

Warning Label: To be installed on lift legs.

 **PARKPLUS**
HIGH DENSITY VEHICLE STORAGE

⚠ DANGER



Safety Locks.
Make sure safety
locks engage
properly.

⚠ PELIGRO



Crush Hazard.
Remain clear of lift
when raising or
lowering vehicle.



Crush Hazard.
Keep clear of
moving platform.

⚠ DANGER



Children should
not play on or
around lift.

⚠ WARNING



Keep clear of
pinch points when
lift is moving.

⚠ WARNING



Clear area if
vehicle is in danger
of falling.

⚠ CAUTION



Lift to be used by
trained operator
ONLY.

⚠ WARNING

Driver and
passengers must
exit before raising
equipment.

Set transmission
in "park".

**SET PARKING
BRAKE.**

Do not operate
damaged lift.

 **PARKPLUS**
HIGH DENSITY VEHICLE STORAGE

MODEL: DP-003
MAXIMUM LOAD:
6000 LBS

**AFTER HOUR AND
EMERGENCY
SERVICE
NUMBER
1-800-966-5509**

Warning Label: For installation at front of platform.

	PARKPLUS HIGH DENSITY VEHICLE STORAGE	MAXIMUM LOAD: 6000 LBS SUV's HEAD IN ONLY SET PARKING BRAKE
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Warning Label: For installation on hydraulic power pack.

	PARKPLUS HIGH DENSITY VEHICLE STORAGE	24hr Assistance: 1-800-966-5509
CAUTION		
<ul style="list-style-type: none"> ■ Electrical Shock Hazard: Do not remove cover. ■ No User serviceable parts inside. ■ For Installation in Non-Hazardous Locations Only ■ Read all instructions before operating the equipment. 		
<hr/> <p> Park Plus Inc. Model: DP003 Hydraulic Power Pack: HPS30-3PH Maximum Load: 6000 lbs. Maximum. PSI: 2,500. 208V, 1 Phase, 60 Hertz, 22Amps Controls: 24 Volts DC Hourse Power: 10 Maximum Number of Lifts Connected: 30 </p>		

9.3 Safety Sensors:

For all self operated installations like Multi-Family Residential safety sensors must be installed to detect the presence of an object or person in the boundaries of the lift platform and prevent the platform from lower.

Park Plus uses a planer laser (Keyence SZ-04M) mounted at the front of the parking stall and field adjusted to define the boundary of the lift platform. If an object or person is present within the boundary of the lift platform the lift will not lower and if an object or person enters the boundary of the lift platform while lowering the lift will stop.

The safety sensor is to mounted at about 10"-12" above the finish floor and a limit switch shall be installed to de-activate the safety sensor once the platform is lowered to about 10"-12" off the finish floor. *Boundaries of lift platform shall be clearly marked on the ground with contrasting color.*

See attached Appendix A for more details.

www.parkplusinc.com - info@parkplusinc.com - T: 1-800-966-5509

Confidential Proprietary Information





Section-10

Operator Training Log



Section 10: Operator Training Log – DP003

Owner or Employer: _____

Operator Name: _____

Installation Address: _____

Qualifications:

1. _____

2. _____

3. _____

Stacker Model: DP003 – Double Car Stacker Serial No.: _____

USE REVERSE SIDE OF THIS FORM TO LIST THE COMPLETE SERIAL NUMBERS OF STACKERS

Lifting Capacity (lbs): _____ Maximum Vehicle Height: _____

Training Date: _____ Number of Training Cycles: _____

I have read and understand the Manufacturer's Instructions: (initial) _____

I have received a copy of the Manufactures Instructions: (initial) _____

Training Conducted and Supervised By: _____

Authorized By: _____

I certify that I possess the qualifications necessary and have received the training required to operate the mechanical parking stackers described herein. I understand the risks involved in using the mechanical car stackers and I agree to adhere to the requirements and instructions in this manual.

Operator Signature: _____ Date: _____

I certify that I have verified that the operator whose name is shown above possesses the qualifications necessary and has received training to operate the mechanical parking stacker described herein.

Owner: _____ Date: _____

Vehicle License Plate Number assigned to this stacker: _____

A copy of this Operator Training Log must be kept on site.





Section-11

Inspection Checklist



Section 11: Inspection / Maintenance Checklist – Park Plus DP003

The following is to be used as a quick reference checklist for the purpose of mechanical parking stacker inspection by the owner or employer, the operator or any other person responsible for the routine inspection of the equipment.

Instructions

1. Check the appropriate box as each item is completed. If there is more than one inspector, each person will initial the item they inspected.
2. Record comments, observations and date items were repaired or replaced.
3. If any item was not inspected, write “NI” in the comments box. If any item is not applicable to this lift, write “NA”
4. Sign and Date the bottom when all items are completed.
5. Complete one check lift for each lift being inspected.

Car Stacker Serial Number: _____

Inspection / Service Item:	Comments:
General Overview:	
Record Location of Manufacturing Instructions on Premises	
Check With Operator and Observe For Any Unusual Characteristics	
Check Safety Warning Labels Condition	
Record Rated Load Capacity	
Record Max Vehicle Height	
Confirm Adequacy of Clearances Around Stackers	
Report Standing Water Around Equipment	
Examine Electrical Wiring and Components	

Inspection / Service Item:	OK	REPAIR	COMMENTS:
Structural / Mechanical:			
Examine All Welds:			
Rust / Damage / Wear:			
Alignment:			
Guide Rollers:			
Decking & Covers Secured:			
Anchor Bolts & Other Fasteners:			
Check level of frame:			
Arm Assembly:			
Platform:			
Drive-up Ramps:			
Fig. 11.1 Check all points of lubrication:			Leg Channel must be lubricated every 6 months
Inspection / Service Item:	OK	REPAIR	COMMENTS:
Safety:			
Fig. 11.4 Safety Lock Alignment:			
Safety Sensors:			
Limit Switches:			
Locking Springs			

Locking Control Arm:			
Locking Operation:			
Hydraulic System:	OK	REPAIR	COMMENTS:
Capacity (lbs):			
Test Function			
Fig. 11.3 Oil Level & Inspection for Leaks			
Valves			
Fig. 11.2 Hoses			
Cylinder			
Oil pressure (not to exceed 2500psi):			
Oil Filter:			
15 Minute Leak Test (Vehicle Elevated):			
Check cylinders are operating properly:			
Check oil level at fully raised position:			
Electrical:	OK	REPAIR	COMMENTS:
Function of Switches:			
Limit Switches:			
Condition of Terminals:			
Operation:	OK	REPAIR	COMMENTS:
Operation of all features:			
Inspect / Test all Safety Features:			
Record the lifting speed of platforms:			
Record the lowering speed of platforms:			
Check for imbalances:			

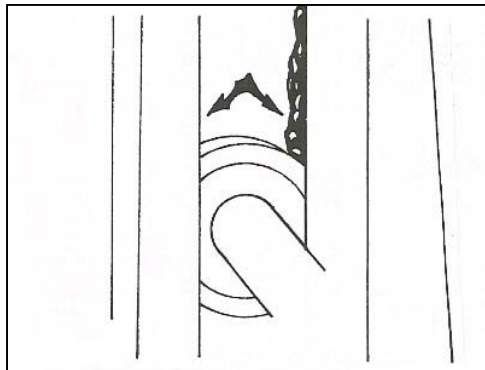


Figure 11.1

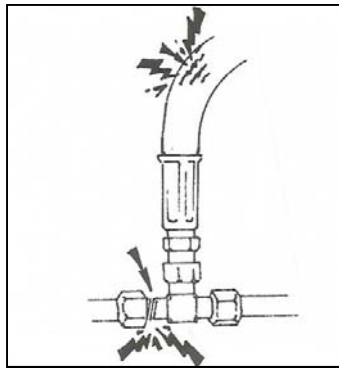


Figure 11.2

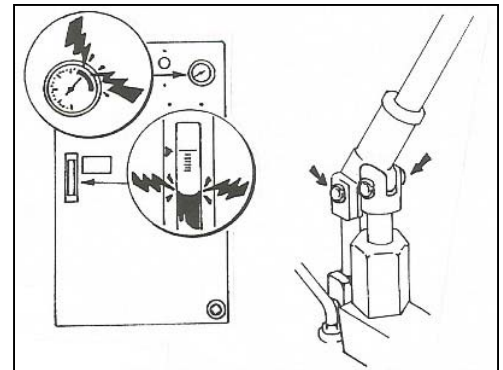


Figure 11.3

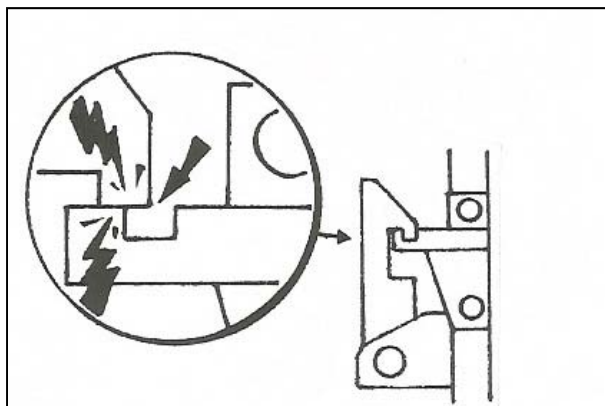
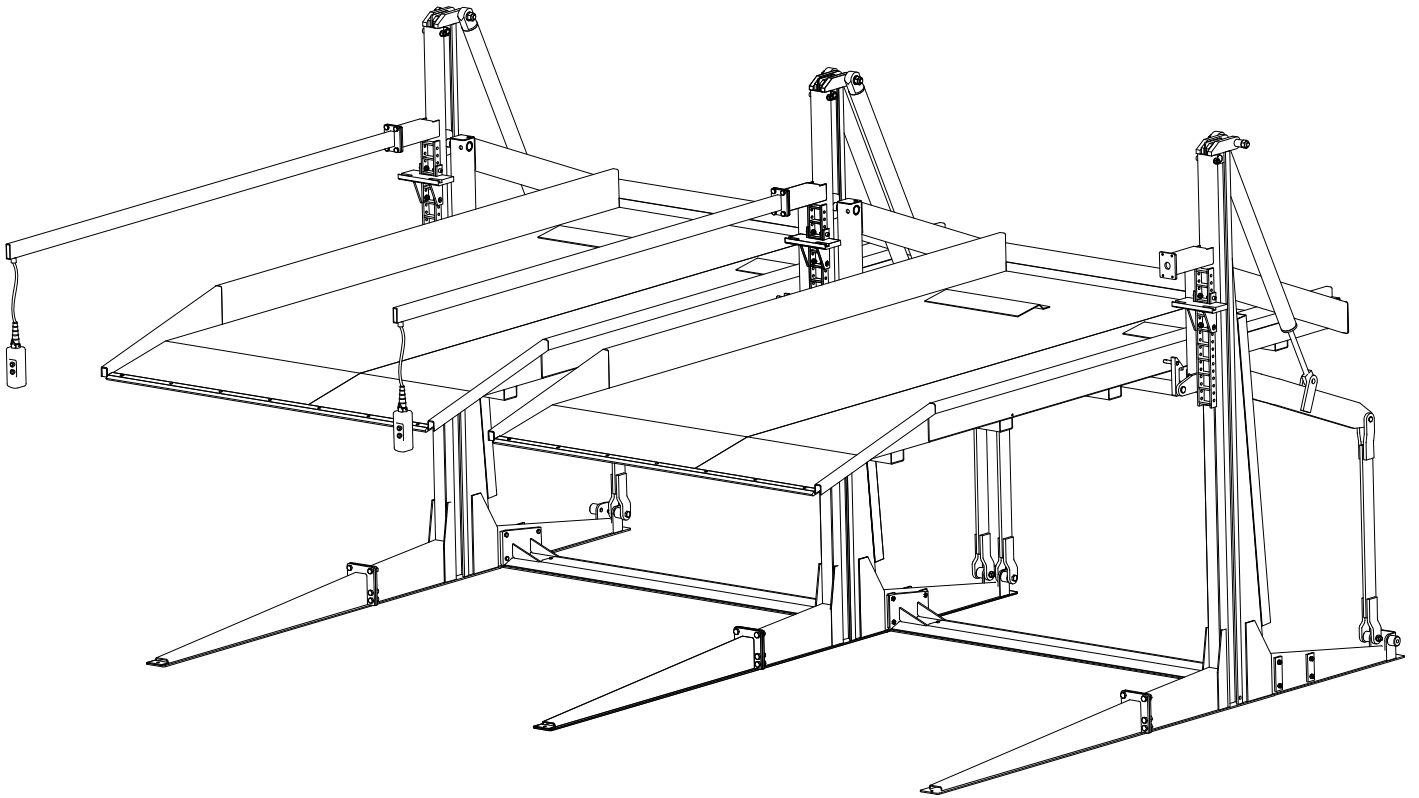


Figure 11.4



Circle location of repairs to be corrected, or that has been corrected on diagram above.

Notes: _____

Owner or Owner's Representative: _____

Operator Name: (Print) _____

License Plate Numbers of Assigned Parking: _____

Inspection Company: _____

Inspector: (Print) _____

Inspectors Signature: _____ Date: _____

Operator Signature: _____ Date: _____

Owners Signature: _____ Date: _____

A copy of this inspection report must be kept on site.



Section-12

Periodic Preventative Maintenance Record Log

Section 12: Periodic Preventative Maintenance Record Log

A Preventative Maintenance Program shall be established by the Owner and is recommended at quarterly intervals, and at a minimum interval of every 6 months. A copy of the Inspection / Maintenance Checklist shall be completed for each machine and attached to this document.

Owner or Employer: _____

Operator Name: _____ Employee # _____

Qualified Technician Conducting Preventative Maintenance: _____

Service Interval: _____ Date: _____

Location of Equipment: _____

Stacker Model: **DP003 Double Car Stacker**

Serial No.'s: Attach a list of the serial numbers for all lifts

Lifting Capacity of Stacker (lbs): _____

Conducted and Supervised By _____ Date _____

Authorized By _____ Date _____

Technician Signature _____ Date _____

Supervisor Signature _____ Date _____

Additional Notes:



Section-13

Technical Specifications

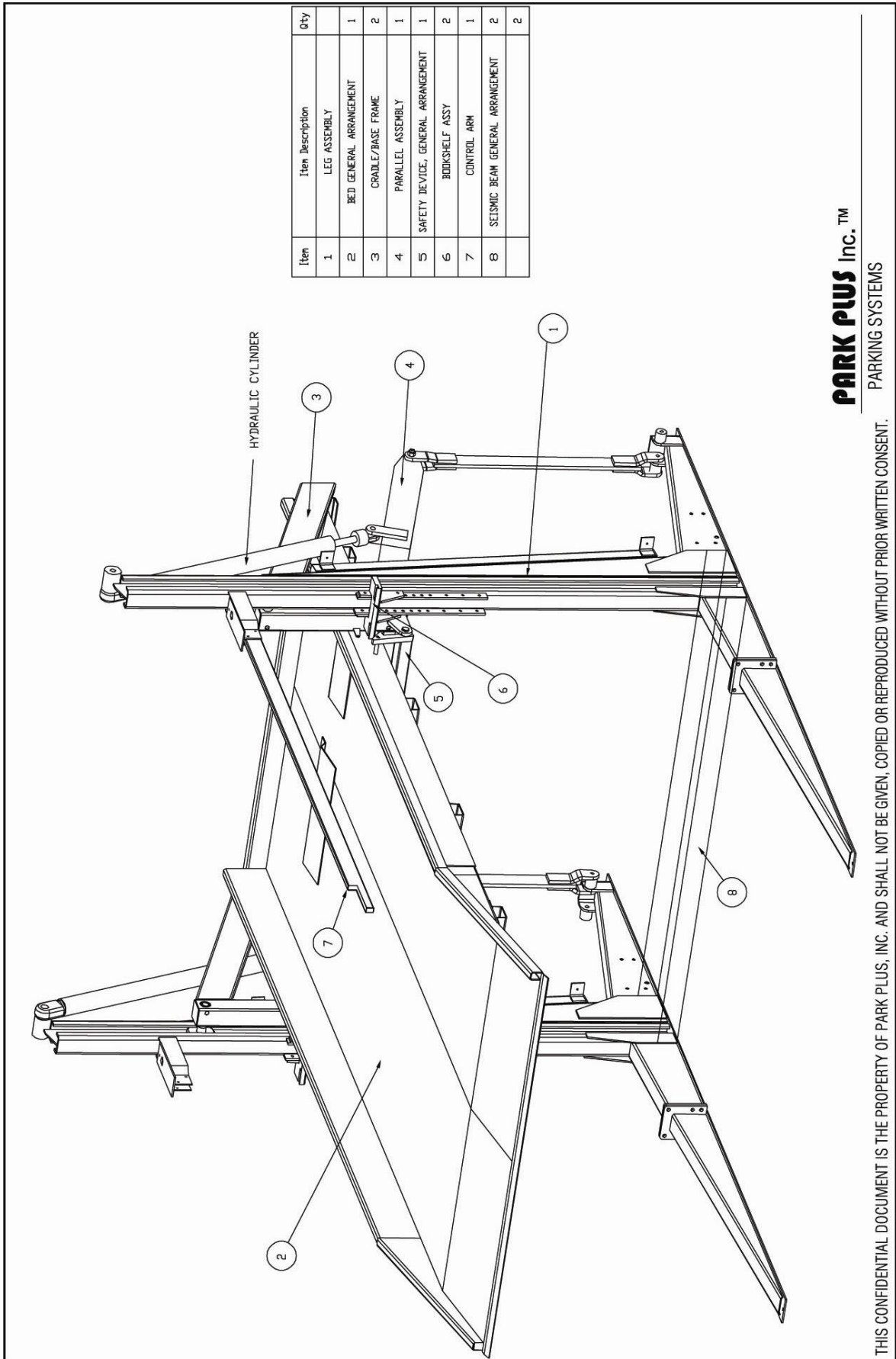


Section 13: Technical Specifications

13.1 Assembly Drawings:

- 13.1.1 Leg Assembly
- 13.1.2 Bed General Arrangement
- 13.1.3 Cradle/Base Frame
- 13.1.4 Parallel Assembly
- 13.1.5 Safety Device, General Arrangement
- 13.1.6 Bookshelf Assembly
- 13.1.7 Control Arm
- 13.1.8 Seismic Beam Arrangement



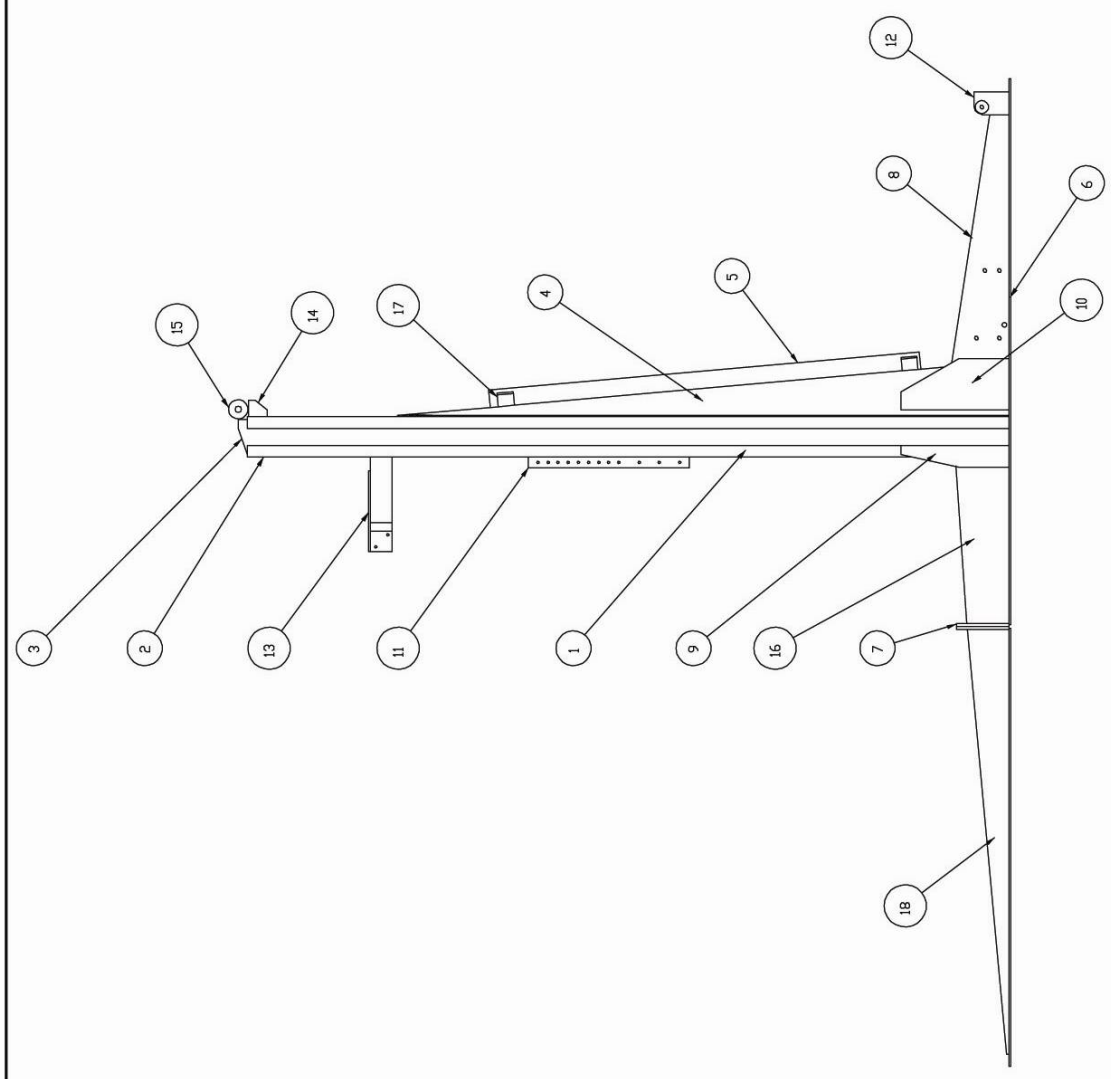


Item	Item Description	Qty
1	LEG ASSEMBLY	
2	BED GENERAL ARRANGEMENT	1
3	CRADLE/BASE FRAME	2
4	PARALLEL ASSEMBLY	1
5	SAFETY DEVICE, GENERAL ARRANGEMENT	1
6	BOOKSHELF ASSY	2
7	CONTROL ARM	1
8	SEISMIC BEAM GENERAL ARRANGEMENT	2

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<p>DATE:</p> <p>DRAWN BY:</p> <p>CHECKED BY:</p>	<p>PROJECT</p> <p>DRAWING</p>	<p style="text-align: center;">  PARK PLUS Inc.™ </p>	





Item	Item Description	Qty
1	LEG VEILMENT	1
2	94x44x10, BENT CHANNEL	2
3	DISTANCER, CHANNEL	1
4	REINFORCING PLATE, COLUMN	1
5	COVER CHANNEL	1
6	BASE PLATE, MAIN	1
7	END PLATE, LEG SPLICE	1
8	SUPPORT, LEGBASE (SHORT)	1
9	REINF. PLATE, SMALL	2
10	REINF. PLATE, LARGE	2
11	BRAKE SUPPORT, GUIDE	2
12	MOVING ARM SUPPORT	1
13	SUPPORT, ACTIVATING ARM	1
14	GUSSET, CYLINDER BUSHING	1
15	BUSHING	1
16	SUPPORT, LEGBASE (SHORT)	1
17	COVER CHANNEL, BRACKET	2
18		1

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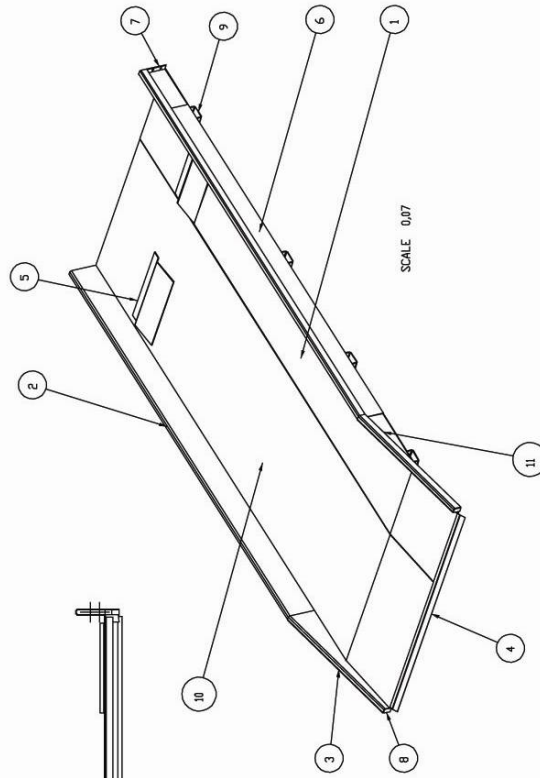
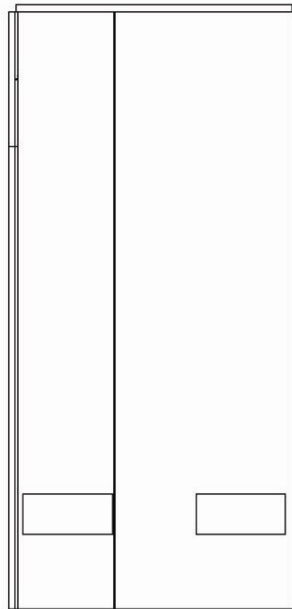
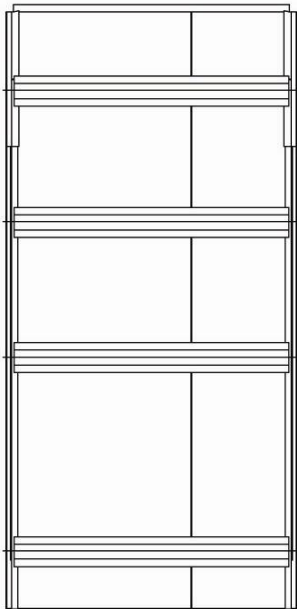
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		PROJECT DOUBLE PARKING SYSTEM TECHNICAL SPECIFICATIONS DP003	DRAWING DESCRIPTION LEG ASSEMBLY
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Item	Item Description	Qty
1	BASE PLATE, DP003 BED	1
2	LIPPED CHANNEL, LATERAL REINFORCEMENT	2
3	FRONT REINFC. CHANNEL	1
4	FRONT LIP, DP003 BED	1
5	WHEEL STOP PLATE	2
6	SIDE REINFC. PLATE	2
7	END CLOSURE PIECE	2
8	FRONT COVER PIECE	2
9	TIP HAT CHANNEL	4
10	BASE PLATE, DP003 BED	1
11	FRONT REINFC. CHANNEL	1



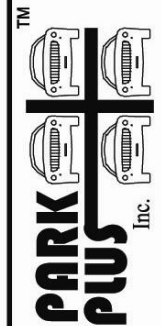
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DP003

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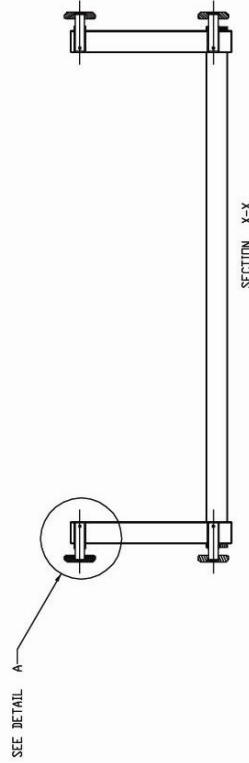
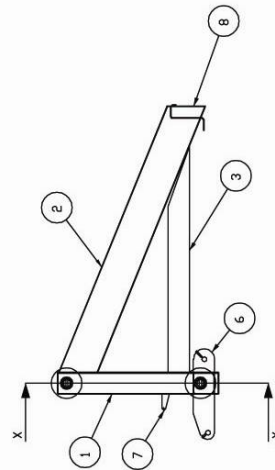
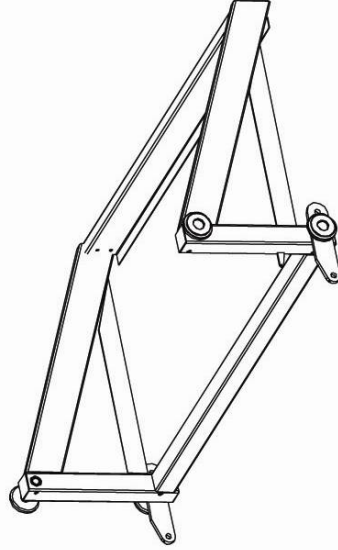
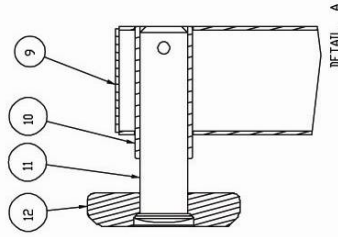
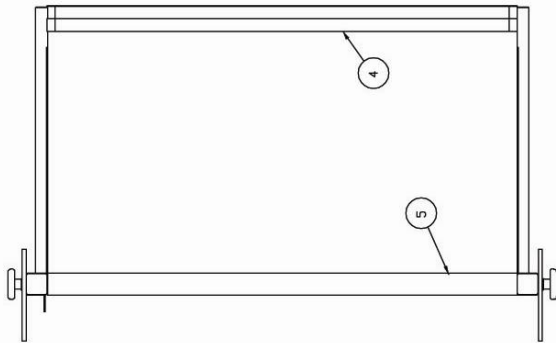
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BED GENERAL ARRANGEMENT

REVISIONS:
0/00/00

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Item	Item Description	Qty
1	PILLAR, BASE FRAME	2
2	SIDE BRACE, BASE FRAME	2
3	STIFFENER PLATE, BASE FRAME	2
4	REAR Z-SECTION, SUPPORT	1
5	CROSS MEMBER, BASE FRAME	1
6	CONNECTION PLATE,	2
7	SUPPORT LUG, BASE FRAME	1
8	TUBE COVER, RECT. TUBE	2
9	TUBE COVER, SQUARE	4
10	BUSHING, BASE FRAME	4
11	ROLLER PIN, BASE FRAME	4
12	ROLLER, BASE FRAME	4



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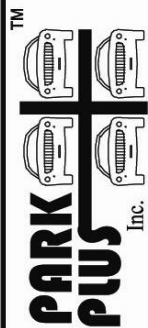
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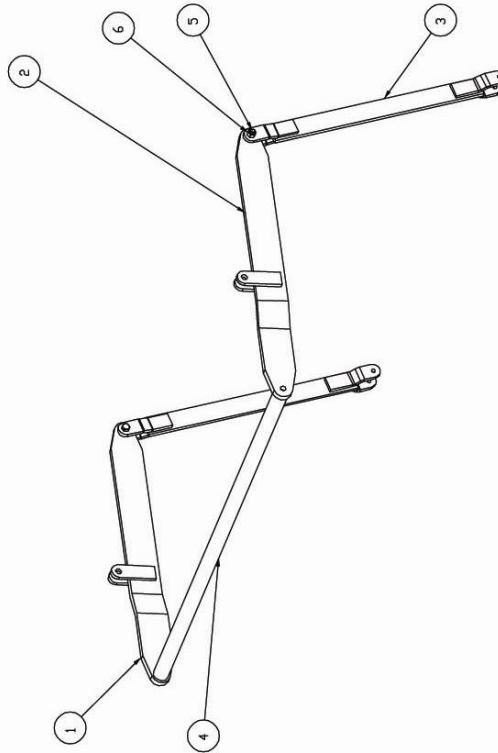
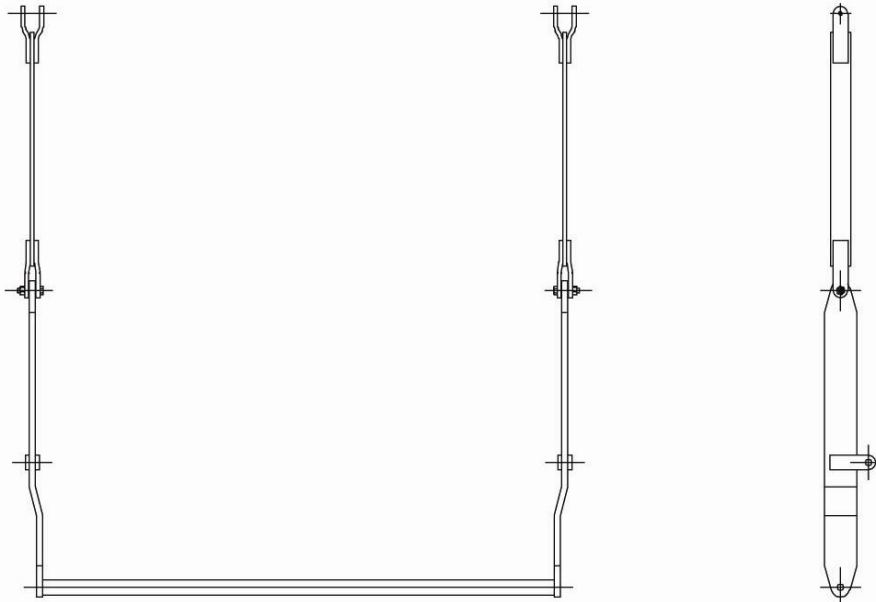
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CRADLE/BASE FRAME

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Item	Item Description	Qty
1	PARALLEL ARM ASSY	1
2	PARALLEL ARM ASSY	1
3	PARALLEL JOINER ASSY	2
4	STARTPART, SPACEMAKER	1
5	HEX BOLT, M20X2.5X90	2
6	NUT, M20X1.5	2



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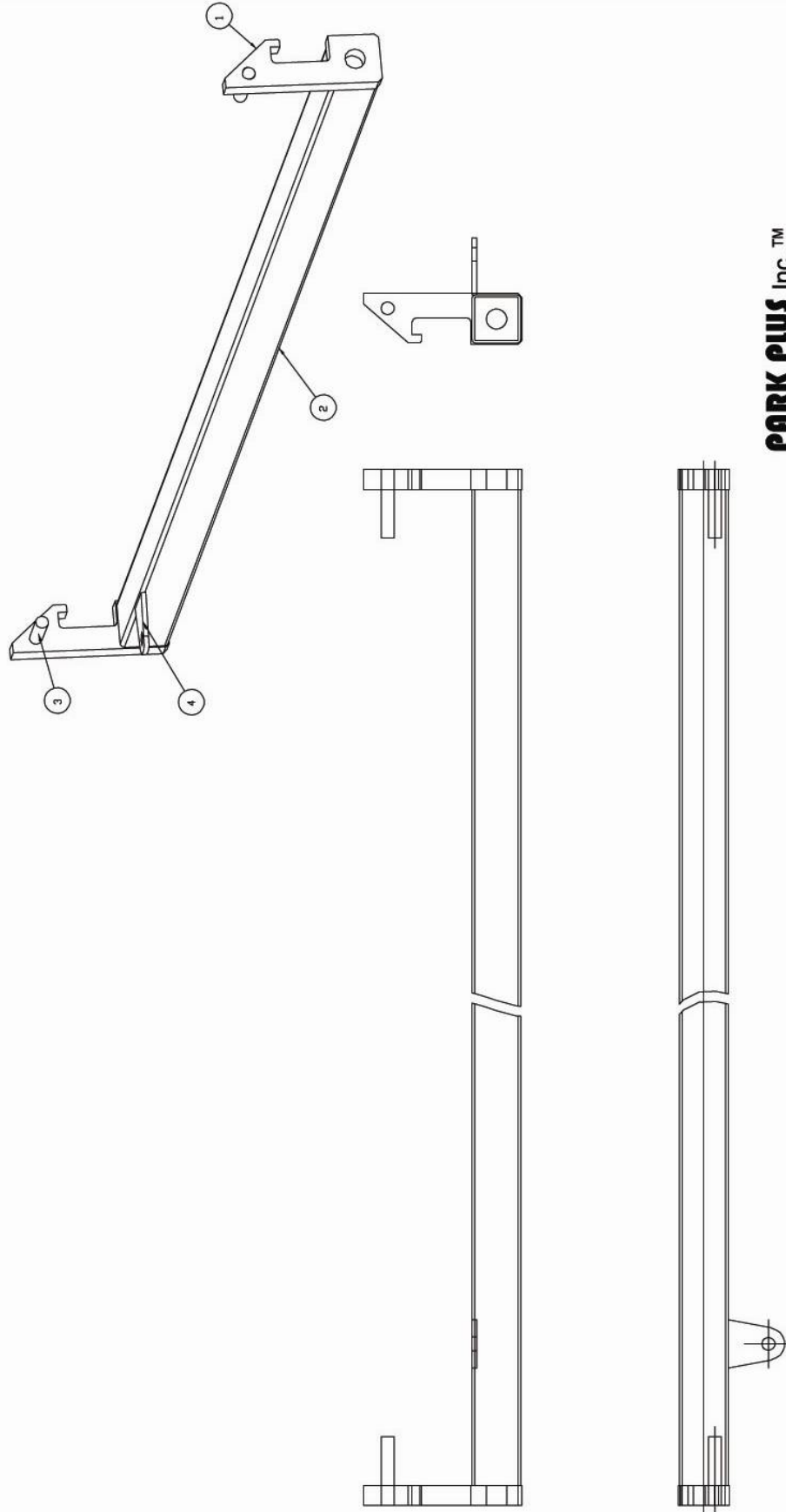
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PARALLEL ASSEMBLY

REVISIONS:
0/00/00

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Item	Item Description	Qty
1	HEK, SAFETY DEVICE	2
2	TUBE, SAFETY DEVICE	1
3	PIN, SAFETY HEK	2
4	SUPPORT BRACKET	1

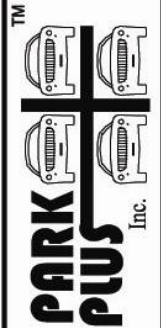


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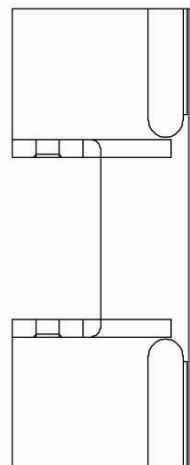
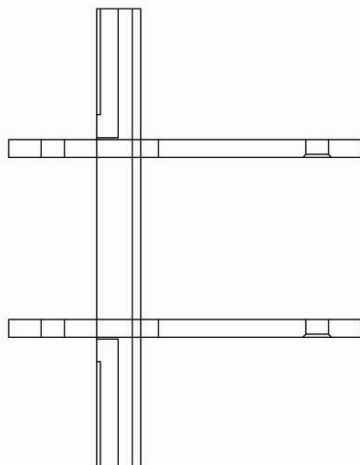
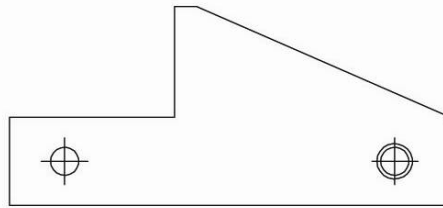
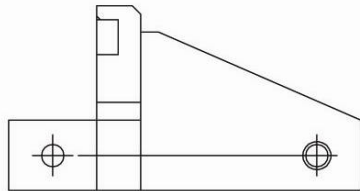
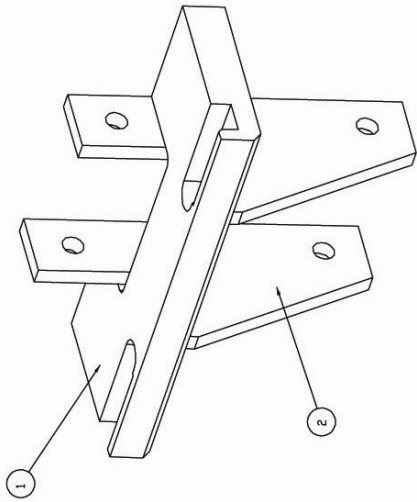
PROJECT: _____ DRAWING: _____

DRAWING DESCRIPTION

SAFETY DEVICE GENERAL ARRANGEMENT
REVISIONS:
Δ 0/00/00

DRAWING NOT TO SCALE

Item	Item Description	Qty
1	PLATE, BOOKSHELF	1
2	MOUNTING FLATE, BOOKSHELF	2



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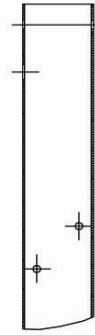
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DRAWING DESCRIPTION
BOOKSHELF ASSEMBLY

REVISIONS:
 0/00/00

DRAWING NOT TO SCALE

Item	Item Description	Qty
1	BODM, CONTROL ARM	1
2	END PLATE	1



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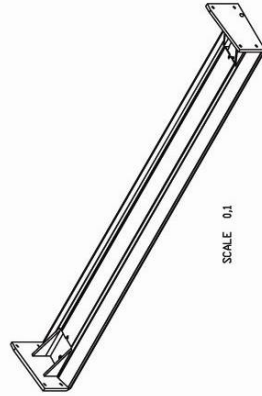
PROJECT **DOUBLE PARKING SYSTEM**
TECHNICAL SPECIFICATIONS
DP003

DRAWING DESCRIPTION
CONTROL ARM

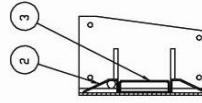
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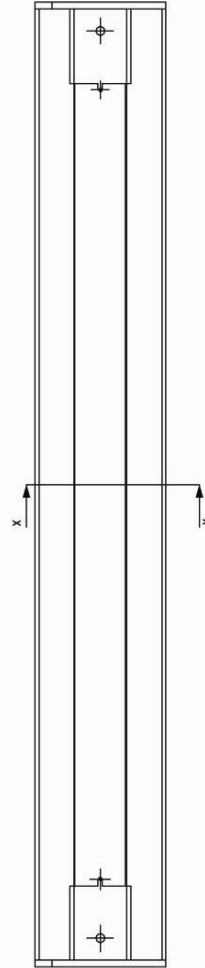
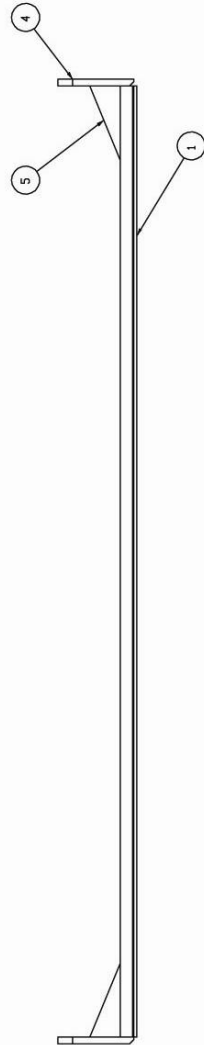
Item	Item Description	Qty
1	BASE PLATE, SEISMIC BEAM	1
2	FILLED PLATE, SEISMIC BEAM	1
3	COVER PLATE, SEISMIC BAR	1
4	END PLATE, SEISMIC BAR	2
5	STIFFENER GUSSET, SEISMIC BAR	4



SCALE 0:1



SECTION X-X



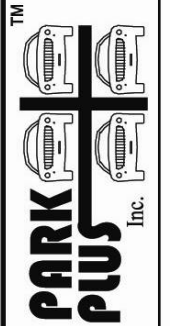
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DATE :
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PROJECT	DRAWING
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DRAWING DESCRIPTION

SEISMIC BEAM GENERAL ARRANGEMENT

REVISIONS:
0/00/00

DRAWING NOT TO SCALE

13.2 Hydraulic Power Pack:

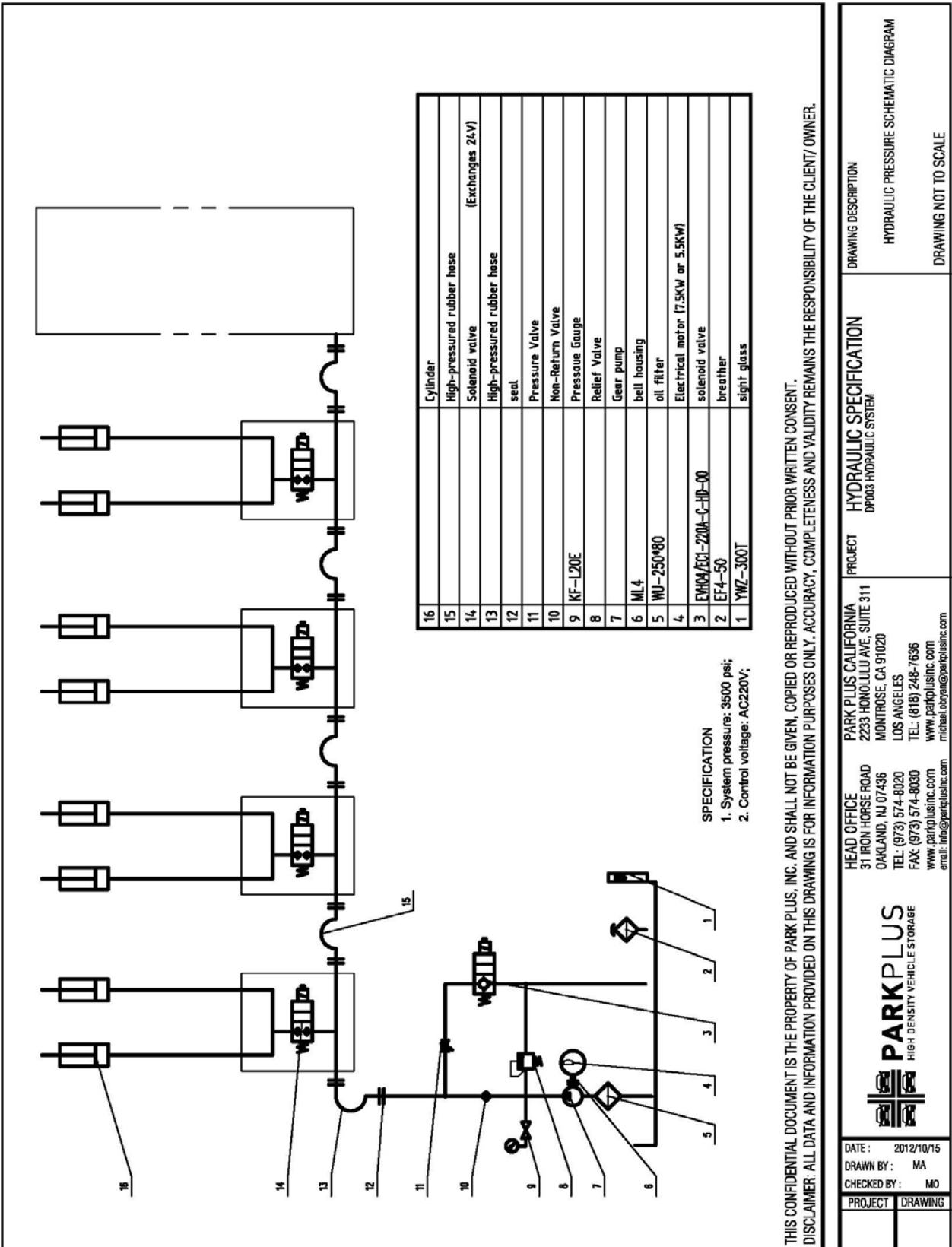
- 13.2.1. Hydraulic Pressure Schematic
- 13.2.2. HPS1 Cut Sheet
- 13.2.3. HPS15 and HPS30 3PH Diagram
- 13.2.4. HPS15 and HPS30 1PH Diagram



<u>ELECTRIC MOTOR</u>	<u>U.S. STANDARD</u>
Horsepower	10
Kilowatt	7.5
Phase	3
Voltage	208-230
Cycles – Hertz	60
Current – Amperage	22
Revolutions Per Minute (RPM)	1,760
Amps Required	40
<u>HYDRAULICS</u>	
Pump Flow – Gallons Per Minute (GPM)	6.6
Max. Pound Per Sq. In. (PSI)	2,500
Max. Kilograms Per Sq. In. (KPI)	362.50
Tank Capacity – Gallons	60/90
Back-Up Power	Manual Hand Pump
Directional Valve	4-way
<u>CONTROLS</u>	
Raise	Control Handle
Lower	Control Handle
Safety Lock Release	Manual
Motor Protection	Overload Switch
Control Voltage	24 Volts DC
Platform Speed	Approx. 25/40 seconds
Capacity	20-30 car lifts per power unit
<u>POWER PACK DIMENSIONS</u>	
Height	46"
Width	20"
Length	42"

See attached Appendix B for additional information:

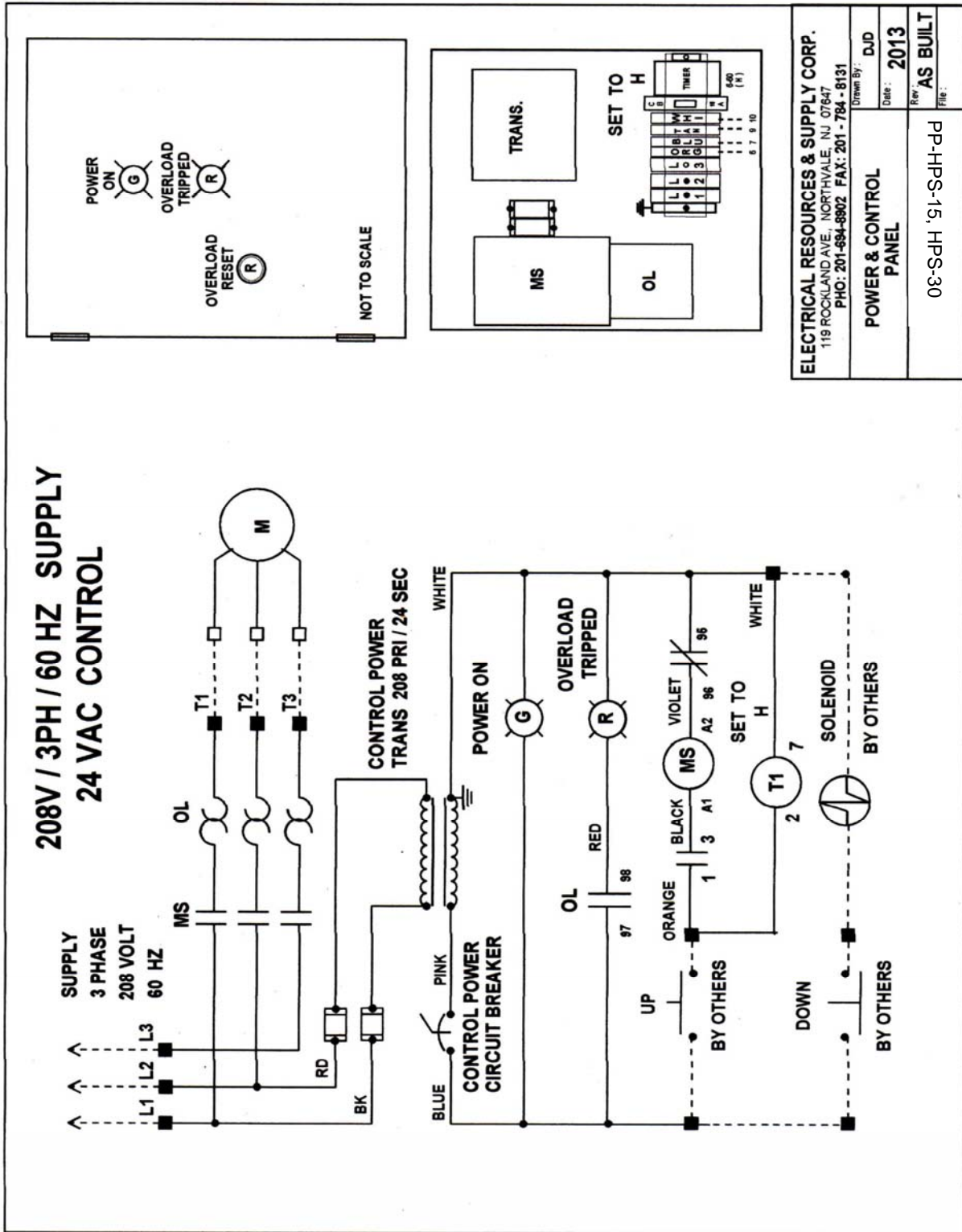
13.2.1. Hydraulic Pressure Schematic



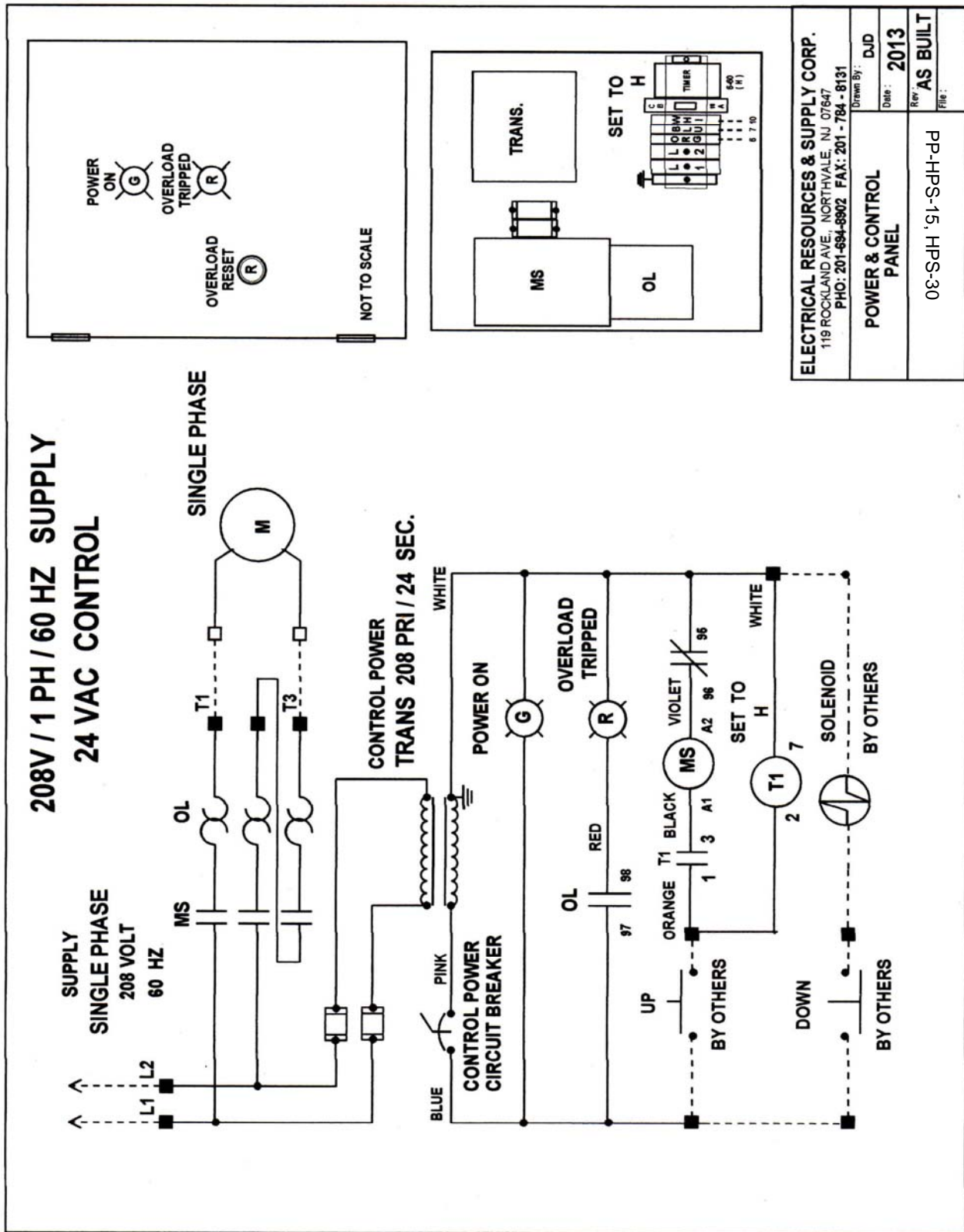
		PROJECT DP003-HYDRAULIC SYSTEM	DRAWING DESCRIPTION HYDRAULIC PRESSURE SCHEMATIC DIAGRAM
HEAD OFFICE 31 IRON HORSE ROAD OAKLAND, NJ 07436 TEL: (973) 574-8020 FAX: (973) 574-8030 www.parkplusinc.com email: info@parkplusinc.com		PROJECT DP003-HYDRAULIC SYSTEM	DRAWING NOT TO SCALE
PARK PLUS CALIFORNIA 2233 HONOLULU AVE, SUITE 311 MONTEROSE, CA 91020 LOS ANGELES TEL: (818) 248-7636 www.parkplusinc.com michael.boyan@parkplusinc.com			
DATE :	2012/10/15		
DRAWN BY :	MA		
CHECKED BY :	MO		
PROJECT	DRAWING		



13.2.3. Park Plus Hydraulic Power Supply Model: HPS15 and HPS30, 3PH Wiring Diagram



13.2.3. Park Plus Hydraulic Power Supply Model: HPS15 and HPS30, 1PH Wiring Diagram





Appendix A

Safety Sensors

Specification:





Appendix B

Hydraulic Power Pack Specifications:





Appendix C

Acceptance

Certificate:





Appendix D

Service Maintenance

Contract

