground clearance (mm/in)	210/8.27
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	DEUTZ D2.9L4	Rated speed (r/min)	2600
Rated power (Kw)	36.4	Maximum torque (N.m)	150
Displacement (L)	2.925	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	8/2.1	API CH-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Specifications

SR5390D (S539000WNK4AH2000) Specifications

Performance Specifications

Item	Parameters	Item	Parameters
Rated load (kg/lbs)	680/1500	Ascending speed (s)	55±2
Load of extension platform (kg/lbs)	230/510	Descending speed (s)	55±2
Weight of whole machine (kg/lbs)	8100/17860	Theoretical climbing ability (no-load, stowed position)	40%
Maximum number of workers (In door)	4	Maximum Leveling angle-Outrigger (Front and rear)	7°
Maximum number of workers (Outdoor)	4	Maximum Leveling angle-Outrigger (Left and right)	12°
Maximum working height (m/ft)	17.9/58.7	Maximum allowable angle of operation (front and rear)	3°
Maximum platform height (m/ft)	15.9/52.2	Maximum allowable angle of operation (left and right)	2°
Running height (m/ft)	8.5/27.9	Maximum inner wheel angle	45°
Minimum turning radius (m/ft)	5.33/17.45	Maximum wind speed (m/s/mph)	12.5/28
Running speed of machine (Stowed) (km/h)/mph	6.1/3.78	Driving type	Four-wheel drive Front wheel steer
Running speed of machine (Platform raised) (km/h)/mph	1.1/0.628		
Maximum braking distance (no-load, stowed position) (m/ft)	1.8/5.9		

Main Dimensions

Item	Parameters	Item	Parameters
Length of whole machine (m/ft)	4.9/16.1	Extending size of platform(m/ft)	1.45/1.14 4.76/3.74
Width of whole machine (m/ft)	2.3/7.55	Wheel base (front/rear) (mm/in)	2850/111.2
Height of whole machine - unfolded guard railing (m/ft)	3.18/10.43	Thread (mm/in)	1993/78.4
Height of whole machine - folded guard railing (m/ft)	2.5/8.2	Ground clearance (mm/in)	230/9
Dimension of main platform (length × width) (m/ft)	3.98×1.83/ 13.06×6	Tire specification (diameter × width)(mm/in)	Φ835×290/ Φ33×12

Engine System

Item	Parameters/Contents	Item	Parameters/Contents
Model	V2403-CR-EW02	Rated speed (r/min)	2600
Rated power (Kw)	36	Maximum torque (N.m)	159.8
Displacement (L)	2.4	Emission standard	EPA T4f

Hydraulic System

Item			Specification/Content
Driving system	Model		Close system
	Pump displacement (ml/r)		46
	Max working Pressure (Mpa/psi)		28/4060
	Motor displacement (ml/r) (Front/Rear)		38/38
Functional system	Model		Open system
	Pump displacement (ml/r)		16
	Lifting system	Max working Pressure (Mpa/psi)	20/2900
	Steering system	Max working Pressure (Mpa/psi)	13.8/2001

Electrical System

Item		Specification/Content
Battery	Output voltage (V)	12
	Capacity (Ah)	120
Control system	Voltage (V)	12

Fueling Capacity

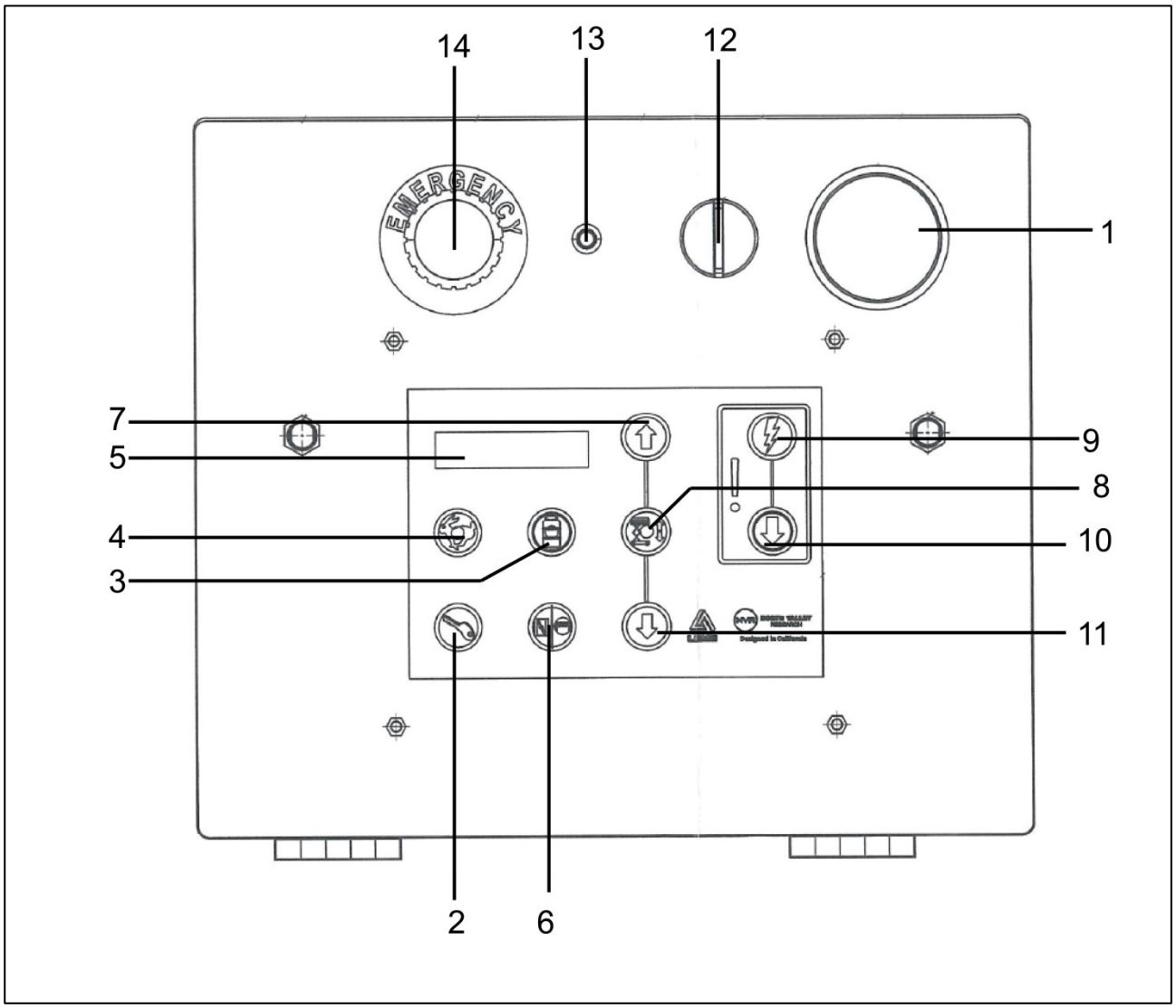
⚠ NOTE: When hydraulic oil and diesel are filled, it is necessary to use the corresponding hydraulic oil and diesel according to operating environment and temperature, and refer to the following contents:

Item	Condition	Type	Capacity	Remarks
Hydraulic oil(L/Gal)	/	Rando MV32	140/37	chevron
Driving Reducer oil (L/Gal)	30°C＜The lowest temperature	85W/140	0.68×4/ 0.18×4	API GL-5
	-10°C＜The lowest temperature＜ 30°C	85W/90		
	-30°C＜The lowest temperature＜ -10°C	80W/90		
	The lowest temperature＜-30°C	75W		
Engine oil(L/Gal)	Working temperature:-20℃～40℃	15W-40	8.5/2.2	API CJ-4
	Working temperature:-25℃～30℃	10W-30		
	Working temperature:-30℃～30℃	5W-30		
	Working temperature:-35℃～20℃	0W-20		
Diesel（L/Gal）	/	/	100/26.4	ASTM D975 ULSD
Antifreeze （L/Gal）	/	/	8.5/2.2	

Chapter 5 Control Station

5.1 Ground Control Station

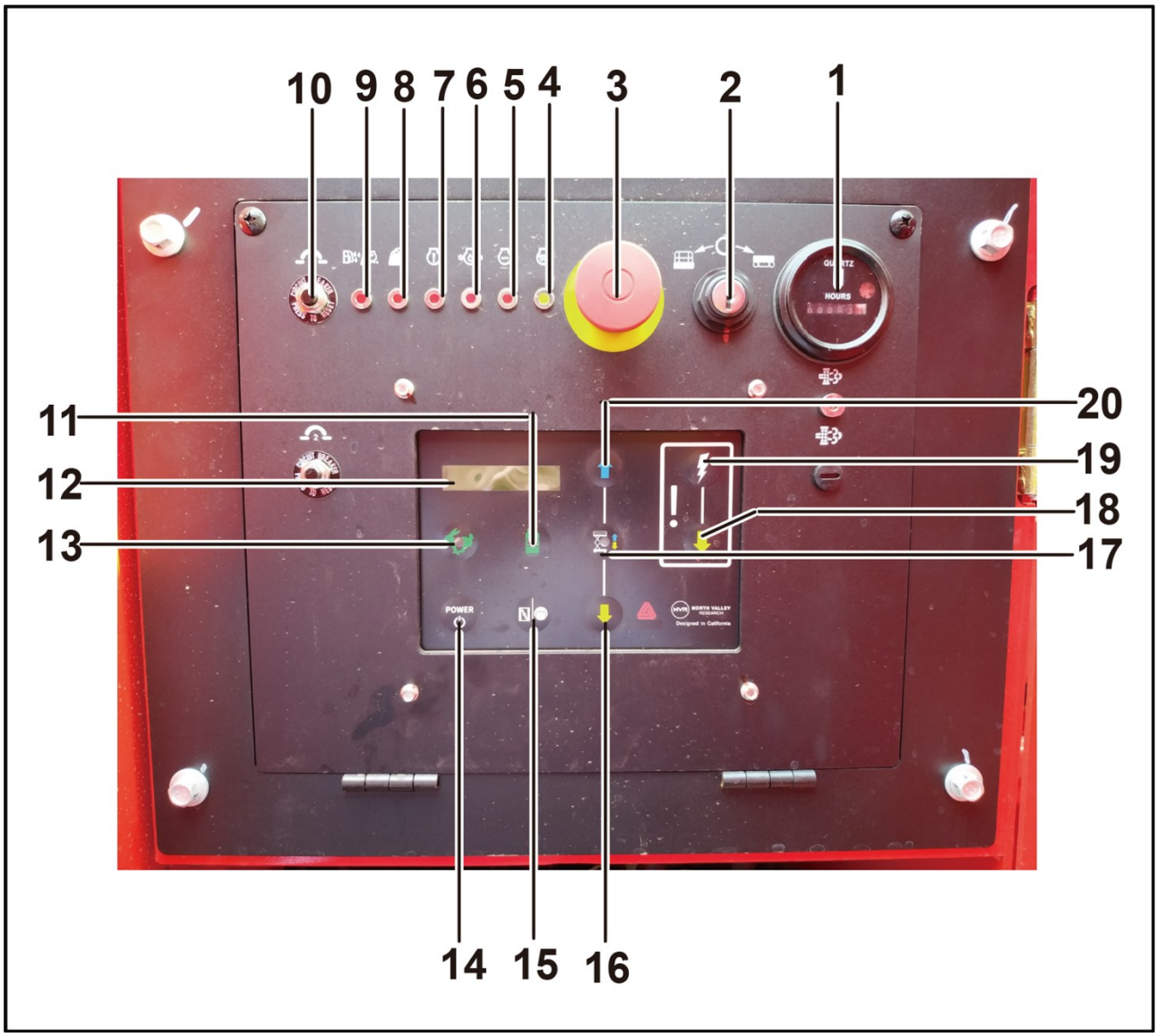
5.1.1 Ground Control Station-SR2669D/SR3369D/SR4069D



No.	Name	Operation function description
1	Timer(If equipped)	The timer displays hours that the machine has been running. The running time of machine can also be displayed by ground controller.
2	Startup button of engine	Press this button to start up the engine.
3	Gasoline/LPG model: LPG operating button with indicator	Press this button to select fuel. Light on indicates that LPG is selected. Light off indicates gasoline is selected.
4	Idling selection button of engine with indicator	Press this button to select the idling setting of engine. The indicator is on, indicating that the high idling has been selected. The indicator is off, indicating that the low idling has been selected.
5	LCD display	
6	Diesel models: Glow plug button	Press this button to activate the glow plug.

		Note: This button function is optional and only applies to vehicles equipped with the D1105 EF02 engine, the rest of the vehicles are automatically preheated.
7	Lift button of platform	Press this button to lift the platform.
8	Enabling button with lift function	Press this button to activate the lift function.
9	Enabling button with standby auxiliary function	Press this button to activate the emergency descending function.
10	Standby auxiliary descending button	Press this button to activate the emergency descending function.
11	Descending button of platform	Press this button to descend the platform.
12	Selection of key switch for platform/off/Ground Control Station	Turn the key switch to the platform, and then Platform Control Station will run. Turn the key switch to OFF position, and then the machine will be shut down. Turn the key switch to the ground, and then Ground Control Station will run.
13	Platform overload indicator	
14	Red "emergency shutdown" button	Push the red "emergency shutdown" button inward to Off position to stop all functions. Pull the red "emergency shutdown" button out to On position to operate the machine.

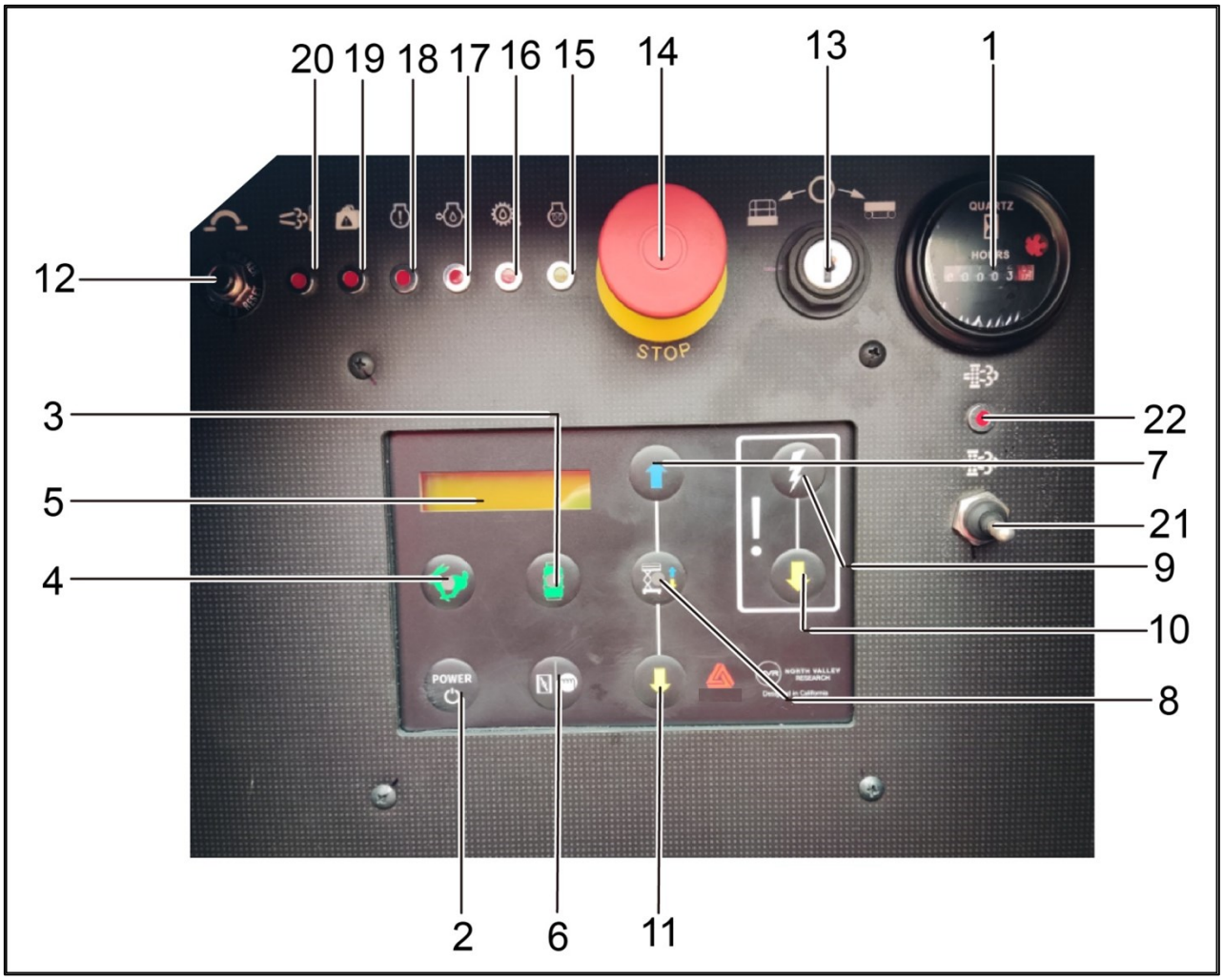
5.1.2 Ground Control Station-SR3390D/SR4390D/SR5390D



No.	Name	Operation function description
1	Timer(If equipped)	The timer displays hours that the machine has been running. The running time of machine can also be displayed by ground controller.
2	Selection of key switch for platform/off/Ground Control Station	Turn the key switch to the platform, and then Platform Control Station will run. Turn the key switch to OFF position, and then the machine will be shut down. Turn the key switch to the ground, and then Ground Control Station will run.
3	Red "emergency shutdown" button	Push the red "emergency shutdown" button inward to Off position to stop all functions. Pull the red "emergency shutdown" button out to On position to operate the machine.
4	Preheat indicator (If equipped)	

5	Water temperature indicator(If equipped)	
6	Engine oil pressure indicator(If equipped)	
7	Engine warning indicator(If equipped)	
8	Platform overload indicator(If equipped)	
9	Water in fuel indicator(If equipped)	
10	Circuit breaker	
11	Gasoline/LPG model: LPG operating button with indicator(If equipped)	Press this button to select LPG.
12	LCD display	
13	Idling selection button of engine with indicator	Press this button to select the idling setting of engine. The indicator is on, indicating that the high idling has been selected. The indicator is off, indicating that the low idling has been selected.
14	Startup/stop button of engine	Press this button to start up or stop the engine.
15	Reserve	
16	Descending button of platform	Press this button to descend the platform.
17	Enabling button with lift function	Press this button to activate the lift function.
18	Standby auxiliary descending button	Press this button to activate the emergency descending function.
19	Enabling button with standby auxiliary function	Press this button to activate the emergency descending function.
20	Lift button of platform	Press this button to lift the platform.

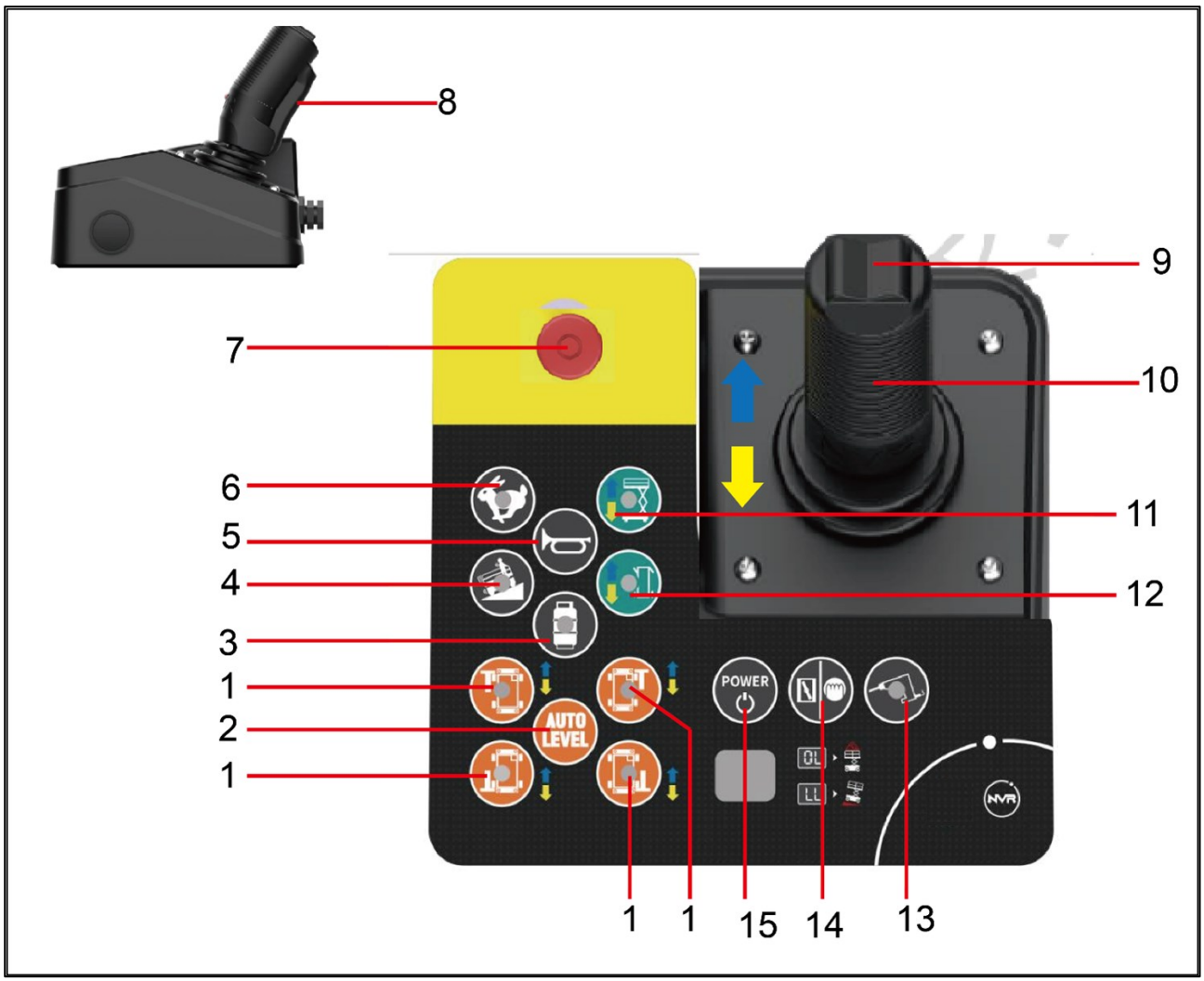
5.1.3 Ground Control Station-SR3390D/SR4390D/SR5390D



No.	Name	Operation function description
1	Timer(If equipped)	The timer displays hours that the machine has been running. The running time of machine can also be displayed by ground controller.
2	Startup/stop button of engine	Press this button to start up or stop the engine.
3	Gasoline/LPG model: LPG operating button with indicator	Press this button to select fuel. Light on indicates that LPG is selected. Light off indicates gasoline is selected.
4	Idling selection button of engine with indicator	Press this button to select the idling setting of engine. The indicator is on, indicating that the high idling has been selected. The indicator is off, indicating that the low idling has been selected.
5	LCD display	
6	Reserve	.
7	Lift button of platform	Press this button to lift the platform.
8	Enabling button with lift function	Press this button to activate the lift function.
9	Enabling button with standby auxiliary	Press this button to activate the emergency

	function	descending function.
10	Standby auxiliary descending button	Press this button to activate the emergency lowering function.
11	Descending button of platform	Press this button to descend the platform.
12	Circuit breaker	
13	Selection of key switch for platform/off/Ground Control Station	Turn the key switch to the platform, and then Platform Control Station will run. Turn the key switch to OFF position, and then the machine will be shut down. Turn the key switch to the ground, and then Ground Control Station will run.
14	Red "emergency shutdown" button	Push the red "emergency shutdown" button inward to Off position to stop all functions. Pull the red "emergency shutdown" button out to On position to operate the machine.
15	Preheat indicator	
16	Water temperature indicator	
17	Engine oil pressure indicator	
18	Engine warning indicator	
19	Platform overload indicator	
20	Active regeneration indicator	
21	Regeneration button	
22	Parked regeneration request indicator	

5.2 Platform Control Station



No.	Name	Operation function description
1	Functional enabling button of outrigger with indicator	Press and hold this button to activate the ascending/descending functions of single outrigger.
2	Automatic leveling button of outrigger	Press and hold this button to activate the automatic leveling function.
3	Gasoline/LPG model: LPG operating button with indicator	Press this button to select fuel. Light on indicates that LPG is selected. Light off indicates gasoline is selected.
4	Machine tilt button with indicator: Please operate it at a low speed during tilt.	Press this button to perform operation at a low speed during tilt.
5	Horn button	Press this button, and the horn will sound. Release this button, and the horn will stop sounding.
6	Idling selection button of engine with indicator	Press this button to select the idling setting of engine. The indicator is on, indicating that the high idling has been selected. The indicator is off, indicating that the intermediate and low idling has been selected.
7	Red emergency shutdown button	For R90D series models equipped with EPA T4f engines: Do not operate the emergency shutdown button to stop the engine, unless in emergency situations.

		Other models: Push the red emergency shutdown button inward to Off position to stop all functions and shut down the engine. All: After stopping the engine with the emergency shutdown button, please pull out the button to ensure that the power is connected. Pull the red emergency shutdown button out to On position to operate the machine.
8	Enabling switch	Press the enabling switch to start up the function.
9	Thumb rocker switch for steering function	Press the enable switch and press the left side of the thumb rocker, then the machine will turn to the left. Press the enable switch and press the right side of the thumb rocker, then the machine will turn to the right.
10	Proportional control handle of driving/lifting /Outrigger function	Press the driving function button, press the enable switch and move the control handle in the direction indicated by the blue arrow or yellow arrow on control panel, and then the machine will move in the direction indicated by the blue arrow or yellow arrow. Press the lifting function button, press the enable switch and move the control handle backward, and then the machine will lift; move the control handle forward, and then the machine will lower. Press and hold the outrigger function button, press the enable switch and move the control handle in the direction indicated by the yellow arrow or blue arrow on control panel, and then the outrigger will extend or retract.
11	Enabling button of lift function with indicator	Press this button to activate the lift function.
12	Enabling button of drive function with indicator	Press this button to activate the walking function.
13	Hydraulic generator (If equipped)	Press this button to turn the generator on. Press the button again to turn the generator off.
14	Diesel models: Glow plug button	Diesel models: Press this button to activate the glow plug. Note: This button function is optional and only applies to vehicles equipped with the D1105 EF02 engine, the rest of the vehicles are automatically preheated.
15	Startup/stop button of engine	For R90D series models equipped with EPA T4f engines: Press this button to start up or stop the engine. Other models: Press this button to start up the engine.

5.3 Basic Operation

Basic Operation Principle

1) The machine's electrical wiring and harnesses are complete, and form a complete circuit. The sensors work normally, the main power supply is connected, and the function of the key switch and emergency shutdown switch is normal.

2) Open the key switch, select the upper control unit or the lower control unit, and pull out the upper and lower control units emergency shutdown switch, and then the vehicle has no alarm and error code.

3) For normal operation of the machine, press and hold the enable switch and functional control, and move the control handle or switch to cause the desired operation of the machine.

Ground Control Station Operation

1) Engine Startup or Shutdown

   a) When the key switch is in the lower control mode, pull out the emergency shutdown switch. The lower control LCD will display System Ready.

   b) Starting the engine

   c) Press the engine startup button about 3 seconds.

   d) Shutdown the engine

   e) For R90D series models equipped with EPA T4f engines:

      Press the engine startup/stop button to stop the engine.

   f) Other models:

   g) Push the red emergency shutdown button inward to off position to stop all functions and shut down the engine.

   h) After stopping the engine with the emergency shutdown button, please pull out the button to ensure that the power is connected.

2) Platform Lift

Start the engine in lower control mode; press the button for lift. The platform will lift or lower depending upon the direction the switch is pressed.

3) Emergency Descent

When unable to lower the platform normally due to a fault, enable the emergency descending function. Simultaneously press the auxiliary function enabling button and the auxiliary descent button to lower the platform.

Platform Control Station Operation

1) Engine Startup or Shutdown

   a) Turn the key switch to the upper control mode, the lower control LCD will display System Ready.

   b) Starting the engine

   c) Press the engine startup button about 3 seconds.

   d) Shutdown the engine

   e) For R90D series models equipped with EPA T4f engines:

   f) Press the engine startup/stop button to stop the engine.

   g) Other models:

   h) Push the red emergency shutdown button inward to off position to stop all functions and shut down the engine.

   i) After stopping the engine with the emergency shutdown button, please pull out the button to ensure that the power is connected.

2) Driving

   a) After completion of system initialization and startup of engine, observe if there are any personnel or obstacles around. Press the horn button before driving, to alert personnel the machine will be driving.

   b) Press the driving function button and enable button on the Platform Control Station, and push the drive handle forward or backward, and then the

vehicle will drive forward or backward.

c) The vehicle will stop when the enable switch is released or the control handle is returned to the neutral position,.

3) Steering

Press the driving function button. Press the enable button on Platform Control Station and the thumb rocker switch to the left or right, the vehicle will turn to the left or right. Release the enabling switch or the steering switch to stop steering.

4) Lifting and Lowering

Turn the key switch to the upper control mode, start the engine, press the button with lift function, press the enable button and move the control handle. The platform will lift when the control handle move to the backward; and the platform will lower when the control handle move to the forward.

5) Outriggers

Turn the key switch to the upper control mode, start the engine, press and hold one of the four outrigger function enable buttons, press the enable switch and move the control handle. The outrigger will extend and retract depending upon the direction the button was pushed. After the outrigger is firmly set, the indicator on the button will be on.

Note: Check for interference before retracting outriggers or they could get stuck.

6) Automatic Leveling

When the machine is tilted, it is necessary to use outriggers to level the vehicle. The control system allows automatic leveling using the outriggers. Turn the key switch to the upper control mode, start the engine, press and hold the automatic leveling button, press the enable switch and move the control handle in the direction of yellow arrow or blue arrow, the outrigger will extend or retract. After leveling, the four lamps on outrigger button will be on; push the switch, there will be an alarm. At this moment, the outrigger cannot extend, indicating that the vehicle is in leveling mode.

System fault diagnosis and fault code-SR69D/SR90D

Display	Error code	Description	Solution
0×01 Internal ECU Fault	01	Main control system Ground Control Station Error	Replace the Ground Control Station
0×02 Platform ECU Fault	02	Communication error	Check the wiring, and replace the upper and lower control units separately to determine the fault if the wiring is in a good condition
0×07 lockout_two	07	lockout_two	Unlock by the server
0×09 Search statues	09	Search statues	Just remind the search statues, not fault
0×10 Pressure Compens Fault	10	Unipath voltage-type compensating-pressure sensor fault（occur in machines with two compensating-pressure sensors）	Check the wiring and Pressure sensor
0×0C Tilt alarm LL	0C	Tilt alarm LL	Move the machine to the level ground
0×0E Angle sensor fault	0E	Angle sensor fault	Check the wiring and Angle sensor
0×0F Pressure sensor fault	0F	Pressure sensor fault	Check the wiring and Pressure sensor
0×14 Chassis Start Sw Fault	14	Chassis start switch error while starting	Check the switch and the wiring
0×15 Chassis Choke Sw Fault	15	Chassis Choke opening error while starting	Check the switch and the wiring
0×16 Chassis Up Sw Fault	16	Rising switch opening error while starting	Check the switch and the wiring
0×17 Chassis Lift Sw Fault	17	Hoisting switch opening error while starting	Check the switch and the wiring
0×18 Chassis Down Sw Fault	18	Descending switch opening error while starting	Check the switch and the wiring
0×19 Left Turn Sw Fault	19	Platform left turn switch opening error while starting	Check the switch and replace the upper control unit
0×1A Right Turn Sw Fault	1A	Platform right turn switch opening error while starting	Check the switch and replace the upper control unit
0×1B Drive Enable Sw Flt	1B	Platform enabling switch opening error while starting	Check the switch and replace the upper control unit
0×1C Off Neutral Drive Joystick	1C	No platform handle in the middle position while starting	Check the handle and replace the upper control unit
0×1D Platform lift Sw Fault	1D	Lifting function key opening	Check the handle and replace the

Display	Error code	Description	Solution
		error	upper control unit
0×1E Off Neutral lift Joystick	1E	Center lifting operating handle closing	Check the handle and replace the upper control unit
0×1F Platform Choke Sw Fault	1F	Shutdown switch opening error while starting	Check the switch and replace the upper control unit
0×20 Platform Start Sw Fault	20	Platform ignition switch opening error while starting	Check the switch and replace the upper control unit
0×21 Left Front Outrig Sw Flt	21	Outrigger left front switch opening error while starting	Check the switch and replace the upper control unit
0×22 Right Front Outrig Sw Flt	22	Outrigger right front switch opening error while starting	Check the switch and replace the upper control unit
0×23 Left Rear Outrig Sw Flt	23	Outrigger left rear switch opening error while starting	Check the switch and replace the upper control unit
0×24 Right Rear Outrig Sw Flt	24	Outrigger right rear switch opening error while starting	Check the switch and replace the upper control unit
0×25 Auto Level Switch Fault	25	Automatic level switch opening error while starting	Check the switch and replace the upper control unit
0x26 Platform Walk Sw Fault	26	The button of walking on the PCU activated while the machine power on.	Check the button if necessary replace the PCU
0x28 LOST_COMM_GPS	28	Disconnect the communication between GCU and GPS	Check the wire between GCU and GPS
0x29 LOCKOUT_ONE	29	Lockout- primary level	Unlock the machine by the server
0×2A DOWNLIMIT DOWNLIMIT Fault	2A	Lower limit switch failure, lower limit switch trigger position and angle sensor detection height Inconsistent	Check the lower limit switch, check the angle sensor, or recalibrate the height
0×2B 9m limit fault	2B	9m limit switch failure, 9m limit switch trigger position and angle sensor detect high Degree of inconsistency	Check 9m limit switch, check angle sensor, or recalibrate altitude
0×2C Down limit SW Open Fault	2C	Down limit SW Open Fault	Check the down limit SW open connection
0×2D Down limit SW Close Fault	2D	Down limit SW Close Fault	Check the down limit SW close connection
0×2E 9M Limit SW Open Fault	2E	9M Limit SW Open Fault	Check the 9m limit SW open connection
0×2F 9m limit SW close	2F	9m limit sw close fault	Check the 9m limit SW close

Display	Error code	Description	Solution
fault			connection
0×34 Func Prop Coil Fault	34	Parallel valve coil fault	Check the circuit and replace the solenoid valve
0×36 Up Coil Fault	36	Rising valve coil fault	Check the circuit and replace the solenoid valve
0×37 Down Coil Fault	37	Falling valve coil fault	Check the circuit and replace the solenoid valve
0×38 Right Turn Coil Fault	38	Right-turn coil fault	Check the circuit and replace the solenoid valve
0×39 Left Turn Coil Fault	39	Left-turn coil fault	Check the circuit and replace the solenoid valve
0×3A Brake Coil Fault	3A	Brake coil fault	Check the circuit and replace the solenoid valve
0×42 Low Oil Pressure	42	Low oil pressure fault	Check the circuit and replace the pressure sensor
0×43 High Coolant Temperature	43	High oil temperature fault	Check the circuit and replace the temperature sensor
0×44 Low ECU Voltage	44	Low voltage fault	Check the circuit and battery, and replace the battery
0×45 Low Engine Rpm	45	Engine underspeed fault	Check the circuit and engine
0×46 High Engine RPM	46	Engine overspeed fault	Check the circuit and engine
0×47 RF Limit SW Close Fault	47	RF Limit SW Close Fault	Check the harness and travel switch
0×48 RF Limit SW Open Fault	48	RF Limit SW Open Fault	Check the harness and travel switch
0×49 RR Limit SW Close Fault	49	RR Limit SW Close Fault	Check the harness and travel switch
0×4A RR Limit SW Open Fault	4A	RR Limit SW Open Fault	Check the harness and travel switch
0×4B LF Limit SW Close Fault	4B	LF Limit SW Close Fault	Check the harness and travel switch
0×4C LF Limit SW Open Fault	4C	LF Limit SW Open Fault	Check the harness and travel switch
0×4D LR Limit SW Close Fault	4D	LR Limit SW Close Fault	Check the harness and travel switch
0×4E LR Limit SW Open Fault	4E	LR Limit SW Open Fault	Check the harness and travel switch
0×50 Left Front Otrg Coil Flt	50	Left front outrigger solenoid valve coil fault	Check the circuit and replace the solenoid valve
0×51 Left Rear Otrg Coil Flt	51	Left rear outrigger solenoid	Check the circuit and replace the

Display	Error code	Description	Solution
		valve coil fault	solenoid valve
0×52 Right Front Otrg Coil Flt	52	Right front outrigger solenoid valve fault	Check the circuit and replace the solenoid valve
0×53 Right Rear Otrg Coil Flt	53	Right rear outrigger solenoid valve fault	Check the circuit and replace the solenoid valve
0×54 Outrigger Ext Coil Flt	54	Outrigger extension solenoid valve fault	Check the circuit and replace the solenoid valve
0×55 Outrigger Ret Coil Flt	55	Outrigger retraction solenoid valve fault	Check the circuit and replace the solenoid valve
0x57 DPF Fault Lv3 Regeneration Needed	57	Alarming--DPF3 level	Operate DPF of the engine
0x58 DPF Fault Lv4 Regeneration Needed	58	Alarming--DPF4 level	Operate DPF of the engine
0x59 DPF Fault Lv5 Regeneration Needed	59	Alarming--DPF5 level	Operate DPF of the engine
0×5A 2 Speed Coil Fault	5A	2 Speed coil error	Check the circuit and replace the solenoid valve
0×5B Bypass Coil Fault	5B	Shunt coil fault	Check the circuit and replace the solenoid valve
0×5C Drive Fwd Prop Coil Fault	5C	Drive forward proportional coil error	Check the circuit and replace the solenoid valve
0×5D Drive Rev Prop Coil Fault	5D	Drive backward proportional coil error	Check the circuit and replace the solenoid valve
0×5E Machine Type Fault	5E	Model error	Reselect the correct model
0x5F Low Fuel	5F	Low Fuel	Check the fuel level and add the fuel
0x60 FreeWheel Coil Fault	60	Coil fault	Check the wire, replace the solenoid valve
0x61 ACCUM Coil Fault	61	Coil fault	Check the wire, replace the solenoid valve
0x62 HBY Coil Fault	62	Coil fault	Check the wire, replace the solenoid valve
0×63 Platform Overload Fault	63	Platform Overload Fault	Check the circuit and overload the platform
0X64 DPF Fault Lv6 Regeneration Needed	64	Alarming--DPF6 level	Operate DPF of the engine
0×65 Engine Fault	65	Engine Fault	Check engine maintenance manual,Conduct fault trouble shooting according to SPN
0×66 BPSCDNP	66	Fault of engine air inlet pressure sensor	Check the connector, sensor and the engine maintenance manual.
0×67 APP2SRC	67	Engine throttle pedal fault	Check the engine connector or sensor

Display	Error code	Description	Solution
0×68 OPSCD	68	Fault of the engine oil pressure	Check the connector, sensor and the engine maintenance manual.
0×69 BPSCD	69	Engine air intake pressure sensor fault	Check the engine connector or sensor
0×6A IATSCDSRC	6A	Engine air intake temperature sensor fault	Check the engine connector or sensor
0×6B CTSCD	6B	water temperature sensor fault	Check the engine connector or sensor
0×6C RAILCDOFSTST	6C	Rail pressure sensor failure	Check the engine connector or sensor
0×6D BATTCDSRC	6D	Battery voltage fault	Check the engine connector or sensor
0×6E OTSCD	6E	Oil temperature sensor fault	Check the engine connector or sensor
0×6F INJINI	6F	INJdriverIC initialization version number error	Check the engine connector or sensor
0×70 MSSCD	70	Multi-state switch signal failure	Check the engine connector or sensor
0×71 TECUSRC	71	ECU temperature sensor failure	Check the engine connector or sensor
0×72 INVLVCYL1	72	Injector 1 malfunction	Check the engine connector or sensor
0×73 NVLVCYL2	73	Injector 2 failure	Check the engine connector or sensor
0×74 INJVLVCYL3	74	Injector 3 failure	Check the engine connector or sensor
0×75 INVLVCYL4	75	Injector 4 malfunction	Check the engine connector or sensor
0×76 MEUNCD	76	Fuel gauge failure	Check the engine connector or sensor
0×77 ENGSPD	77	Engine speed signal failure	Check the engine connector or sensor
0×78 FANCDSP	78	Cooling fan speed failure	Check the engine connector or sensor
0×79 STRTCDLSSC	79	Starter motor relay failure	Check the engine connector or sensor
0×7A ENGPRTOVRSPD	7A	Engine speed overspeed	Check the engine connector or sensor
0×7B HWEMONEEPRO M	7B	eeprom read error	Check the engine connector or sensor
0×7C AIRHT	7C	Intake heating normally	Check the engine connector or

Display	Error code	Description	Solution
		open failure	sensor
0×7D ENGMCAS	7D	Missing camshaft signal	Check the engine connector or sensor
0×7E ENGMCRS	7E	Missing crankshaft signal	Check the engine connector or sensor
0×7F COMT5OST	7F	dec1 message t50 signal Receive error	Check the engine connector or sensor
0×80 GEARDETERR	80	The idle sleep switch does not work properly when the ecu powered on	Check the engine connector or sensor
0×81 ECBTCDPLAUS	81	Start / stop button stuck under car	Check the engine connector or sensor
0×82 FRMMNGTRF1	82	can receive trf1 data amount error	Check the engine connector or sensor
0×83 COMGPSDRV	83	t15 The time when the engine speed is 0 without powering off exceeds a certain value	Check the engine connector or sensor
0×84 RAILME	84	The amount of fuel in the fuel gauge exceeds the threshold	Check the engine connector or sensor
0×85 NETMNGCANA	85	Can communication error	Check the engine connector or sensor
0×86 FRMMNGEBC1	86	can receive frame ebc1 data length error	Check the engine connector or sensor
0×87 FRMMNGEBC2	87	Data length error	Check the engine connector or sensor
0×88 MNGENGTEMP2	88	CAN receive EngTemp2 data volume error	Check the engine connector or sensor
0×89 FRMMNGERC1DR	89	can receive frame erc1dr data volume error	Check the engine connector or sensor
0×8A FRMMNGETC1	8A	etc1 message data length error	Check the engine connector or sensor
0×8B FRMMNGETC2	8B	Can receive frame etc2 data amount error	Check the engine connector or sensor
0×8C FRMMNGRXCCVS	8C	RxCCVS message data length error	Check the engine connector or sensor
0×8D FRMMNGTCO1	8D	can receive frame tco1 message length error	Check the engine connector or sensor
0×8E FRMMNGTSC1AE	8E	can receive frame tsc1ae Data volume error	Check the engine connector or sensor

Display	Error code	Description	Solution
0×8F FRMMNGTSC1AR	8F	can receive frame tsc1ar Data volume error	Check the engine connector or sensor
0×90 FRMMNGTSC1DE	90	can receive frame ttsc1de data volume error	Check the engine connector or sensor
0×91 FRMMNGTSC1DR	91	can receive frame tsc1dr Data volume error	Check the engine connector or sensor
0×92 FRMMNGTSC1PE	92	cantotsc1pe data Volume error	Check the engine connector or sensor
0×93 FRMMNGTSC1TE	93	cantotsc1te data Volume error	Check the engine connector or sensor
0×94 FRMMNGTSC1TR	94	cantotsc1tr data Volume error	Check the engine connector or sensor
0×95 FRMMNGTSC1VE	95	cantotsc1ve data Volume error	Check the engine connector or sensor
0×96 FRMMNGTSC1VR	96	Cantotsc1vr data Wrong quantity	Check the engine connector or sensor
0×97 FRMMNGHRVD	97	Can receives frame HRVD Wrong data volume	Check the engine connector or sensor
0×98 FRMMNGDASHDSP	98	CAN receives frame DashDspl data error	Check the engine connector or sensor
0×99 FRMMNGEGF1	99	Can receives frame EGF1 data error.	Check the engine connector or sensor
0×9A FRMMNGCMIDLC	9A	Can receives frame CM1 data error	Check the engine connector or sensor
0×9B FRMMNGDEC1	9B	Can receives frame DEC1 data error	Check the engine connector or sensor
0×9C FRMMNGETC7	9C	Can receives frame etc7 data error	Check the engine connector or sensor
0×9D FRMMNGAPP	9D	Bus to receive throttle signal overrun	Check the engine connector or sensor
0×9E FRMMNGREMAPP	9E	Bus to receive remote throttle signal overrun	Check the engine connector or sensor
0×9F COMGPS	9F	DEC1 message T50 signal Receiving error	Check the engine connector or sensor
0×A0 Gener Fault	A0	Generator Malfunction	Check the generator or generator connectors
0×A1 BATTVLTGERR	A1	High battery voltage	Check the engine connector or sensor
0xA2 ENGOVERHEAT	A2	Overheat of the engine	Check the engine connector or sensor

Display	Error code	Description	Solution
0xA3 WATERTEMPHIGH	A3	Coolant temp too high	Check the connector, sensor and the engine maintenance manual.
0xA4 WATERTEMPLOW	A4	Coolant temp too low	Check the connector, sensor and the engine maintenance manual.
0xA5 BATVOL_HIGH	A5	High voltage of the battery	Check the connector, sensor and the engine maintenance manual.
0xA6 ENGOVERRUN	A6	Engine over the running speed	Check the connector, sensor and the engine maintenance manual.
0xA7 SENVOLT_LOW	A7	Low voltage of the sensor	Check the connector, sensor and the engine maintenance manual.
0xA8 ACTUATORFAULT	A8	Fault of the actuator	Check the connector, sensor and the engine maintenance manual.
0xA9 SPEEDSENFAULT	A9	RPM sensor fault	Check the connector, sensor and the engine maintenance manual.
0xAA ACCELERATOR_HIGH	AA	Accelerator voltage high	Check the connector and the engine maintenance manual.
0xAB ACCELERATOR_LOW	AB	Accelerator voltage low	Check the connector and the engine maintenance manual.
0xAC STARTERROR	AC	Start error	Check the connector and the engine maintenance manual.
0xAD ALTEMATOR_TERMINAL	AD	Alternator failure	Check the connector and the engine maintenance manual.
0xAE CHARGING_FAILURE	AE	Charging failure	Check the connector and the engine maintenance manual.
0xAF CANCOMFAILURE	AF	CAN communication failure	Check the connector and the engine maintenance manual.

Chapter 6 Pre-Operation Check

6.1 No Operation Except Following Cases

You have understood and practiced the principles about safe operation of the machine in this manual.

1) Avoid dangerous situations.
2) Always perform a pre-operation inspection.
3) Check the work place.
4) Always perform a pre-use functional test.
5) Use the machine only for its intended purpose.

6.2 Basic Principles

1) The operator is responsible for checks before operation and routine maintenance.
2) The check before operation is an intuitive check process performed by the operator prior to each shift. The purpose of the check is to find out if there is an obvious problem with the machine before the operator performs a functional test.
3) The check before operation is also used to determine if routine maintenance procedures are required. The operator is only allowed to perform routine maintenance items as specified in this manual.
4) Please refer to the list on the next page and check for changes, damage, loose or missing parts for each item and location.
5) A damaged or modified machine shall not be used. If damages or any unauthorized changes are found, the machine shall be tagged out and not operated.
6) Only qualified repair technicians can repair machines as required by the manufacturer. After repair, the operator must perform check before operation again before performing the functional test.
7) Regular repair and check shall be performed by qualified repair technicians in accordance with the manufacturer's specifications and the requirements listed in the responsibility manual.

6.3 Check Before Operation

1) Ensure the manual is complete, legible and stored in the document box on the platform.
2) Ensure all decals are clear, legible and properly positioned. See the decal section.
3) Check engine oil leakage and oil level appropriateness. See the "Repair" section.
4) Check for hydraulic oil leakage and proper oil level. Fill as needed. See the "Repair" section.
5) Check for engine coolant leakage and proper coolant level. Add coolant as needed. See the "Repair" section.
6) Check for battery leakage and proper electrolyte level. Add distilled water as needed. See the "Repair" section
7) Check the following components or areas for damage, improper installation or missing parts and unauthorized changes:

- Electrical components, harnesses and cables
- Hydraulic hoses, connectors, valve blocks and hydraulic cylinders
- Fuel and hydraulic tanks
- Wear pads
- Tires and wheels
- Engine and related components
- Limit switches, alarms and horns
- Nuts, bolts and other fasteners
- Platform extension components
- Platform entrance door
- Indicators and alarms
- Safety arm
- Pins and fasteners
- Platform control handle
- Outrigger cover and foot pad
- Check the entire machine for:
- Cracks in welds or structural components
- Indentation or damage to the machine
- Ensure that all structural components and

other key components are complete and all relevant fasteners and pins are in the correct position and tightened.

- Ensure that the guardrail has been installed, and guardrail bolts have been properly installed and tightened.

⚠ NOTE: If the platform must be raised to check the machine, ensure the safety arm is in the correct position. See the "Operation Instructions" section.

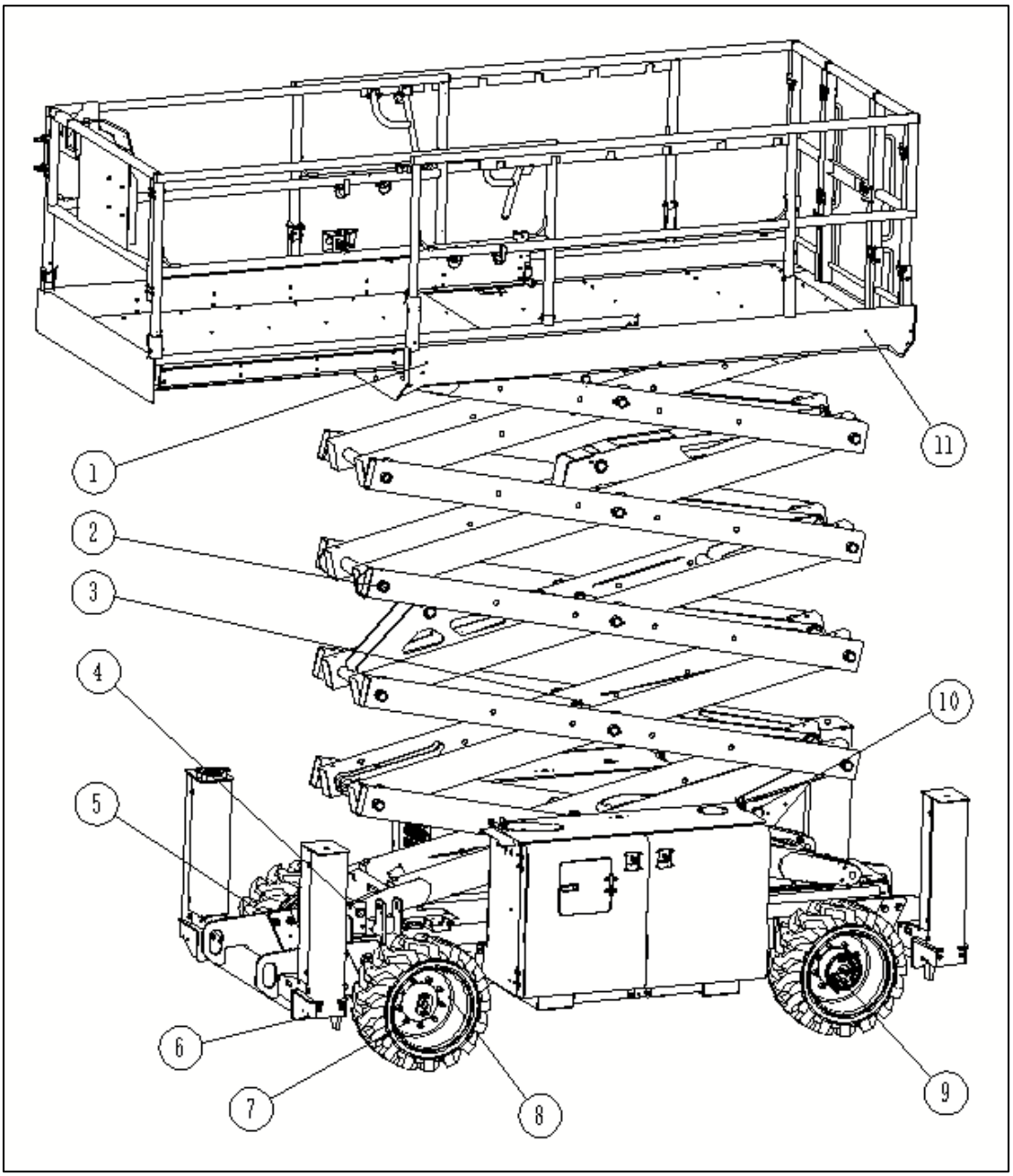
6.4 Machine inspection diagram

Check each structural securement point on the machine in strict accordance with the illustration. Once a loose, broken, rusted or missing bolt or deformed or dislodged pin is found, immediately tag the abnormal location and remove the equipment from service. Never operate the malfunctioning equipment.

In addition to the following check points, comprehensively verify: whether any component is loose, broken, cracked or missing and securement is firm; and whether hydraulic lines are excessively worn, broken or leaky and harnesses are broken or damaged. Be sure each function operates properly.

⚠ Remember to check the bottom side of the machine! Failure to do so could cause safety accidents, resulting in equipment damage and personal injury or death.

SR2669D/SR3369D/SR4069D



1) Extension platform roller support securement: Check the extension platform roller supports for proper securement. Use extreme care to prevent the extension platform fall or overturn due to the roller dislodgement.

2) Scissor pin connection and securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent overturn due to the bolt breakage or pin dislodgement.

3) Lift cylinder manifold securement: Check bolts for proper installation. Use extreme care to prevent the scissor fall due to the bolt breakage.

4) Chassis and scissor securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the scissor fall or overturn due to the bolt breakage or pin dislodgement.

5) Outrigger beam securement: Check nuts for good condition. Use extreme care to prevent the tire dislodgement due to the nut looseness, which will cause outrigger fall or machine tip-over.

6) Outrigger cylinder securement: Check bolts for proper installation. Use extreme care to prevent the cylinder dislodgement or support failure due to the bolt dislodgement, which will cause the machine to tip over.

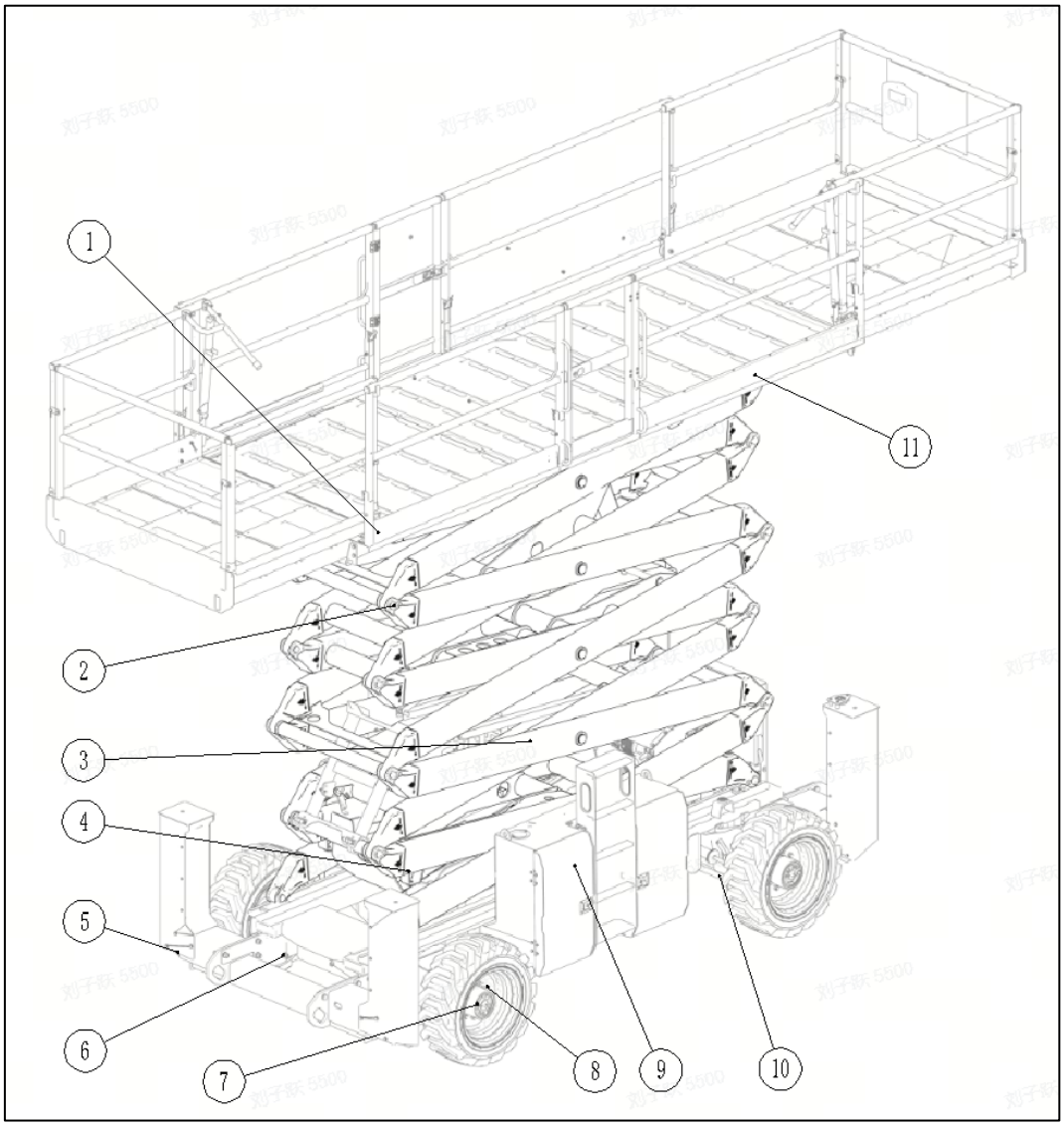
7) Tire securement: Check nuts for good condition. Use extreme care to prevent the tire dislodgement due to the nut looseness, which will cause the machine to tip over.

8) Steering linkage securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent steering failure due to the bolt breakage or pin dislodgement.

9) Wheel drive-tire connection: Check bolts for proper installation. Use extreme care to prevent the wheel drive or tire fall due to the bolt breakage, which will cause the machine to tip over. Lift cylinder securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the cylinder fall due to the bolt breakage or pin dislodgement.

10) Chassis and scissor securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the scissor fall or overturn due to the bolt breakage or pin dislodgement.

11) Platform and scissor securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the platform fall or overturn due to the bolt breakage or pin dislodgement.



1) Extension platform roller support securement: Check the extension platform roller supports for proper securement. Use extreme care to prevent the extension platform fall or overturn due to the roller dislodgement.

2) Scissor pin connection and securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent overturn due to the bolt breakage or pin dislodgement.

3) Lift cylinder manifold securement: Check bolts for proper installation. Use extreme care to prevent the scissor fall due to the bolt breakage.

4) Lift cylinder securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the cylinder fall due to the bolt breakage or pin dislodgement.

5) Outrigger cylinder securement: Check bolts for proper installation. Use extreme care to prevent the cylinder dislodgement or support failure due to the bolt dislodgement, which will cause the machine to tip over.

6) Outrigger beam securement: Check nuts for good condition. Use extreme care to prevent the tire dislodgement due to the nut looseness, which will cause outrigger fall or machine tip-over.

7) Wheel drive-tire connection: Check bolts for proper installation. Use extreme care to prevent the

wheel drive or tire separation due to the bolt breakage, which will cause the machine to tip over.

8) Tire securement: Check nuts for good condition. Use extreme care to prevent the tire dislodgement due to the nut looseness, which will cause the machine to tip over.

9) Chassis and scissor securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the scissor fall or overturn due to the bolt breakage or pin dislodgement.

10) Steering linkage securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent steering failure due to the bolt breakage or pin dislodgement.

11) Platform and scissor securement: Check bolts for good condition and pins for proper installation. Use extreme care to prevent the platform fall or overturn due to the bolt breakage or pin dislodgement.

Chapter 7 Workplace Check

7.1 No Operation Is Allowed Unless

You have known and practiced the rules for safe operation of machine in the Operation Manual.

1) Avoid dangerous situations.
2) Always perform a pre-operation inspection.
3) Check the workplace. You should understand pre-operation inspection before proceeding with the next step.
4) Always perform a pre-use functional test.
5) Use the vehicle only for its intended purpose.

7.2 Basic Principles

1) Workplace inspection will help the operator determine if the workplace is safe for operation of the vehicle. The operator should perform pre-operation inspection before moving the vehicle to the workplace.
2) It is the operator's responsibility to understand and remember the hazards in the workplace and to be aware of and avoid these hazards when moving, installing and operating the vehicle.

7.3 Workplace Inspection

Beware and avoid the following dangerous situations

1) Steep slope or holes
2) Protrusions, ground obstacles or debris
3) Uneven surface
4) Unstable or smooth surface
5) Overhead obstacles and high voltage wires
6) Dangerous location
7) Surface support that is not sufficient to withstand the full load applied by the vehicle
8) Wind and weather conditions
9) Unauthorized personnel
10) Other possible unsafe conditions

Chapter 8 Functional Test

8.1 No Operation Is Allowed Unless

You have understood and practiced the principles about safe operation of the vehicle in this manual.

1) Avoid dangerous situations.
2) Always perform a pre-operation inspection.
3) Check the workplace.
4) Always perform a pre-use functional test.
5) You should understand the functional test and inspection before proceeding with the next step.
6) Use the vehicle only for its intended purpose.

8.2 Basic Principles

1) Functional tests are used to detect faults before operating the vehicle.
2) The operator must follow the steps to test all the functions of the vehicle.
3) Do not use a malfunctioning vehicle. If a fault is found, the vehicle must be marked and stopped.
4) Only qualified authorized service technicians are allowed to maintain the vehicle according to the manufacturer's instructions.
5) After maintenance is completed, the operator must perform the pre-operation inspection and functional test again before operating the vehicle.

8.3 Functional Test

1) Choose a test place that is solid, level and free of obstacles.

8.4 Test on the Ground Control Station

1) Pull the red emergency shutdown button on the platform and ground out to the "On" position.
2) Turn the key switch to the Ground Control Station.

Result: The LCD screen will light up and show SYSTEM READY.

Note: LCD reading display needs to be preheated before display under cold weather conditions.

3) Start the engine.

Emergency Shutdown Test

1) Push the red emergency shutdown button on the ground inwards to the "Off" position.

Result: The engine will be shut down without running any function.

2) Pull the red emergency shutdown button out to the "On" position and restart the engine.

Lifting/Lowering Functions Test

The audible alarm on the machine and the standard horn is from the same alarm. The horn makes a continuous sound. The lowering alarm sounds 60 times per minute. The alarm sounds 180 times per minute when the machine is tilted.

1) Do not press the lowering and lifting start button. Press and hold the platform lifting button.

Result: The platform shall not lift.

2) Press and hold the enabling button with lifting functions. Press and hold the platform lifting button.

Result: The platform shall lift.

3) Press and hold the enabling button with lifting functions. Press and hold the platform lowering button.

Result: The platform shall lower. When the platform lowers, the lowering alarm shall sound.

Emergency Descent Function Test

1) Press and hold enabling button with lifting functions while raising the platform by about 0.6m/1.97ft.
2) Push the red emergency shutdown button on the ground inwards to the off position and turn off the engine.
3) Pull the red emergency shutdown button out to the on position.
4) Press and hold the emergency descent button. Press and hold the platform

lowering button.

Result: The platform shall lower.

5) Turn the key switch to the Platform Control Station and restart the engine.

8.5 Platform Control Station Test

Emergency Shutdown Test

1) Push the red emergency shutdown button on the platform to the "Off" position.

Result: The engine shall be turned off and all functions shall be disabled.

2) Pull the red emergency shutdown button out to the "On" position.

Result: The indicator will be light.

Horn Test

1) Press the horn button.

2) Result: The horn will sound.

Lifting/Lowering Functions and Function Enabling Test

1) Start the engine.

2) Press the enable switch and push the lifting/lowering control handle backward.

Result: The platform shall not lift.

3) Press the enabling button with lifting functions.

4) Press the enable switch and push the lifting/lowering control handle backward.

Result: The platform shall lift.

5) Press the enabling button with lifting functions.

6) Press the enable switch and push the lifting/lowering control handle forward.

Result: The platform shall lower. When the platform lowers, the lowering alarm shall sound.

Steering Test

⚠ NOTICE: When performing steering and driving function tests, stand in the middle of the platform and face the steering end of the machine.

1) Press the driving function button.

2) Press and hold the enabling switch on the control handle.

3) Press the thumb rocker switch at the top of the control handle in the direction indicated by the blue triangle on the control panel.

Result: The steering wheels shall turn in the direction indicated by the blue triangle on the control panel.

4) Press the thumb rocker switch in the direction indicated by the yellow triangle on the control panel.

Result: The steering wheel shall turn in the direction indicated by the yellow triangle on the control panel.

Drive and Brake Functions Test

1) Press the driving function button.

2) Press and hold the enabling switch on the control handle.

3) Move the control handle slowly until the machine starts to move in the direction indicated by the blue arrow on the control panel and return the handle to the center position.

Result: The machine shall move in the direction indicated by the blue arrow on the control panel and then stop suddenly.

4) Press and hold the enabling switch on the control handle.

5) Move the control handle slowly until the machine starts to move in the direction indicated by the yellow arrow on the control panel and return the handle to the center position.

Result: The machine shall move in the direction indicated by the yellow arrow on the control panel and then stop suddenly.

⚠ NOTICE: On any slope the machine can climb, the brakes must be able to hold the machine stationary.

Reduced Driving Speed Test

1) Raise the platform.

2) Press and hold the enabling switch on the control handle.

3) Slowly move the control handle up to the full driving position.

Result: When the platform is raised, the maximum driving speed of SR3390D/SR4390D /SR5390D shall not exceed 1.1Km/h/0.628mph.

When the platform is raised, the maximum driving speed of SR2669D/SR3369D/SR4069D shall not exceed 0.5Km/h/0.28mph.

If the maximum driving speed of SR3390D/SR4390D/SR5390D exceeds 1.1Km/h/0.628mph mph when the platform is raised, please tag out the machine immediately and stop operating it.

If the maximum driving speed of S SR2669D/SR3369D/SR4069D exceeds 0.5Km/h/0.28mph mph when the platform is raised, please tag out the machine immediately and stop operating it.

8.6 Tilt Sensor Operation Test

NOTICE: The test is performed from the ground with a remote Platform Control Station. Do not stand inside the platform.

1) Lower the platform completely.

2) Drive two wheels on one side to an obstacle or curb with height of 0.18m/0.59ft.

3) Raise the platform to a height which is about 3.6m/11.81ft off of the ground.

Result: The platform is stopped and the tilt alarm sounds 180 times per minute. The indicator of enabling button of lifting function will be in red.

4) Move the drive control handle in the direction indicated by the blue arrow, and move it to the direction indicated by the yellow arrow.

Result: The drive function shall not work in either direction.

5) Lower the platform and drive the machine away from the obstacle.

8.7 Upper Limit Switch and Outriggers (If Equipped) Test

1) Raise the platform.

Result: The platform of SR5390D shall be raised to 8.5m/27.9ft and then stopped.

The platform of SR5390D shall not be raised more than 8.5m/27.9ft unless the outriggers have been extended.

2) Lower the platform.

3) Press and hold the automatic leveling button.

4) Move the control handle to the backward direction.

Result: The outrigger shall be deployed to level the machine. When the machine is level, the alarm will sound.

5) Raise the platform.

Result: The platform shall be raised to the highest point.

6) Lower the platform.

Chapter 9 Operation Instructions

9.1 No Operation Is Allowed Unless

You have understood and practiced the principles about safe operation of the vehicle in this manual.

1) Avoid dangerous situations.
2) Always perform a pre-operation inspection.
3) Check the workplace.
4) Always perform a pre-use functional test.
5) Use the vehicle only for its intended purpose.

9.2 Basic Principles

1) The machine is a rough terrain hydraulic lift equipped with work platform on a scissors mechanism. Vibration produced by the operation of machine has no danger to the operator on the work platform. The machine can carry staff and portable tools to the place in a certain height from the ground, or to the working area on the machine or equipment.
2) The Operating Instructions section provides specific instructions for all aspects of vehicle operation. It is the operator's responsibility to follow all safety rules and instructions in this manual.
3) This machine is designed for lifting workers and tools to the overhead workplace, it is unsafe or even dangerous to use the vehicle for other purposes.

⚠ NOTICE: This machine is strictly prohibited from carrying loads.

4) Only trained and authorized personnel can operate the vehicle. If more than one operator uses the same vehicle at different times during the same work shift, they must be qualified operators and follow all safety rules and instructions in the Operation and Maintenance Manual. This means that every new operator should perform pre-operation inspections, functional tests and workplace inspections before operating the machine.

9.3 Emergency Stop

1) On the Ground Control Station or Platform Control Station, push the red emergency stop button to "Off" position to close all functions and shut down the engine.
2) If there is any functions operating after pushing the red emergency shutdown button, repair the function.
3) After stopping the engine with the emergency shutdown button, please pull out the button to ensure that the power is connected.

9.4 Engine Startup

1) On the Ground Control Station, turn the key switch to the needed position.
2) Make sure that the ground and platform red emergency stop buttons are pulled out to "On" position.

Gasoline/LPG models

1) Select LPG by pushing the LPG button.
2) Press the engine start button.

⚠ NOTE: In cold conditions, -6°C and below the machine should be started on gasoline and warmed for 2 minutes, then switched to LPG. Warm engines can be started on LPG.

Diesel models

1) Models with manual preheating function:

   Before starting the engine at 10℃ and lower temperatures, press and hold the glow plug for 5 to 10 seconds. The continuous use of the glow plug is limited to 20 seconds.
2) Models with automatic preheating function: The engine can be automatically preheated at low temperatures when the whole vehicle is powered on.

   Note: The glow plug button function is optional and only applies to vehicles equipped with the D1105 EF02 engine, the rest of the vehicles are automatically preheated.
3) If the primary preheating cannot meet the

requirements, press the emergency stop switch and then pull it out, and then perform the preheating operation again.

4) Press the engine startup button.

All models

If the primary startup time is no more than 5 - 10 seconds (continuous working time of starter motor shall be no more than 15 seconds), and if it fails to be started and needs to be started again, the interval shall be more than 1 minute. If it fails to be started for three times, identify the reason and repair the fault. Wait for 60 seconds before attempting to start it again.

Before operation, the engine shall be idled for 5 minutes to ensure it sufficiently lubricated in case of hydraulic system damage.

At extremely low temperatures of -18℃ and lower, the machine must be equipped with a low-temperature starter kit option. If the engine is started at the temperature lower than -18℃, it may need to use a booster battery.

9.5 Operation from Ground

1) Turn the key switch to the Ground Control Station.
2) The ground and platform red emergency stop buttons are pulled out to "On" position.
3) Start the engine.

Adjustment of Platform Position

1) Press and hold the enabling button for lifting functions.
2) Press and hold the lifting or lowering button.
3) The drive and turning function cannot be operated from the Ground Control Station.

Idling Selection of Engine

Press the idling selection button to select the engine idling (rpm). Provide two idling settings of engine.

The indicator is off: Low idling.

The indicator is on: High idling.

9.6 Operation from Platform

1) Turn the key switch to the Platform Control Station.
2) The ground and platform red emergency stop buttons are pulled out to "On" position.
3) Start the engine.

Adjustment of Platform Position

1) Press the enabling button of lifting function.
2) Press the enable switch and push the lifting/lowering control handle in needed direction. The platform will raise when the control handle is moved to the backward, or lower when the control handle is moved to the forward.

Steering

1) Press the driving function button.
2) Press and hold the enabling switch on the control handle.
3) Turn the steering wheels using the thumb rocker switch on the top of control handle.

Drive

1) Press the driving function button.
2) Press and hold the enabling switch on the control handle.
3) Acceleration: Move the control handle slowly away from the center position.
4) Deceleration: Move the control handle slowly toward the center position.
5) Stop: Return the control handle to the center position or release the function enabling switch.
6) Use the direction arrow on the Platform Control Station and platform to verify the direction the machine is to be moved.
7) The machine drive speed is limited when the platform is elevated.

Drive Selection Switch

Symbols of machine on the slope: Please operate it within low speed scope when it is tilted.

The Indicator is in Red

If the indicator is in red, please press and pull out the red emergency stop button to reset the system.

If the lamp is still red, tag out the machine and stop operating it.

9.7 Drive on Slope

Determine rated value and grade of slope and side slope of the machine. The rated value of slope is applicable to the folding machine.

SR2669D(With outrigger)/SR3369D/SR4069D:

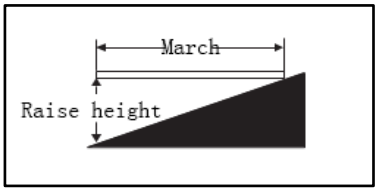
 Maximum rated value of slope in folding position.	35% (19.3 °)
 Maximum rated value of side slope in folding state.	35% (19.3 °)

SR2669D(Without outrigger)/SR3390D/ SR4390D/SR5390D:

 Maximum rated value of slope in folding position.	40% (22 °)
 Maximum rated value of side slope in folding state.	40% (22 °)

NOTICE: Rated value of slope is limited by the ground conditions and traction.

1) Determination of grade: Measure the slope with a digital inclinometer or follow the steps below.
2) Tools required: Carpenter's ruler, straight block with a length of at least 1m/3.28ft, tape measure.
3) Place the block on the slope.
   Place the carpentry's ruler on the upper edge of the block at the end of the downhill slope and raise the end of the block until it is level.
   Keep the block level and measure the vertical distance from the bottom of the block to the ground.
   Divide the tape measure distance (the raised height) by the block length (travel) and multiply by 100.
   Example:
   Wood block = 11.8ft
   Travel = 11.8ft
   Raised height = 0.98ft
   0.98/11.8==8.3 % rating



4) If the slope exceeds the maximum uphill, downhill or side slope rating, the vehicle must be lifted or transported up and down the slope. See the Transportation and Lifting section for further instructions on transporting the machine.

9.8 Platform Extension and Retraction

1) Raise the extension lock handle of the platform to the upper limit position (about 80 °) of handle.
2) Push the extension lock handle of the platform to extend the platform to the required position.
3) Do not stand on the extension platform when extending the platform.
4) Press the extension lock handle of the platform to make the upper and lower truss plate engage with each other, to lock the extension platform.

9.9 Emergency Descent

1) When unable to lower the platform normally due to a fault, enable the emergency descending function. Simultaneously press the auxiliary function enabling button and the auxiliary descent button to lower the platform.

9.10 Using Platform Control Station to Operate on the Ground

1) Maintain a safe distance among operator, machine and stationary objects.
2) Pay attention to the forward direction of machine when using the control station.

9.11 Outrigger Operation

1) Put the machine in an accepted operation area.

Notice: The engine must be running to operate the outriggers.

2) Press and hold the automatic leveling button.
3) Press the enable switch and push the lifting/lowering control handle in the direction of yellow arrow. Outriggers will be extended to level the machine. The machine will give a warning tone when it is level.
4) If only one outrigger is extend, the indicator for the enabling button of lifting function will be in red. All drive and lifting functions are forbidden.
5) When all outriggers contact the ground securely, the indicators of the enabling buttons for the lifting functions and the single outrigger button will be in green.
6) The drive function is forbidden when the outrigger is extended.

Control of Single Outrigger

1) Press and hold one or more outrigger buttons.
2) Press the enable switch and push the lifting/lowering control handle for the outrigger to level the machine according to the desired direction.

9.12 Safety Arm Use

1) Raise the platform to a height which is about 3.2m/10.5ft away off of the ground.
2) Lift the safety arm and move it to the middle of scissors axle sleeve, rotate it upward until it is vertical.
3) Lower the platform height until the safety arm contacts the axle sleeve completely.

9.13 Auxiliary Descent (If Equipped)

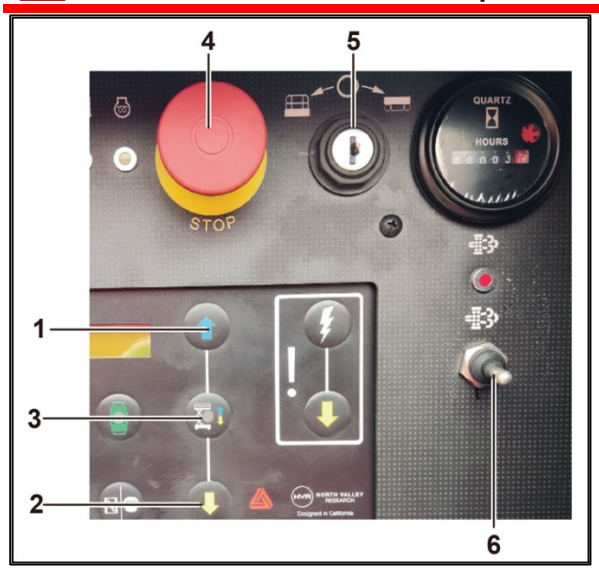
When unable to lower the platform normally due to a fault, pull the cable assembly that is located at the rear of the machine outward.
Result: The platform will lower.

9.14 Fall Protection

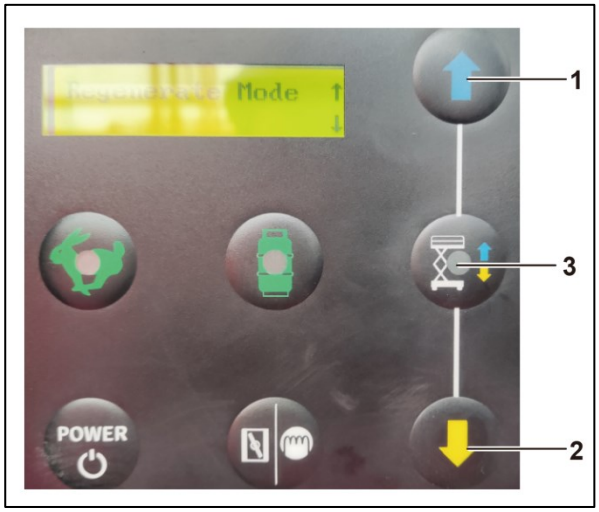
1) Personal falling protection equipment (PFPE) is not required during machine operation. If PFPE is required in the workplace or user rules, obey the following regulations.
2) All PFPEs must comply with corresponding government regulations and must be subject to check and use in accordance with the manufacturer's instructions.

9.15 DPF Regeneration (If Equipped)

DPF is a closed system for filtering soot particulate emissions.
Automatic regeneration: the vehicle will automatically enable regeneration function during operation.
Manual regeneration: when the DPF alarm indicator of the lower control box is on, and the vehicle has no engine /system failure & alarm, the machine can be manually regenerated at the stowed state.
Park the machine in a safe and reliable position. Before performing the manual regeneration operation, run the engine at idle speed for several minutes to ensure that the engine water temperature has exceeded 50℃.
Operation Instruction:



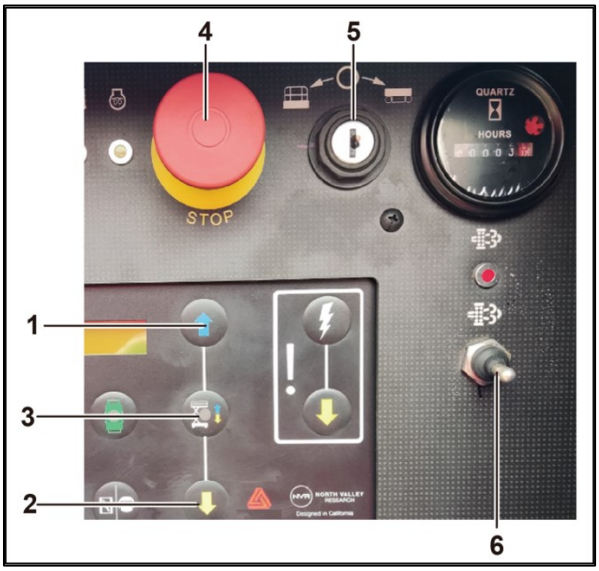
1. Shut down the machine, pull the emergency stop button (4) to the “ON” position, press and hold the button (1) and (2) at the same time, then turn the key button (5) to the right to operation position of ground control.



2. Press the button (1) or (2), set to ”Regenerate Mode”, then press OK button (3).



3. Operate machine with the prompts:
1) Start the engine.
2) Press the OK button (3).



4. When the regenerating condition was allowed, then push the regenerate button (6).



5. Start the “Regenerate Mode”.

⚠ NOTICE：During manual DPF regeneration, the exhaust gas becomes hotter than usual and its quantity increases. Check to see if there is nothing flammable around and the place is well ventilated.

⚠ NOTICE: On DPF-equipped engines, part of the fuel may get mixed

with engine oil during the regenerating process. This may dilute the oil and increase its quantity. If the oil rises above the oil level gauge upper limit, it means the oil has been diluted too much, resulting in a trouble. In such case, immediately change the oil for new one.

If the interval of DPF regeneration becomes 5 hours or less, be sure to change the oil for new one.

Note: Be sure to inspect the engine, locating it on a level place. If placed on gradients accurately, oil quantity may not be measured.

⚠ NOTICE:

If the manual regeneration request is ignored, the soot in the DPF can reach extreme levels. The filter will be permanently damaged and will have to be replaced by a qualified service technician.

⚠ NOTICE:

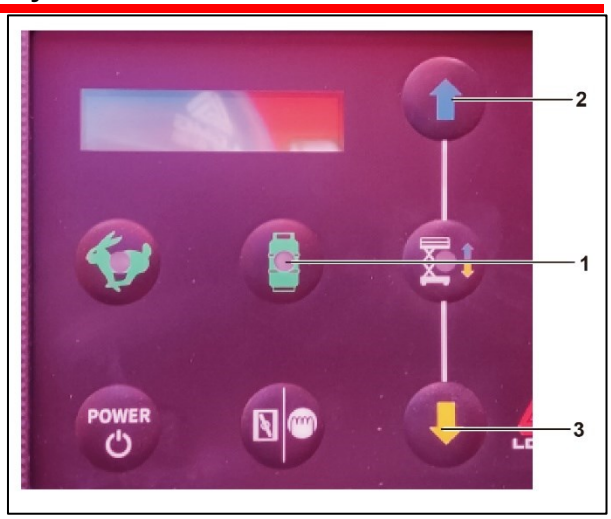
If the machine have DPF cleaning alarm system.

- **Clean the DPF in case of an alarm or every 6000 DPF operating hours whichever comes earlier.**
- **DPF cleaning interval is depending on engine operating conditions.**

If the machine does not have DPF cleaning alarm system, clean the DPF every 3000 operating hours.

Monitor menu

Enter the monitoring menu:



1. Turn the key switch to the Ground Control Station.
2. The ground and platform red emergency stop buttons are pulled out to "On" position.
3. Press and hold the button (1).
4. Press the button (2) or (3) to move the menu up or down.

Enter the monitoring menu to view the status of the machine.

For example:

DPF soot rate and level:



9.16 Low Temperature Start Kit (If Equipped)

⚠ Risk of scalding: It is prohibited to touch the heated heaters.

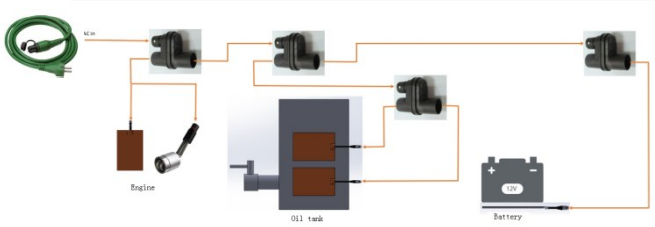
⚠ Risk of fire: It is prohibited to place inflammables and explosives around the heaters.

Risk of electric shock: It is prohibited to wash the heaters directly with water. It is only allowed to connect the heater power line to a grounded AC three-wire outlet with a leakage protector.

The low temperature start kit is prohibited to use, when the ambient temperature is above 0℃.

The low temperature start kit aims to start the machine normally and have it run smoothly at low temperature through heating of related devices by the externally powered heaters installed on the engine, battery and hydraulic oil tank.

Connection example:



Recommended heating duration:

Model	Ambient temperature above -20℃	Ambient temperature below -20℃
SR69D	＜2 hours	2h＜ heating duration ＜4h
SR90D	＜2 hours	2h＜ heating time ＜4h

9.17 After Each Use

1) Select a safe parking position, which must be solid horizontal ground without an obstacle and avoid places with busy transportation.
2) Lower the platform.
3) Turn the key switch to the "Off" position and remove the key to avoid unauthorized use.
4) Lock the wheels.

9.18 Engine starting battery maintenance requirements (extended storage)

1) Turn the key switch to the off position.
2) Turn off the battery disconnect switch.
3) Fully charge the battery before storage.
4) Perform periodic inspection and maintenance.

- **Periodic inspection intervals:**

Battery capacity	Charging interval
80Ah	30 days
120Ah	45 days
120Ah*2	45 days
180Ah	45 days

- **Charging requirements:**

Prior to extended storage, always fully charge the engine starting battery or run the engine for more than 30min continuously at the required charging interval.

- **Method of checking SoC:**

With the engine in operation, use a clamp meter to test the battery positive terminal (or negative terminal) and measure current. If the battery current is below 0.5A for more than 10s, SoC is considered 100%. If not, run the engine to charge the battery until the above full SoC requirement is met.

Chapter 10 Transportation and Lifting Instructions

10.1 Compliance

1) When the machine is lifted by a crane or forklift, keep normal judgment and planning to control the movement of machine.
2) Only personnel with high-altitude lifting qualifications can load and unload the machine.
3) The transport vehicle must be parked on a level surface.
4) When loading the vehicle, the transport vehicle must be fixed to prevent movement.
5) Make sure the transport vehicle's capacity, loading surface, chains or belts are sufficient to withstand the weight of the vehicle. Refer to the nameplate for the weight of the vehicle.
6) Before releasing the brakes, the machine must be on level ground or have been secured in place.
7) Do not drive the vehicle on a slope that exceeds the vehicle's uphill, downhill or slope rating. Refer to “Drive on the Slope” in the “Operation Instructions” section.
8) If the slope of the transport vehicle exceeds the maximum slope rating, the winch must be used to load and unload the vehicle as specified.
9) Prevent the plug from falling from the guardrail when it is taken off. Grasp the guardrail firmly when folding it.

10.2 Freewheel Configuration for Trailers

1) Wedge the wheel to prevent the vehicle from moving.

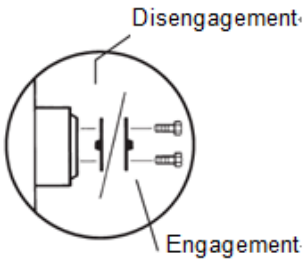


Fig10-1 Brake release

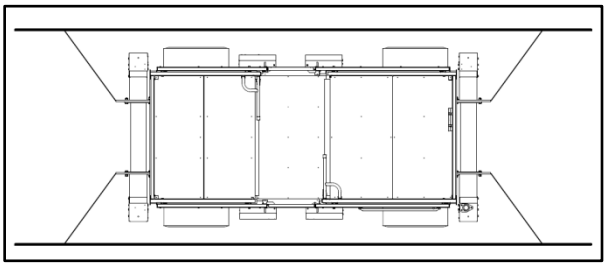
2) Turn over all driving wheel hub separating covers to release wheel brakes, as shown in Fig10-1.
3) Make sure that the winch cable is properly secured to the fastening point of the drive chassis and that there are no obstacles in the moving direction.
4) Reverse the above procedures to reengage the brakes.

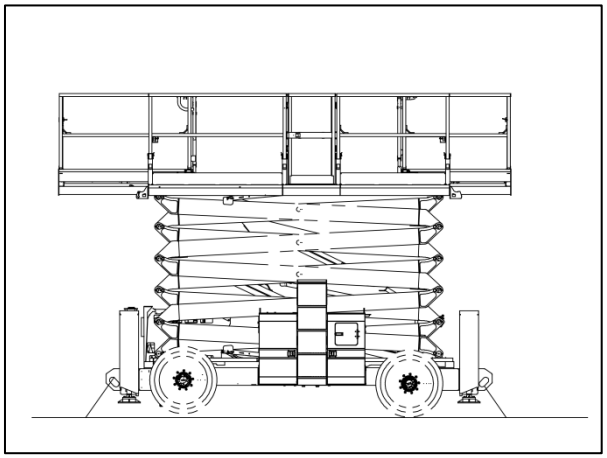
10.3 Securing on Trucks or Trailers During Transportation

1) Always lock the wheels of the platform when preparing for transportation.
2) Secure the machine on the transport surface using the fastening positions on the chassis.
3) Use at least 4 chains or belts. Ensure each chain or belt has sufficient load strength.
4) Turn the key switch to the "Off" position and remove the key before transportation.

10.4 Ensuring Transportation Safety

1) Always lock the platform wheels when preparing for transportation.





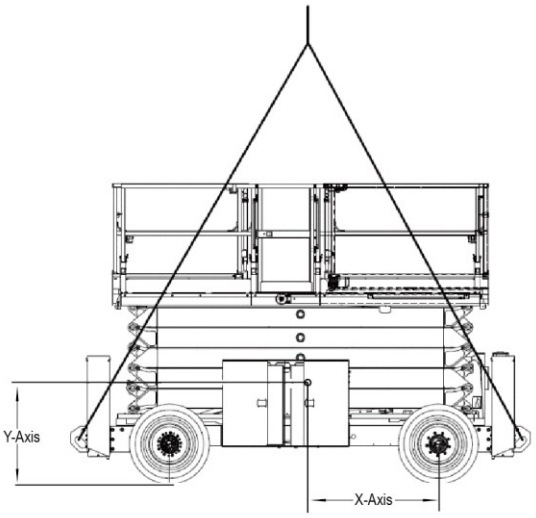
2) Retract and secure the extension platform.
3) Before transportation, turn the key switch to the "Off" position and remove the key.
4) Thoroughly check the machine for any loose or unsecured components.
5) Secure the machine on the transport surface using the fastening positions on the chassis.
6) Use at least 4 chains or belts.
7) Ensure each chain or belt used has sufficient load strength.
8) If the railing has been folded, use a belt to secure it before transportation.

Compliance

1) Only qualified rigging personnel are allowed to assemble slings and lift the platform.
2) Make sure that the crane's lifting capacity, loading surface, belt or rope is sufficient to withstand the weight of the vehicle. Refer to the decal and nameplate for the weight of the vehicle.

10.5 Lifting Guidance

1) Lower the platform completely. Ensure that the extension platform, control unit and chassis tray are safely and reliably secured. Remove all loose components from the platform.
2) Only connect the lifting sling to the specified lifting point of the platform.
3) Adjust the lifting sling to avoid damaging the platform and keep the platform to be horizontal.



Model	X-axis(mm/in)	Y-axis(mm/in)
SR2669D	1207/47.5	830/32.7
SR3369D	1210/47.6	843/33.2
SR4069D	1294/51	790/31.1
SR3390D	1385/54.5	1045/41.1
SR4390D	1385/54.5	1061/41.8
SR5390D	1385/54.5	1073/42.2