

AA35MRS

## 3.5t Low Profile Mid Rise Scissor Lift

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#### **DESCRIPTION**

The AA35MRS 3.5t low profile mid rise scissor lift has been engineered for quick maintenance, fast repair work and workshops with small spaces. Manufactured with a hydraulic pressure presetting function which avoids raising a vehicle that exceeds the rated capacity of 3,500kg, the AA35MRS has a maximum lifting height of 950mm with a minimum lifting height of 105mm. Featuring an advanced durable and space saving compact design. The AA35MRS low profile mid rise scissor lift has a hydraulic system that keeps both platforms level. The AA35MRS is a functional, reliable and profit generating addition to any busy automotive workshop. And for greater flexibility, the AA35MRS 3.5t low profile mid rise scissor lift is equipped with a 240V single phase motor, an automatic lubricating system and oil-less bearings.

#### **SPECIFICATIONS**

Lifting capacity	3,500kg
Maximum lifting height	950mm
Minimum lifting height	105mm. Note: At the bottom position, the maximum load is 1t
Raising/lowering speeds	Up: ≤40sec - Down: ≥20sec
Platform size	1485 x 2035 x 660mm
Hydraulic Max. Pressure	28MPa, flow rate: 4.5L/min
Pneumatic pressure	5 kgf/cm <sup>2</sup>

#### 1.1 Application

The AA35MRS 3.5t low profile mid rise scissor lift has been designed and engineered specifically to lift light vehicles under 3.5 tonnes for vehicle testing, servicing and cleaning.

#### 1.2 Features

- · Advanced, durable and compact space saving design
- · Surface installation
- · Hydraulic system keeps both platforms level
- · Mechanical protection device
- · Automatic lubricating system and oil-less bearings

#### **Electric Specifications**

Motor (Optional): 2.2kw

Voltage options according to different voltage Single-phase/3-phase 220V/380V 50Hz

Noise: ≤70dB (A)

**Hvdraulic System** 

Max. Working Pressure: 28 MPa,

flow rate: ≥4.5L/min

Pneumatic System

Working Pressure: 5 kgf/cm²





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#### 1.4 Environment Requirements

Temperature: 0°C ~ +40°C
Relative Humidity: ≤80% at 30°C

Transportation/Storage Temperature: -25°C ~ +55°C

Altitude: ≤2000m (78740")

#### Note:

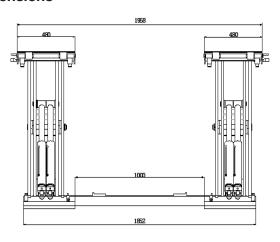
- **1.** Drive on height Stroke are: 105mm-1930mm
- 2. Overall length is 2105mm

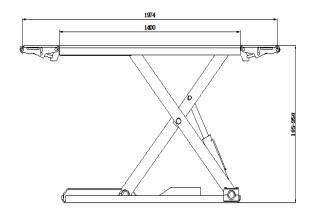




#### 2.1 Dimensions

2. STRUCTURE

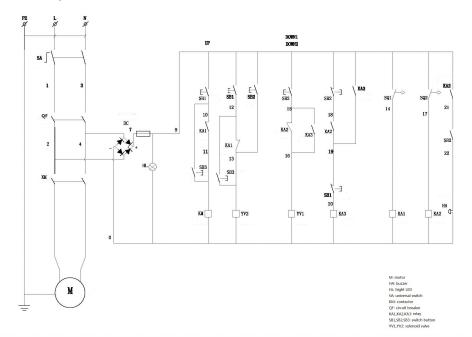




#### 2.2 Electrical Diagram

Lifting: Press the up button SB1, the motor will drive the gear pump to provide the oil. Then the cylinder will push the lift up. Loosen the button SB1, the lift will stop rising. If you continue to press and hold the SB1 button, the lift will rise to the maximum height of 1945mm.

The lift is protected from use by the limit switch or lowering valve. Insurance procedure: Press the insurance button SB3, the solenoid valve combined with the lines YV1 and YV2, the lift will begin to go down. Lowering procedure: Press the up button SB1, the lift will rise, then press the down button SB2, solenoid valve combine the lines YV1 and YV2, the lift begins to go down.



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#### 3. INSTALLATION

#### 3.1. Overall Layout

- · Machine supply status for the whole package, that is, electric control box, oil pipe and platform are connected and adjusted well
- · Open the package, remove the packing material to check the lift for any damage during the transportation
- · Keep packing material away from children to prevent injury. Properly dispose of the packing material
- · Inspect for any possible hindrance such as low ceiling, overhead pipelines in the work area, passageways and escapes
- The working area of the lift should be at least 4.2m high
- Allow enough space (1.5m) at the front for the electrics
- · Power supply should be prepared before installation by a certified electrician
- · The control unit should be installed at the right side of the lift
- The installation must be performed by qualified professionals

#### 3.2 Control Desk Installation

- Place the control desk in place according to the ground layout.(Fic.6)
- · Use a cover plate to protect the wires if there is no wire channel on the concrete floor
- Fill hydraulic oil tank with oil (using oil dipstick to check the level).
- · Pay special attention to avoid adding dust and contaminants to the oil

#### 3.2 Connecting Power

- Open the control desk, connect the wires according to the electrical diagram. Check the connection, switch on the power. Turn on the power supply switch which is on the panel of control desk. The indiction light will turn on.
- Power switch is needed, and installed near control desk. Cut the power when maintenance or emergency. Any damage caused by incorrect wiring and connection is not covered by warranty.
- Make sure the oil level is above the standard level. DO NOT operate the lift if oil tank is empty
- Fix all the oil hoses and press UP button, test the electrical parts: if motor does not operate, has an abnormal sound, platform does not rise, motor is hot, STOP operating immediately and check the wire connection





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#### 4. TEST

#### 4.1 Preparation Before test

- 1. The lift can only be installed on a concrete floor, the minimum thickness of the concrete slab is 200mm and the minimum curing time is 7 days
- 2. The strength of the concrete should exceed 3000psi (2.1kgf/mm 2g)
- 3. The tolerance of the concrete floor levelness should not exceed 5mm (0.2")

  A slight slope can be corrected with shims. An excessive slope on the ground will greatly affect the performance of the lift If this is the case, then a new concrete slab may be required
- 4. Inspect the site for any possible hazards such as a low ceiling, overhead pipelines in the work area, passageways and exits
- 5. The working area of the lift should be at least 4.2m (165.4") high
- 6. Allow enough space (1.5m / 59") at the front of the control unit console
- 7. Power supply should be prepared before installation
- 8. All electrical wiring should be installed by a certified electrician
- 9. The control unit should be installed at the right side of lift
- 10. The installation must be performed by qualified people only

#### 4.2 Test Step

- · Check if all the connection bolts are tightly fastened
- Press the UP button, the platforms rise; release the UP button, the platforms stop rising Press the DOWN button, the platforms descend
- If there is air in the hydraulic system due to new installation, air bleeding needed
   The air in the main & sub oil cylinder can be discharged through repeated rising and lowering
   When see the transparent hose continuously return oil, hydraulic levelling, so that the platform to reach the same height

#### **ATTENTION**

Attention should be paid to the position of oil pipes and hydraulic hose when the platforms return to the minimal height for the first time to avoid damage.

#### 5. SAFETY RULES FOR ELECTRICAL CONTROL SYSTEMS

- Only personnel who are properly trained and have adequate knowledge and skill should undertake all electrical/electronic troubleshooting and repairs
- · Do not alter or bypass protective interlocks
- · Before starting, read and observe all warning labels
- · When trouble shooting make sure the power source has been disconnected and that the main switch has been locked
- · Take extra precautions in damp areas to protect you from accidental grounding
- · Before applying power to any equipment it must be established, without a doubt, that all persons are clear
- · Do not open the electrical control panel unless it is necessary to check the electrical equipment
- Do not alter the electrical circuits unless authorised to do so by the manufacturer
- · When replacing electrical components, make sure they conform to the manufacturer's specifications, including proper colour coding
- Do not wear metal frame glasses, metallic necklaces or chains while working on any electrical equipment Also do not wear any rings, watches or bracelets while operating electrical equipment





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#### 6. OPERATION

#### 6.1 Operation Panel

- · Lifting process: Press the UP button, the left & right platforms will rise
- · Release the button, the platforms will stop rising
- · Continue to press the button, the platforms will rise to the limited height then stop
- · Lowering process: Press the DOWN button, the platforms begin to lower

#### **6.2 Preparatory Instructions**

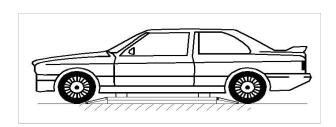
- Check for the synchronised and steady movement of the platforms
- · Make sure the platforms would automatically stop when they reach the max lifting height
- · Check also that the two platforms move up and down consistently and smoothly
- Check for possible leakage in the cylinder, hoses and fittings, check for possible air leakage in the solenoid valve, cylinder, pressure regulator valve and fittings
- · Check for any abnormal action and sound in the pump and motor

#### 6.3 Operational Procedures

- · Keep speed below 5kph when driving onto the platforms
- · Stop the vehicle when the platforms are between its front and rear wheels
- Press the UP button to lift the vehicle to 200mm ~ 300mm from the floor
- · Make sure that the two platforms are levelled and nothing unusual is found
- · Keep pressing the UP button until the vehicle rises to the required height
- · After the maintenance is done, keep the work area clear and safe before lowering the lift

#### 6.4 Safety Procedures

- The hydraulic relief valves are well-adjusted before leaving the manufacturer
- The manufacturer will not be responsible for any damage caused by unauthorised adjustment
- Operation and maintenance personnel are not allowed to enter the unsafe working area (such as machine and vehicle) when lifting the vehicle
- Ensure the correct position of the vehicle on the platform
- · Ensure that the allowable weight, maximum height and length range are not exceeded
- · Personnel must not be on the platform when lifting
- The lift should be insured before personnel work on or under the car
- · Place rubber pads on the platforms and spread them for maximal support
- In case of any leakage in the hydraulic system, fix the problem and refill the oil to the proper level
- In descent the lift will automatically stop once at a distance of approximately 450mm from the floor
- · This action is not a fault
- · Keep the lift area clean and clear to avoid accidents or damage



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#### 6. OPERATION

#### Avoid The Risk Of Falling Off

- · The area under the platforms must be clean and free of oil spills to avoid accidents
- During up and down operations, personnel are prohibited from entering onto the platforms or the vehicle to avoid falling off
- Hazards may arise in the case of incorrect positioning of the vehicle on the platforms, if the vehicle is over weight, or if the vehicle is too wide for the platforms making it incompatible with the capacity of the lift
- · When the platform is being tested, the vehicle engine must be turned off
- · Remove all tools or items fromß the lift-lowering area and the movable parts of the lift

#### **Avoid The Risk Of Electric Shock**

- · Be aware of the risk of electric shock in the insulated areas of the equipment
- Do not use jets of water, steam, solvents or paint next to the lift and take special care to keep such substances clear of the electrical control panel

#### **Risks Related To Inappropriate Lighting**

- The operator and the maintenance fitter must be able to assure that all the areas of the lift are lit correctly. Lack of light can cause the operator to not see objects that can cause accidents or worse.
- During up and down operations, the operator should continually observe the lift and can only operate the lift from the correct operating position. When lifting and lowering the vehicle, the cushion needs to be at the bottom of chassis
- The handling of safety devices is strictly forbidden. Never exceed the maximum carrying capacity of the lift, make sure the vehicles to be lifted have no load

#### 7. TROUBLE SHOOTING

TROUBLE	PROBABLE CAUSE	SOLUTIONS
The motor does not work	Check the molten core is burnt Voltage is not correct Fuse has blown Motor is broken	Reset molten core Supply power of correct voltage Change fuse Change motor
The motor works, but the platforms do not move	The motor is rotating in the wrong direction Oil level is too low Oil leak	Change the wiring of motor to change the rotation direction Add oil Check the oil hose
The motor works, but the platforms can not lift the vehicle	The voltage to the motor is too low Pressure of the relief valve is not right The lift is overloaded The hydraulic pump is damaged	Supply motor with correct voltage Adjust the pressure of relief valve Check the weight of the vehicle Replace the hydraulic pump
Lowering speed is slow	There is a foreign substance in the lowering solenoid valve Lowering speed valve is turned too low	Clean the lowering solenoid valve  Turn the lowering speed valve up
Lifting speed is slow or oil spill	Oil and air are mixed	Change oil or bleed air
The platforms are not synchronised	One cylinder has much more oil than another.	Adjust the oil in both cylinders according to manual







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#### 8. MAINTENANCE

#### 8.1 Daily Maintenance

- · Keep the lift clean. Make sure power is cut off before cleaning the lift
- · Keep the working area clean. Excessive dust in the work area will shorten the life span of the lift
- Before operating, inspect and keep all the safety devices of the lift in order. If any problems are found, adjust, maintain or replace the parts immediately
- · Make sure that the pits are kept dry and clean
- · Inspect if there is leakage in the air valve and if it is well-lubricated

#### 8.2 Monthly Maintenance

- Check and tighten the anchor bolts
- Check all the hoses and fittings for possible wear or leakage. If any leaks are found to be caused by worn seals, replace with genuine parts that meet the correct specifications and standards
- · Check if the moving parts are well-lubricated with high-quality #2 lithium lubricant
- · Apply #2 lithium lubricant on a monthly basis

#### 8.3 Biannual Maintenance

- · Check all the moving parts for possible wear, interference and damage
- · Inspect the lubrication of all the rollers. If the roller is dragged along in lifting or lowering, apply lubricant to the roller shaft
- · At the end of the first six months, clean the hydraulic system and replace the hydraulic oil.

#### 8.4 Maintenance for 3 Years or 5000 Times Operations

- · Replace the bushings on all joints
- · Replace all seals
- Replace sliding blocks

#### 9. STORAGE AND SCRAPPING

#### 9.1 Storage

#### When the lift needs to be stored for a long time

- · Unplug from power socket
- · Lubricate all the parts, including all the contact surface of the rollers
- · Bleed oil from tanks
- · Cover the lift with plastic

#### 9.2 Scrapping

When the lift has exceeded its life span and can not be used any more, disconnect it from the electrical supply and dispose of it as required by the local council regulations







## 3.5t Low Profile Mid Rise Scissor Lift

## 10. HYDRAULIC OIL DATA

#### **#2 Lithium Lubricant**

ITEM	SPECIFICATIONS
Conical degree (1/10mm)	278
Dropping point	The motor is rotating in the wrong direction Oil level is too low Oil leak
Erosion (T2 Copper Plate (100 - 24h)	No Change
Copper Screening (100 - 22h)%	4
Evaporation (100 - 22h) %	2
Oxidising stability (99 - 100h)	0.2
Non-corrosibility (52 - 48)	Grade 1
Foreign substance (Microscopic method) (number/cm³) Above 10µm Above 25µm Above 75µm Above 125µm	No more than 5000 No more than 3000 No more than 5000
Relative Viscosity (-15, 10s <sup>-1</sup> ), / (Pa·s)	<800
Humidity Loss (38, 1h) (%)	≤8

#### N32 Mechanic Oil (for winter)

ITEM	SPECIFICATIONS
Moving Viscosity 40	28.8 ~ 35
Pour	≤-15 wrong direction Oil level is too low Oil leak
Flash point	≥175

## N46 Mechanic Oil (for summer)

ITEM	SPECIFICATIONS
Moving Viscosity 40	41.4 ~ 50.6
Pour	≤-9 wrong direction Oil level is too low Oil leak
Flash point	≥185

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#### **HYDRAULIC OIL DATA**

#### #2 Lithium Lubricant

ITEM	SPECIFICATIONS
Conical degree (1/10mm)	278
Dropping point	The motor is rotating in the wrong direction Oil level is too low Oil leak
Erosion (T2 Copper Plate (100 - 24h)	No Change
Copper Screening (100 - 22h)%	4
Evaporation (100 - 22h) %	2
Oxidising stability (99 - 100h)	0.2
Non-corrosibility (52 - 48)	Grade 1
Foreign substance (Microscopic method) (number/cm³) Above 10µm Above 25µm Above 75µm Above 125µm	No more than 5000 No more than 3000 No more than 5000
Relative Viscosity (-15, 10s <sup>-1</sup> ), / (Pa·s)	<800
Humidity Loss (38, 1h) (%)	≤8

#### N32 Mechanic Oil (for winter)

ITEM	SPECIFICATIONS
Moving Viscosity 40	28.8 ~ 35
Pour	≤-15 wrong direction Oil level is too low Oil leak
Flash point	≥175

#### N46 Mechanic Oil (for summer)

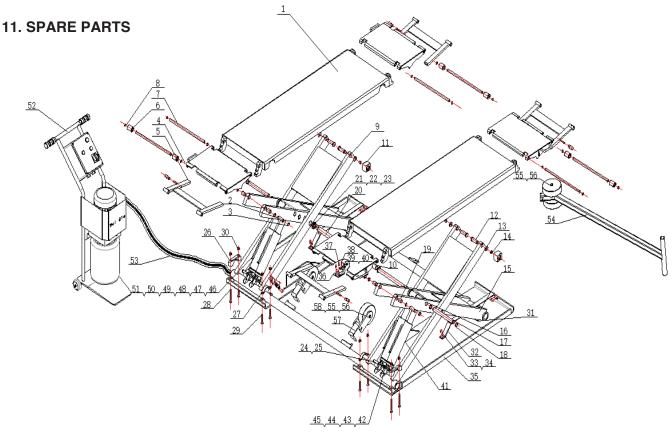
ITEM	SPECIFICATIONS
Moving Viscosity 40	41.4 ~ 50.6
Pour	≤-9 wrong direction Oil level is too low Oil leak
Flash point	≥185

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NUMBER	FACTORY CODE	CODE	NAME
1	AA35MRS- 400-00	AA35MRS-1001	Working table plate
2	AA35MRS- 000-07	AA35MRS-1002	Short axle for table
3	AA35MRS- 894.1	AA35MRS-1003	Shield ring 20
4	AA35MRS- 010-00	AA35MRS-1004	Bridge table
5	AA35MRS- 020-00	AA35MRS-1005	Bridge support
6	QWJ632W-11-02	AA35MRS-1006	Trolley
7	AA35MRS- 000-13	AA35MRS-1007	Long support axle
8	AA35MRS- 894.1	AA35MRS-1008	Shield ring 20
9	AA35MRS200-00	AA35MRS-1009	Support rod (outside)
10	AA35MRS-SF-1	AA35MRS-1010	Composite bush 3035P34x30x35
11	AA35MRS- 000-08	AA35MRS-1011	Table slider
12	AA35MRS- 000-09	AA35MRS-1012	Table slider axle
13	AA35MRS- 97.1	AA35MRS-1013	Plain washer 12
14	AA35MRS- 6170-2000	AA35MRS-1014	Six angle nut M12
15	AA35MRS- 300-00	AA35MRS-1015	Support rod (inside)
16	AA35MRS-SF-1	AA35MRS-1016	Composite bush 2540P28x25x40
17	AA35MRS- 000-05	AA35MRS-1017	Cylinder axle
18	AA35MRS- 894.1	AA35MRS-1018	Shield ring 25
19	AA35MRS-SF-1	AA35MRS-1019	Composite bush 2025 P23x20x25
20	AA35MRS- 000-06	AA35MRS-1020	Coupling shaft

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#### 11. SPARE PARTS

NUMBER	FACTORY CODE	CODE	NAME
21	AA35MRS- 812-1988	AA35MRS-1021	Nut M27X2
22	AA35MRS- 858	AA35MRS-1022	Washer 27
23	AA35MRS- 95	AA35MRS-1023	Plain washer 27
24	AA35MRS000-04	AA35MRS-1024	Base axle (cylinder)
25	AA35MRS- 894.1	AA35MRS-1025	Shield ring 15
26	AA35MRS- 000-01	AA35MRS-1026	Base slider
27	AA35MRS- 000-02	AA35MRS-1027	Cover
28	AA35MRS- 3-2000	AA35MRS-1028	Inner six angle head screw M10x100
29	AA35MRS- 3-2000	AA35MRS-1029	Inner six angle head screw M10x70
30	AA35MRS-1-2000	AA35MRS-1030	Six angle screw M10
31	AA35MRS- 000-03	AA35MRS-1031	Internal shear slide
32	AA35MRS- 000-10	AA35MRS-1032	Limit plate
33	AA35MRS- 1-2000	AA35MRS-1033	Internal six angle cylinder screw M6X12
34	AA35MRS- 93	AA35MRS-1034	Spring 6
35	AA35MRS- 100-00	AA35MRS-1035	Basement
36	AA35MRS- 000-15	AA35MRS-1036	Upper position mounting plate
37	AA35MRS- 70.1	AA35MRS-1037	Bolt M6x10
38	AA35MRS- 8108	AA35MRS-1038	Limit switch
39	AA35MRS- 818	AA35MRS-1039	Bolt M4x12
40	AA35MRS- 818	AA35MRS-1040	Bolt M4x25
41	AA35MRS- 500-00	AA35MRS-1041	Cylinder
42	AA35MRS- 000-11	AA35MRS-1042	High pressure hose
43	AA35MRS- 600-01	AA35MRS-1043	Parachute value joint
44	AA35MRS- 712-00	AA35MRS-1044	Parachute value
45	AA35MRS-1977	AA35MRS-1045	Oil seal 22
46		AA35MRS-1046	304 Joint G1/8"- 06
47		AA35MRS-1047	Joint G1/8"- 06 KLC6-01
48		AA35MRS-1048	Return oil PU hose
49		AA35MRS-1049	Gas pope joint
50		AA35MRS-1050	Gas pope joint
51	AA35MRS- 000-06	AA35MRS-1051	Gas pope joint for power unit
52	AA35MRS- 700-000	AA35MRS-1052	Control box
53	AA35MRS- 000-18	AA35MRS-1053	Oil hose L=2500
54	AA35MRS- 600-00	AA35MRS-1054	Guide frame
55	AA35MRS- φ17x46x150	AA35MRS-1055	Nylon wheel 6"
56	AA35MRS- 894.1	AA35MRS-1056	Shield ring 17
57	AA35MRS- 030-00	AA35MRS-1057	Trolley fame
58	AA35MRS- 030-01	AA35MRS-1058	Trolley axle



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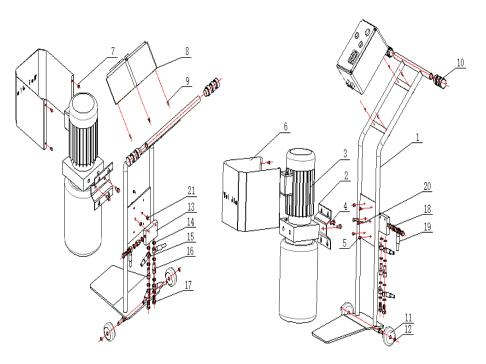




# Alemlube

# **OWNER'S TECHNICAL MANUAL**

# 3.5t Low Profile Mid Rise Scissor Lift



NUMBER	FACTORY CODE	CODE	NAME
1	AA35MRS700-00	AA35MRS-2001	Control box fame
2	AA35MRS000-01	AA35MRS-2002	Pump installation frame
3	AA35MRS2F	AA35MRS-2003	Pump
4	AA35MRS- 5781	AA35MRS-2004	Bolt M10x20
5	GB/T 5781	AA35MRS-2005	Bolt M6x10
6	AA35MRS700-07	AA35MRS-2006	Safety cover
7	AA35MRS- 818	AA35MRS-2007	Bolt M6x10
8	AA35MRS- 1100-00	AA35MRS-2008	Control box
9	AA35MRS- 818	AA35MRS-2009	Bolt M4x12
10		AA35MRS-2010	Bicycle handle sleeve
11	AA35MRS- φ12x35x75	AA35MRS-2011	Trolley
12	AA35MRS- 894.1	AA35MRS-2012	Shield ring 12
13	AA35MRS- 310-02	AA35MRS-2013	Valve seat
14		AA35MRS-2014	Oil seal 14
15	AA35MRS- 000-11	AA35MRS-1042	High pressure hose
16	AA35MRS- 000-01	AA35MRS-2015	Pressing joint
17	AA35MRS- 000-07	AA35MRS-2016	Short pressing bolt
18	AA35MRS- 000-11	AA35MRS-2017	Transition joint
19	AA35MRS- 000-16	AA35MRS-2018	High pressure hose
20	AA35MRS- 5781	AA35MRS-2019	Bolt M8x30
21	AA35MRS- 2000	AA35MRS-2020	Nut M8

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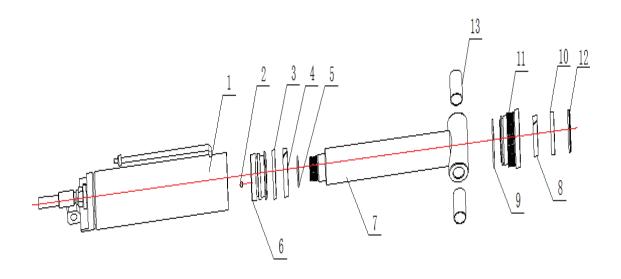
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## 11. SPARE PARTS



NUMBER	FACTORY CODE	CODE	NAME
1	AA35MRS- 510-00	AA35MRS-3001	Cylinder
2	AA35MRS- 78	AA35MRS-3002	Bolt M5x6
3	AA35MRS- 55x45x6	AA35MRS-3003	Seals for piston
4	AA35MRS- 002-0550S-47	AA35MRS-3004	Wearing Ring T47
5	AA35MRS- 3452.1	AA35MRS-3005	O-ring φ30×2.65
6	AA35MRS- 500-01	AA35MRS-3006	Piston
7	AA35MRS- 520-00	AA35MRS-3007	Piston rod
8	AA35MRS- 002-0400S-47	AA35MRS-3008	Wearing ring T47
9	AA35MRS- 3452.1	AA35MRS-3009	O-ring φ50×2.65
10	AA35MRS- 40×48×8	AA35MRS-3010	Oil seal
11	AA35MRS- 500-02	AA35MRS-3011	Guide sleeve
12	AA35MRS- 40×48×5	AA35MRS-3012	Dustproof ring
13	AA35MRS- SF-1	AA35MRS-3013	Bush P28x25x30

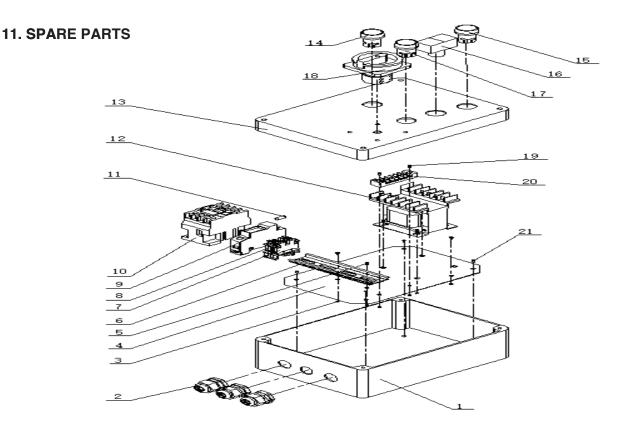




# Alemlube

# **OWNER'S TECHNICAL MANUAL**

# 3.5t Low Profile Mid Rise Scissor Lift



NUMBER	FACTORY CODE	CODE	NAME
1	AA35MRS- 635Z-1100-01W	AA35MRS-4001	Control box
2		AA35MRS-4002	PG13.5 Wireness bundle
3	AA35MRS- 6170-2000	AA35MRS-4003	Nut M5
4	AA35MRS1000-01	AA35MRS-4004	Installation board
5	AA35MRS- 818	AA35MRS-4005	Bolt M5x8
6		AA35MRS-4006	Rail
7	AA35MRS- 2.5B	AA35MRS-4007	Terminal
8	AA35MRS- 2.5	AA35MRS-4008	Terminal
9	AA35MRS- 32 1P	AA35MRS-4009	Brake seat
10	AA35MRS- 1210 AC24V	AA35MRS-4010	AC Contactor
11	AA35MRS- 32 6A	AA35MRS-4011	Fuse 6A
12	AA35MRS- 63VA	AA35MRS-4012	Transformer
13	AA35MRS-	AA35MRS-4013	Control box cover
14	AA35MRS- 22DS/Z AC24	AA35MRS-4014	Signal lamp AC24V
15	AA35MRS- 22SM AC24	AA35MRS-4015	Buzzer AC24V
16		AA35MRS-4016	Button
17		AA35MRS-4017	Green button
18	AA35MRS- 20 GS-20/04-2	AA35MRS-4018	Transform switch
19	AA35MRS- 818	AA35MRS-4019	Bolt M4x10
20	AA35MRS- 1506	AA35MRS-4020	6 wire board
21	AA35MRS- 847-1985	AA35MRS-4021	Self tapping screws M4x8

NSW/ACT	
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