

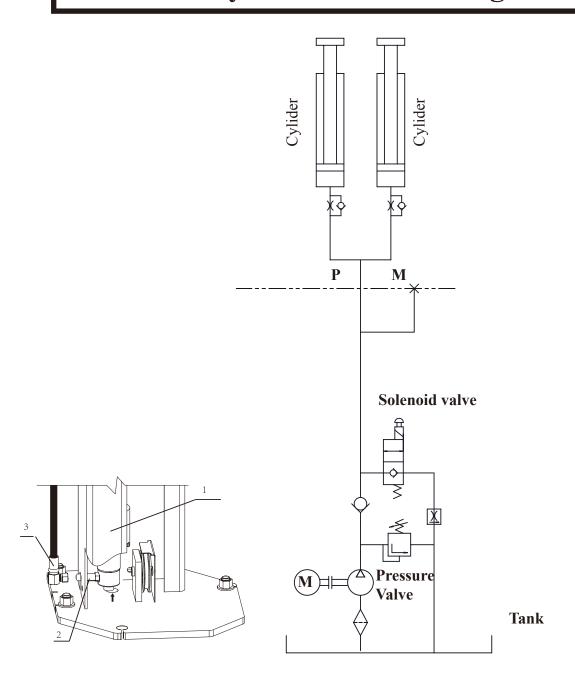
Annex

2 column surface -mounted Lift SPOA3T-5 Series 700

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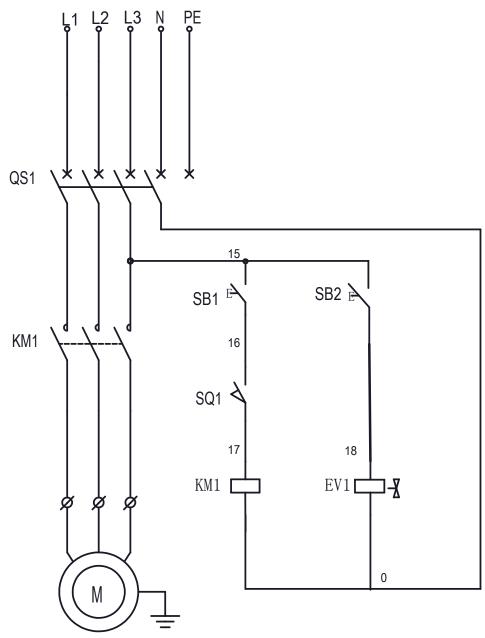


I. Hydraulic circuit diagram

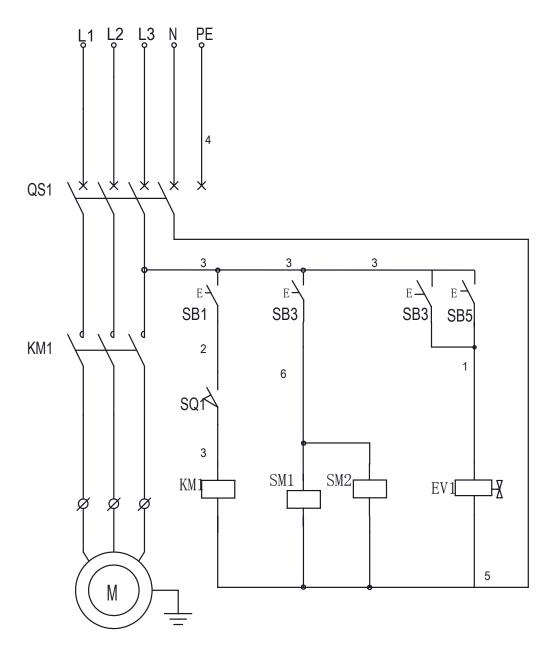


	Partno.	Description	Qty
1	N382Y	Hydraulic cylinder	2
2	ATO-7-9802-1	Fitting	2
	N3113	Power unit hydraulic hose	1
3	G3T-2103(N3114)	Overhead hydraulic hose for EH1	1
	G3T-2203(N3115)	Overhead hydraulic hose for EH2	1

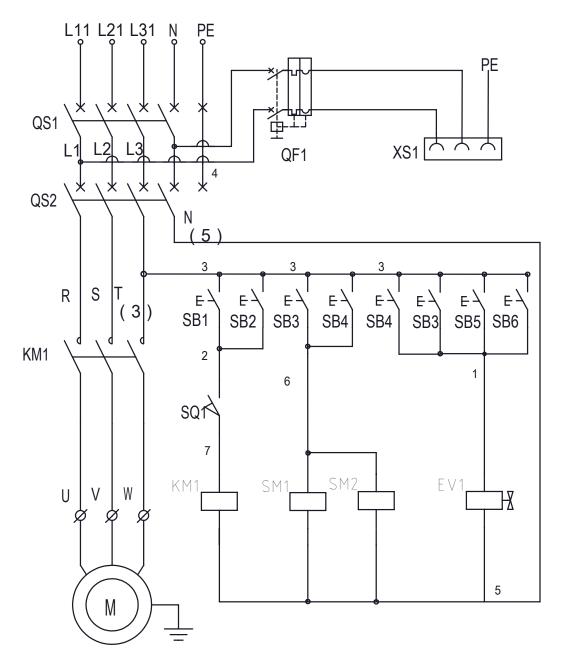
II. Electric wiring diagram



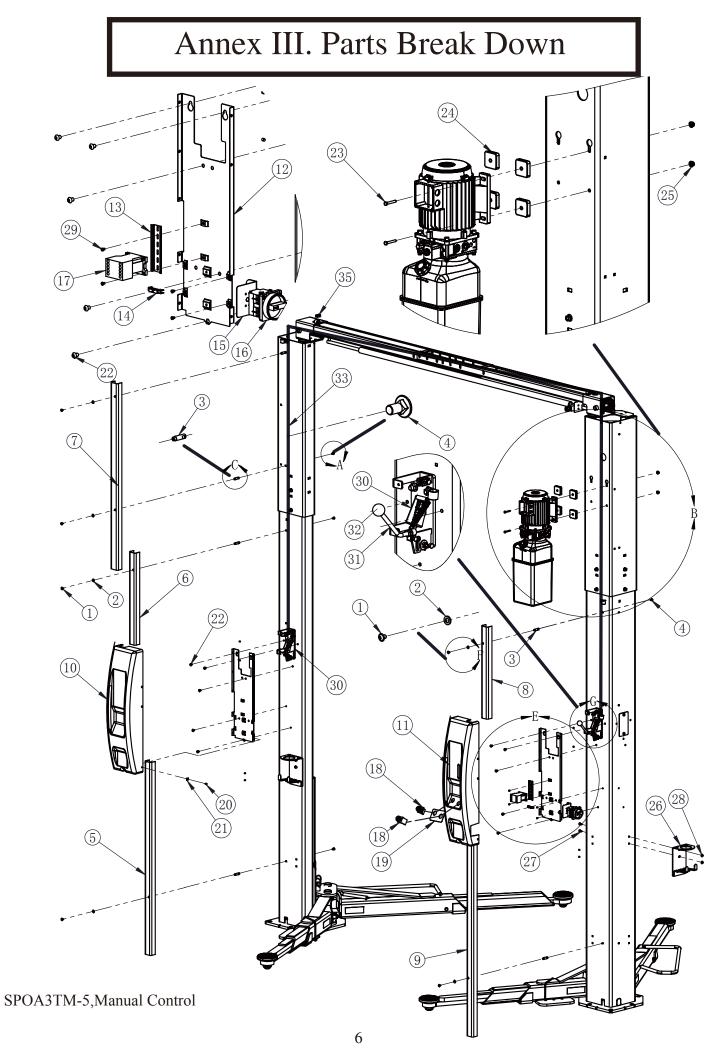
	For SPOA3T N	1 version	
QS1	Main switch	EV1	Descent valve
SQ1	Up Limit switch	KM1	Contactor
SB1	Up button	SB2	Lower button



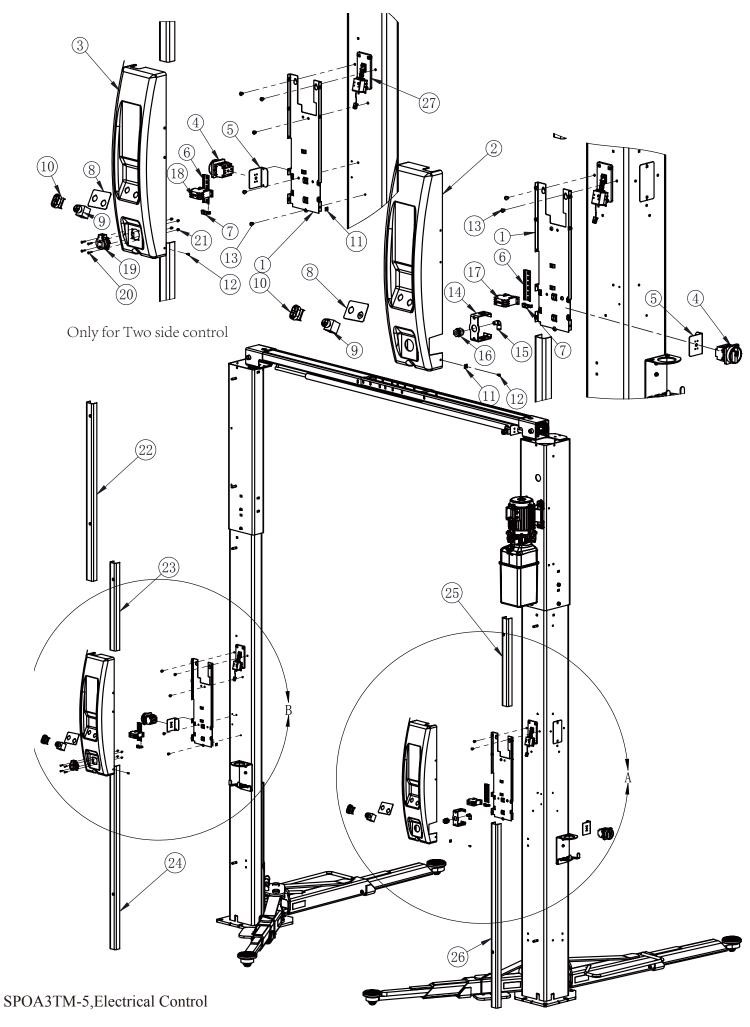
	For SPOA3T E version (one side control)			
QS1	Main switch	EV1	Descent valve	
SQ1	Up Limit switch	KM1	Contactor	
SB1	Up button	SB3	Lower button	
SB5 Padlock button				
SM1/SM2 Release of the solendid				



For SPOA3T E version (two side control)					
	Slave side	Main side			
QS1	Main switch	QS2	Main switch		
QF1	Leakage protector	KM1	Contactor		
SB2	Up button	SB1	Up button		
SB4	Lower button	SB3	Lower button		
SB6	Padlock button	SB5	Padlock button		
XS1	Euro receptacle	SQ1	Up limit switch		
	EV1 Descent valve				
	SM1/SM2 Release of	of the solendie	d		

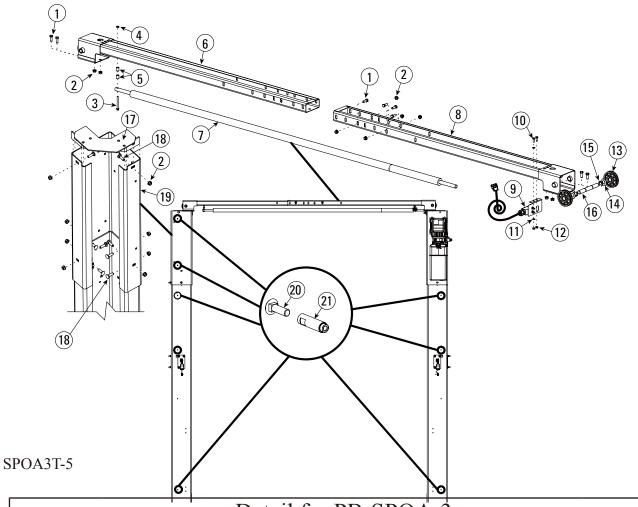


	Detail	for PB-SPOA-1	
	PartNo.	Description	Qty
1	41659	M6*1.0*10mm Lg flanged BHCS	6
2	G3T-1005(N1224-7)	Rubber washer	6
3	G3T-1004(N1224-6)	Mounting stud	6
4	41658(BCQ061012820)	Carriage bolt,plated M6*1.0*12	6
5	FA7417-11A	Plastic wire cover	1
6	FA7417-11C	Plastic wire cover	1
7	FA7417-11E	Plastic wire cover	1
8	FA7417-11D	Plastic wire cover	1
9	FA7417-11B	Plastic wire cover	1
10	SPOA-PC2	Plastic control cover	1
11	SPOA-PC1	Plastic control cover(main side)	1
12	FA7274-7Y	Cover mounting base plate	2
13	FA7274-10D	Mounting plate	1
14	KTB2-STB	End capped	1
15	FA7274-9D	Mounting plate	1
16	TO-2-8900(XG150046)	Main switch	1
17	XTCG018C00DT	AC contactor	1
18	A22-RD-30/K10	Button	2
19	NP797-1	Labe1	1
20	B19-#8-1/2	Cross recessed head tapping screw #8-1/2	12
21	FA7180-11	U-type nut clip	12
22	B25-8*10	Pan head screw M8*10	10
23	B11-8*40(41622)	Hexagon bolt M8*40(8.8)	4
24	FA965	Vibration pad	4
25	NFS08100082S	Serrated flanged locknut,plated M8	4
26	G3T-1008	Tool holder	2
27	41647	Carriage bolt,plated M6*16	4
28	NFS06100082S(41656)	Serrated flanged locknut,plated M6	4
29	B23-4*6	Screw M4*6	4
30	N624	Lock system assembly	2
31	HTO-1210	Handle	1
32	FC134-91	Rubber ball1	1
33	FJ7595-1	Steel cable	1
2.4	SPOA3T-2001	Brake line pipe(For EH1)	2
34	SPOA3T-2002	Brake line pipe(for EH2)	2
35	N619	Cable end bracket	2
36	N63-1	Latch cable clamp assembly (not show)	1

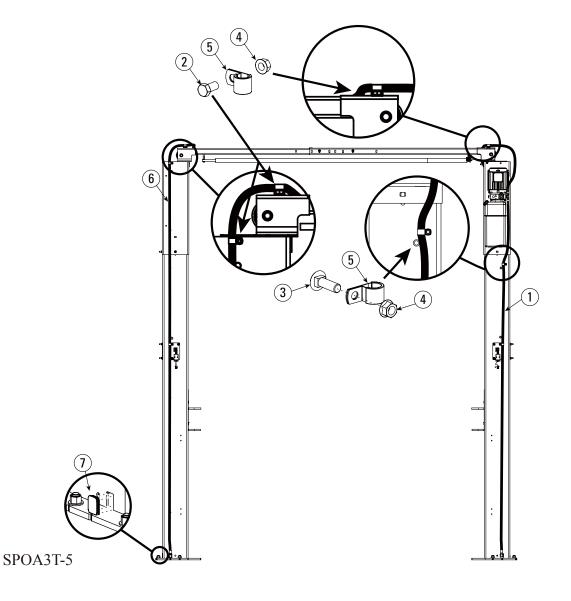


		Detail for PB-SPOA-2		
	Partno.	Description	QTY for S	QTY for C
1	FA7274-7Y	Cover mounting base plate	2	2
2	SPOA-PC3	Plastic control cover	1	1
3	SPOA-PC3	Plastic control cover	1	0
3	SPOA-PC4	Plastic control cover	0	1
4	TO-2-8900(XG150046)	Main switch	2	1
5	FA7274-9D	Mounting plate	2	1
6	FA7274-10D	Mounting plate	2	1
7	KTB2-STB	End capped	2	1
8	NP797-1	Label	2	1
9	A22-RD-50/K10	Pad lock button	2	1
10	A22-QDDL-30/30/K30	Up and down button	2	1
11	FA7180-11	U-type nut clip	12	12
12	B19-#8-1/2	Cross recessed pan tapping screw#8-1/2	12	12
13	B25-8*10	Hex socket screw M8*10	10	10
14	FA7274-8D	Mounting plate	1	1
15	SPOA40E-9803-02	Air Fitting	1	1
16	SPOA40E-9803-03	Air Fiiting	1	1
17	XTCG018C00DT	AC contactor	1	1
18	PLD10-16/IN/C/003	Leakage protector	1	0
19	ME11012	Euro receptacle	1	0
20	B26-4*20	Hexgan socket screw M4*20	4	0
21	B33-4	Nylon nut M4	4	0
22	FA7417-11E	Plastic wire cover	1	1
23	FA7417-11C	Plastic wire cover	1	1
24	FA7417-11A	Plastic wire cover	1	1
25	FA7417-11D	Plastic wire cover	1	1
26	FA7417-11B	Plastic wire cover	1	1
27	G3T-1200(N622)	Lock system assembly	2	2

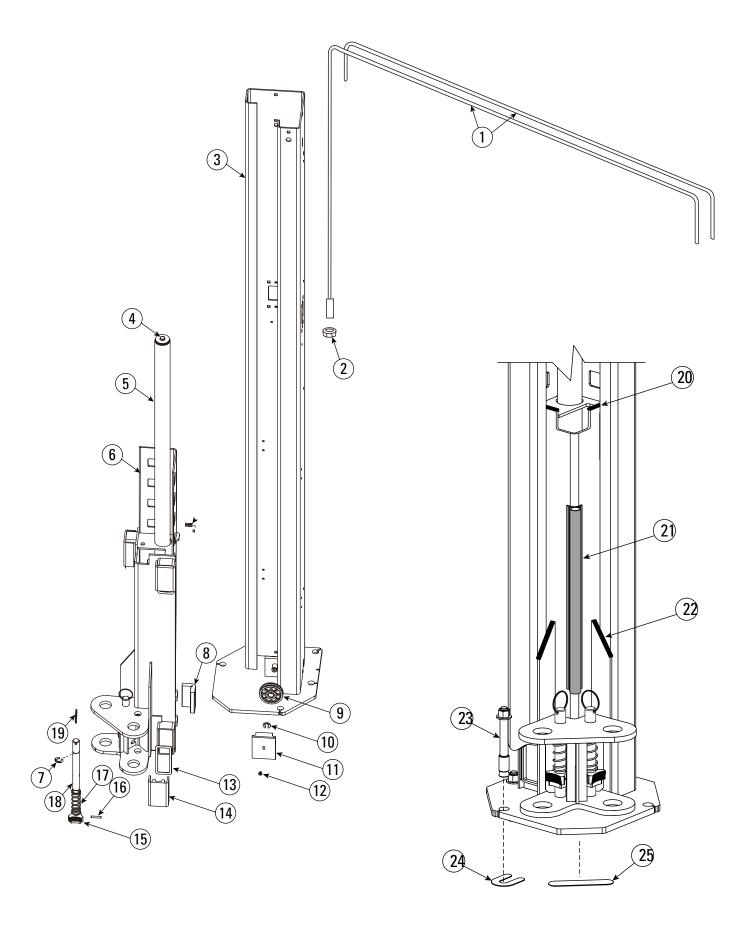
C mean the two side control ,S mean only one side control



	Detail	for PB-SPOA-3	
	Partno.	Description	Qty
1	41536(B11-10*20)	M10*20 HHCS grade8.8 plated	8
2	41655(NFS10100082S)	M10 serrated flanged locknut,plate	24
3	41660(B11-6*70)	M6*70 HHCS grade8.8 plated	1
4	В33-6	M6 nylock nut ,plated	1
5	G3T-4003(FJ7871)	Spacer	2
6	N481-1(G3T-4200)	Right hand overhead weldment	1
7	N415(G3T-4002)	Overhead switch bar	1
8	N480-1(G3T-4100)	Left hand overhead weldment	1
9	N412(G3T-4004)	Overhead switch assembly	1
10	41413(B11-6*20)	M6*20 HHCS grade8.8 plated	2
11	41599(WLE061000220)	External tooth lockwasher,plated Φ6	2
12	41661(B31-6)	Hexagon nut M6 grade8.8 plated	2
13	N377	Overhead sheave	4
14	41388	Washer 1-1/2"OD	4
15	41411	Klipring for shaft	4
16	G3T-4001(GJ7444-8)	Sheave shaft	2
17	G3T-4300(N4101)	Overhead mounting bracket	2
18	41646(BCQ101020820)	Carriage bolt M10*20 grade8.8 plated	16
19	G3T-2101(N4109-1)	EH1 column extension	2
19	G3T-2201(N4110-1)	EH2 column extension	2
20	41658(BCQ061012820)	Carriage bolt,plated M6*1.0*12	6
21	G3T-1004(N1224-6)	Mounting stud	6

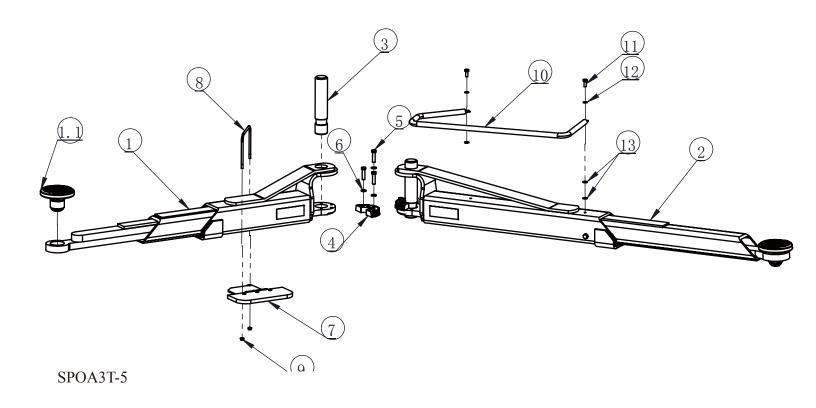


	Detail for PB-SPOA-4			
	Partno.	Description	Qty	
1	N3113	Power unit hydraulic hose	1	
2	41536(B11-10*20)	M10*20 HHCS grade8.8 plated	2	
3	41646(BCQ101020820)	Carriage bolt M10*20 grade8.8 plated	2	
4	41655(NFS10100082S)	M10 serrated flanged locknut,plate	4	
5	G3T-8005(N3126)	Hose clamp	4	
	G3T-2103(N3114)	Overhead hydraulic hose for EH1	1	
6	G3T-2203(N3115)	Overhead hydraulic hose for EH2	1	
7	G3T-8002(FA964)	Lower column hole plug	2	

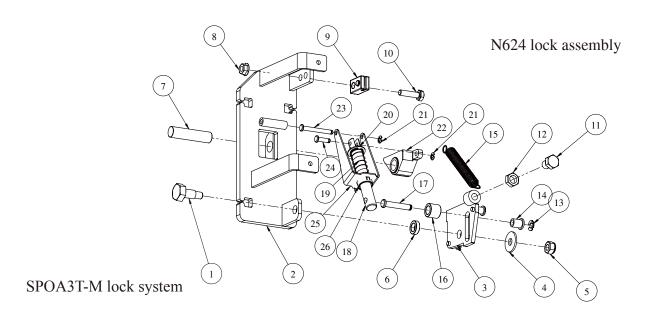


SPOA3T-5

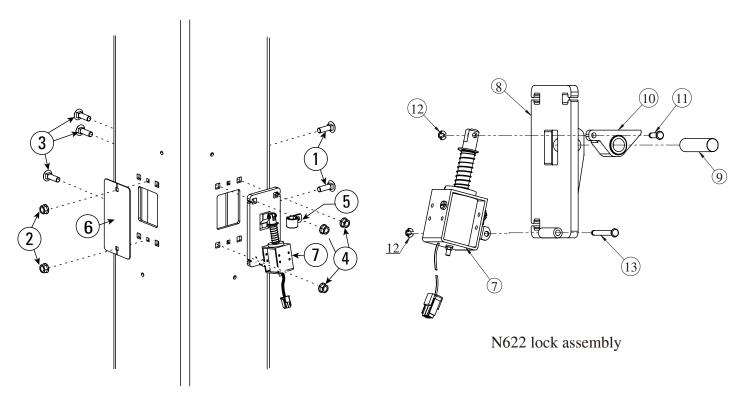
	Detail	for PB-SPOA-5	
	PartNo.	Description	Qty
1	G3T-2102(N3120)	Equalizer cables for EH1	1
	G3T-2202(N3121)	Equalizer cables for EH2	1
2	B33-12	Nylon lock nut M12	NA
3	G3T-1100(N762)	Column weldment	2
4	N380-10Y	Bleeder screw	NA
5	N382Y	Hydraulic cylinder	1
6	G3T-3100(N828)	Carriage assembly	2
7	N119-3	Retaining ring 1"	4
8	G3T-3002(N1224-2)	Real slider block	2
9	N377	Sheave	2
10	41411	Klipring for shaft 3/4"	2
11	G3T-1001(N119-1)	Sheave cover	2
12	40063	Phillips PHMS,plated 1/4"-20NC*3/8"	2
13	G3T-3004(N115)	Slider block shim	8
14	G3T-3003(N1224-1)	Slider block	4
15	N2121Y	Arm restraint pawl	4
16	14427	Spring pin 1/4"*1-1/2"	4
17	G3T-3005(FJ7656-2)	Arm restraint spring	4
18	G3T-3006 (N121-1Y)	Actuator pin	4
19	FJ7985-1	Actyator pin handle	4
20	G3T-8004(FA962)	Upper carriage bumper	4
21	G3T-8001 (FA961)	Column door bumper	2
22	G3T-8003(FA941)	Carriage gusset bumper	4



	Detail for PB-	SPOA-6(Arm assembly)	
	PartNo.	Description	Qty
1	N2224Y	Front arm assembly	2
1.1	FJ6206	Low profile adapter assembly	4
2	N2225Y	Rear arm assembly	2
3	G3T-5001(N2154)	Arm pin	4
4	N2122Y	Restraint gear	4
5	40373	3/8"-16NC*1-1/2"HHCS,grade 8.8 ,plated	6
6	40818	Spring lockwasher 3/8"	6
7	G3T-5500(N2255-1)	Front arm guard assembly	2
0	G3T-5504(N2255-10)	Long strap	2
8	G3T-5505(N2255-11)	Short strap	2
9	40641(991490)	Hex FLGD wzlock nut PLTD 1/4"-20NC	4
10	G3T-6001(N244-4)	Arm guard	2
11	40252	HHCS plated 5/16"-18NC*3/4"	4
12	40850	Spring lockwasher 5/16"	4
13	40856	Flat washer 5/16"	8



Det	cail for PB-SPOA-7(N	M version lock system) 2pcs 1	N624
	Partno.	Description	Qty
1	BS10-8-10	Shoulder bolt	1
2	ATO-1100(N624-7)	Bracket weld	1
3	ATO-1200(N624-3)	Latch control plated weld	1
4	B42-8	Big washer 8	1
5	B33-8	Nylon lock nut M8	1
6	ATO-1011(N624-15)	Spacer	1
7	G3T-1202(N621-7)	Latch shaft	1
8	40641	Hex flgd wzlock nut 1/4"-20NC	1
9	N619	Cable end bracket	1
10	40108	Hex bolt 1/4"-20NC*1"	1
11	40126	Hex bolt 3/8"-16NC*1/2"	1
12	40658	Hex Jam nut 3/8"-16NC	1
13	41687	Snap ring 1/4"	1
14	ATO-1007(N624-11)	Flanged bushing	1
15	ATO-1004(N624-12)	Spring	1
16	ATO-1010(N624-14)	Spacer	1
17	ATO-1008(N624-9)	Latch pivot pin	1
18	ATO-1006(N624-1)	Latch control shaft	1
19	ATO-1005(N624-2)	Spring	1
20	41686	Snap ring 1/2"	1
21	41472	Snap ring 3/16"	2
22	G3T-1205(N621-5)	Latch	1
23	G3T-1203(N621-8)	Shaft	1
24	G3T-1204(N621-9)	Shaft	1
25	ATO-1003(N624-6)	Mechanical latch spring bracket	1
26	ATO-1009(N624-5)	Mechanical latch shaft bushing	1



SPOA3T-S lock system

	Detail for PB-SPOA-8(E version lock system)			
	Partno. Description			
1	41658	Carriage bolt,plated M6*12 8.8 grade	4	
2	41656	Serrated flanged locknut M6	4	
3	41648	Carriage bolt,plated M10*30 8.8 grade	6	
4	41655(NFS10100082S)	Serrated flanged locknut M10	6	
5	G3T-8005(N3126)	Hose clip	2	
6	G3T-1201(N1224-8)	Cover plate	2	
7	N621-6	Solenoid	2	
8	G3T-1210(N622-1)	Bracket weld	2	
9	G3T-1202(N621-7)	Shaft	2	
10	G3T-1205(N621-5)	Latch	2	
11	G3T-1204(N621-9)	Shaft	2	
12	41472	Snap ring 3/16"	4	
13	G3T-1203(N621-8)	Shaft	2	

IV. Spare Parts List

1.



Part.No	Description	Qty	Dim
N377	Sheave with bearing	6	Ф88.9*19.05

2.



Part.No	Description	Qty	Dim
FJ6202	Adapter	4	

3.



Part.No	Description	Qty
G3T-3003	Slider	8

4.



Part.No	Description	Qty
HTO-2003	Slider on the top(38.1mm)	2

5.

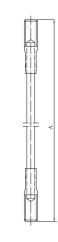


Part.No	Description	Qty
G3T-3004	Spacer for slider	8

6.



Part.No	Description	Qty
G3T-3002	slider on the top	2



7.

8.

Part.No.	Description	Qty	Dim A
G3T-2102	Equalizer cable for EH1	1	9690mm
G3T-2202	Equalizer Cable for EH2	1	10299mm

Part.No.	Description	Qty	Dim A
G3T-2103	Hydraulic hose for EH1	1	7523mm
G3T-2203	Hydraulic hose for EH2	1	8132mm
N3113	Power unit hydraulic hose	1	3105mm

9.



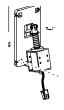
Part.No	Description	Qty
G3T-2105	Hose cover	1

10.



Part.No	Description	Qty
N624	Lock system assembly for M Version	2

11.



Part.No	Description	Qty
G3T-1200(N622)	Lock system assembly for E Version	2
N621-6	solenoid	2

Part.No Description Qty Remark
N967-1-Bag-3 package for install 1
Bolts anf fitting for installing the Power unit

Part.No Description Qty Remark

SPOA3T-D2 package for install

Bolts for installing the plastic cover to the post

Part.No Description Qty Remark

SPOA3T-D1N package for install

Bolts for installing arm restraint gear ,wire cover,lock system to the post

Other hydraulic components

Part.No	Description	Qty	Remark
N382Y-9180	Seal kit for cylinder	1	

ATTACHMENT Two column Lift SPOA3T-5

Maintenance schedule: Notes for execution of the visual and functional testing

Notes for execution of the visual and functional testing

In the scope of periodical inspections, the followings must be checked in particular:

1. Information on the lifting platform	Object to be checked
Nameplate	Fastening
Labeling	Readability
Summary of the manual	Completeness
2.Detailed operating instructions	Condition
	Readability
3.Warnings	Condition
	Noticeability
4. Protection against unauthorized use	Condition
	Function
	Mobility
	Safety key
5. Actuators	
Lifting, lowering	Condition
Tilting, tipping	Function
Turning, pivoting	Mobility
Switching	Clear assignment
Opening and closing (of the loading tailgate)	Permanent labeling of the direction of movement
Driving	Protection against unintentional actuation
Supports	Locking mechanism of the actuators with multiple
	controls
6. Emergency shutdown,	Condition
Emergency drainage	Function
	Mobility
7. Signalling devices,	Condition
devices for communication	Function
	Noticeability
	Reliability
8. Devices for the stable installation	
Spirit level	Condition
Supports	Function
Spindles	Mobility
Bottom pan	Wear
Elimination of the spring travel	Deformation
	Corrosion
	Cracks
9. Supporting structure	Cracks
	Deformation
	Corrosion
	Mobility of guides, pulleys, hinges, telescopes,
	Wear of guides, pulleys, hinges,
	fastening and securing of removable parts
	Effectiveness of locking mechanisms

10. Load suspension devices	
Protection against sliding	Condition
Roll-off protection	Function
Holding device	T different
Protection of the hinged bracket	
Safety fence	Condition
	Corrosion
	Fastening and securing of removable parts
	Effectiveness of locking mechanisms
	Mobility of movable parts
Ground	Surefootedness
Ground	Deformation
	Corrosion
	Fastening and securing of removable parts
Parallal motion on anarating platforms	Condition
Parallel motion on operating platforms	Function
	Wear
	Cracks
	Corrosion
C. 11	
Stowable operating platform	Condition and effectiveness of the locking
	mechanism
Stairs	Surefootedness
	Deformation
	Corrosion
	Damage
	Fastening and securing of removable parts
	Welded connections
11. Steel wire rope Cable connections	Wear
	Corrosion
	Wire breakages
	Wire break nests
	Pinch points
	Loosening of the outer layer
	Bird-caging
Sheaves and pulleys	Cracks
	Signs of wear
	Burr formation in the groove
	Correct aligning of the groove
Rope winding	Condition
Clamping device	Function
Securing at rope bearings	
Protection against coming off of the rope	
12. Steel link chains, chain linkings	Mobility
,	Wear
	Cracks
	Securing of the studs, e.g. by rivet head, ring
	3,,,,,

Chain wheels	Condition
Sprockets	Function
Clamping device	Condition
Securing of the chain guide	Function
13. Spindles	Storage
	Deformation
	Contamination
	Wear of the threads
	Notches
	Striations
	Grooves, applications
	Efficiency of the covering
Main nut	Wear of the thread (play)
Compensation ring	Bearing
	Condition
	Notches
	Striations
14. Racks	Fastening
	Wear
	Contamination
	Joints of jointed racks
Pinions	Cracks
	Wear
	Contamination
	Fastening and play of the spindle
15. Hydraulics	Leakage
	Leak test
	Venting
Oil reservoir	Condition and readability of the display
	Control of the oil quantity
	Efficiency of the shut-off device in case of lack of
	oil
Lines	Fastening
Line connections	Damages
	Deformation
	Corrosion
Hoses	Fastening
Hose connections	Damage
	Age
	Brittleness
	Porosity
Cylinders	Fastening
	Cracks
	Pipe connections and hose connections
	Tightness of the sleeves
Pistons	Surface of the piston rod
	Striations
	Contamination

Filters	External condition		
Pressure control valve	External condition		
	Lead seal undamaged		
16. Pneumatics			
Lines	Leakage		
Line connections	Fastening		
	Damage		
	Deformation		
	Corrosion		
Hoses	Fastening		
Hose connections	Damage		
	Age		
	Brittleness		
C.1:1	Porosity		
Cylinders	Fastening, cracks, pipe connections and hose connections		
	Tightness of the sleeves		
Pistons	Surface of the piston rod, striations, contamination		
Relief valve	External condition, lead seal undamaged		
	External condition and effectiveness		
Gauge, pressure reducer			
17. Driving mechanisms (without bogie)	Connections of parts of the driving mechanism shock-free starting		
Brakes, self-locking gearbox, couplings	Wear, effectiveness		
	wear, effectiveness		
18. Driving carriage, bogie	Wash offortivaness		
Service brakes, emergency brakes	Wear, effectiveness		
Drawbar protection	Condition, effectiveness		
Positive guide, guide rail	Deformation, cracks, condition of the fastening		
Rail joints, end stops, cow-catcher Protection against derailing			
19. Points of access and points of loading	Surefootedness, deformation of handrails, damage		
19. Folitis of access and points of loading	Corrosion, securing of removable parts		
20. Electrical equipment	Corrosion, securing of removable parts		
Lines	Damage, fastening, strain relief of external lines		
Protective earth	Damage, fastening		
	Damage, fastering		
21. Insulation on aerial work platforms, as far as the aerial work platform is intended for work			
on or near unprotected, live parts of electrical			
installations			
Insulation work platform/lifting equipment as	Contamination, damage, insulation resistance		
well as lifting equipment/driving carriage	,		
22. Special safety devices			
Emergency limit switch, slack rope switch, rope	Effectiveness, fastening, condition		
break switch, chain fracture switch, control	Deformation, effectiveness of the switch elements,		
locks, switch-off strips, restart protection, anti-	contamination, condition of pressure springs		
tipping device (for stowable work platforms),			

These notes do not claim to be complete, and they must be matched to the lifting platforms to be examined.

ATTACHMENT Four column lifting platforms Inspection log

Inspection log for lifting platforms

Туре:	
Serial number:	
Year of construction:	
Operator:	
Day of first commissioning:	

BlitzRotary GmbH Hüfinger Straße 55 D-78199 Bräunlingen A DOVER COMPANY Telephone +49.771.9233.0 Fax +49.771.9233.99 europe@rotarylift.com www.rotarylift.com

		e first commissioning by technical expert / survey or	
The lifting platform unde	erwent an examinat	tion regarding operational readiness on	
The following/no*) fau	lts found.		
Test scope			
Still pending			
Partial tests There are no*) reasons	against continued o	operation, retesting is not*) required.	
There are no) reasons	agamet continued o	The technical expert/surveyor	
(DI	1.4.	(0: 4)	
Name and address	,date)	(Signature)	
Job title Employed at			
Operator or Represen	<u>ntative</u>		
Deficiencies noted			
(Place	,date)	(Signature)	
Deficiencies fixed			
(Place	,date)	(Signature)	
Retesting	1		
The lifting platform und The deficiencies which		n the examination have not*) been fixed yet.	
There are no*) reasons	against continued o	operation, retesting is not*) required.	
There are no") reasons	agamst continued o	The technical expert/surveyor	
			_
(Place,	date)	(Signature)	address
Name (in block letters)		and	address
·			
Job title			
Employed at			

Test Report Of the examination be	efore the first commissioning by technical expert / survey or	
	examination regarding operational readiness on	
The following/no*) faults found.		
Test scope		
Still nonding		
5tm pending		
Partial tests		
There are no*) reasons against con	ntinued operation, retesting is not*) required.	
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Contact Your Nearest Authorized Rotary Parts Distributor For Genuine Rotary Replacement Parts. Please see the parts breakdown.

DATE REV. CHANGE MADE 09-09-15 New annex manual for SPOA3T release A

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