

HYDRAROLL MARK 21 TWIN ROLLER PNEUMATIC ROLLER TRACK PARTS MANUAL







LOADING AUTOMATION, INC. *Automated Shipping and Receiving Systems*

FOR HYDRAROLL PRODUCT SPARE PARTS ORDERS PLEASE CALL, FAX, OR E-MAIL INQUIRY TO PARTS DEPARTMENT:

Tel. 1-800-264-3184 Fax. 1-910-452-3889 E-mail: parts@loading-automation.com

Orders placed before 3:00PM EST will be shipped that day. If calling after business hours, leave message on Ext. 26

Standard business hours are: M-F 8:00AM - 5:00PM EST

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***DESCRIPTION MARK 21 ROLLER TRACK SYSTEMS** 4 - SERIES 6W (QRTP) 5 **COMMON COMPONENTS** 9 - AIR TANKS & BRACKETS 10 - PALLET STOPS 12 - STAINLESS STEEL CONTROL BOX 14 **OPERATION & MAINTENANCE** 16 - AIR INTEGRITY TEST PROCEDURE 17 - ACETAL STRIP INSTLLATION 18 - TUBING INSTALLATION 19 - DECAL LOCATIONS 20 - LOADING AUTOMATION CONTACTS 22

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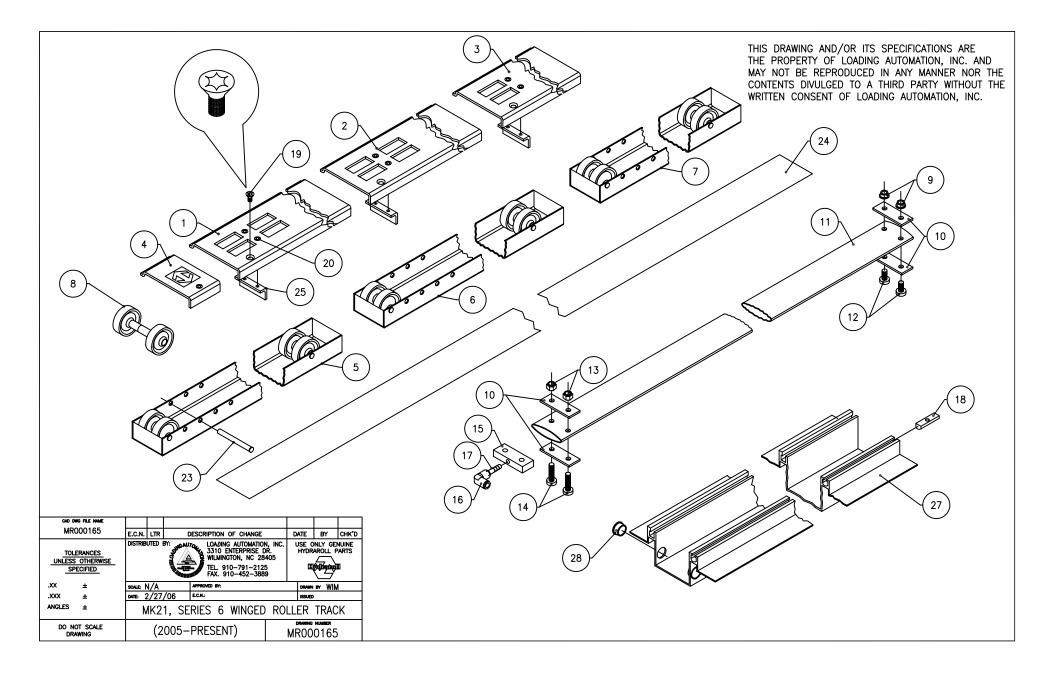
***PAGE NUMBER**



MARK 21 TWIN ROLLER, SERIES 6, WINGED MODULES W/ QUICK RELEASE TOP PLATES







ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1 **	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 6.375" PITCH (10 TWIN ROLLERS)	801020	1
2 **	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 55.81" L; 6.375" PITCH (8 TWIN ROLLERS)	801026	1
4	LOGO PLATE; MK4/MK20/MK21, QR 4 3/8" W x 2 3/8" L	741043	1
5	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK21, SERIES 6; 6.375" PITCH (10 TWIN ROLLERS)	802020	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK21, SERIES 6; 6.375" PITCH (8 TWIN ROLLERS)	802026	1
8	ROLLER; MK20/MK21; 2" DIA X 5/8" WIDE HEAVY DUTY		36
9 * 10*	NUT; 8mm FLANGED CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY ASSEMBLY ONLY	2 4
11	AIR BAG; 2 1/2" FLAT RED STANDARD	760006	10'-0"
12*	SCREW; 8mm-20 x 16mm	ASSEMBLY ONLY	2
13* 14*	NYLON LOCKNUT; 8mm SCREW; 8mm–20 x 30mm	ASSEMBLY ONLY ASSEMBLY ONLY	2 2
15*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	773010	1
17*	BARBED INSERT FITTING NUT BAR; 6mm	763015 944004	1 9
19	TOP PLATE SCREW; 6mm x 15mm TORX DRIVE (T30)	943003	9
20	SCREW; M5 x 11 POSI DRIVE	940027	4
23	ROLLER PIN; MARK 20; 2.75" LONG ACETAL STRIP; 2 –13/16" WIDE	743001 714007	24 11'-0"
25	GUIDE ANGLÉ	741038	4
26 27	10'–0" AIR BAG ASSY (ITEMS 9–17) 2.5" FLAT; RED MAIN CHANNEL; M21,S6W 10'–0" L WINGED	760061 804005	1 1
27	AIR LINE GROMMET, MAIN CHANNEL	714004	2
N	MODULE; MK21; S6W; 10'-0"; 6.375"P COMPLETE; 5/16" EL	BOW 800014	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12–17) INCLUDES ITEMS 20 AND 25	762004	1
PLEASE REFEREI	NCE DRAWING MR000165 FOR ASSEMBLY		
CAD DWG FILE NAME MR000165A	A UPDATED ITEMS #1, 2, 4, 5, 6, & 8 3/14/06 WM		
Distributed by: Description of change Date Bit Date Bit Date Tolerances UNLESS OTHERWISE Image: State of the state o			
SPECIFIED FAX. 910-452-3889			
.XX ± .XXX ±	SCALE: N/A APPROVED BY: DRAWN BY WIM DATE: 2/27/06 E.C.N.: ISSUED		
ANGLES ±	MK21,SERIES 6W; QRTP (2005-PRESENT)		
DO NOT SCALE DRAWING	10'-0" MODULES MR000165A		

ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1 **			
• •	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 6.375" PITCH (10 TWIN ROLLERS)	801020	1
1 **	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 3.16" PITCH (19 TWIN ROLLERS)	801016	1
2 **	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 6.375" PITCH (10 TWIN ROLLERS)	801020	1
2 **	TOP PLATE; MK20/MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 3.16" PITCH (19 TWIN ROLLERS)	801016	1
4	LOGO PLATE; MK4/MK20/MK21, QR 4 3/8" W x 2 3/8" L	741043	1
5**	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK20/MK21, SERIES 6; 6.375" PITCH (10 TWIN ROLLERS)		1
5**	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK20/MK21, SERIES 6; 3.16" PITCH (19 TWIN ROLLERS)	802016	1
6**	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK20/MK21, SERIES 6; 6.375" PITCH (10 TWIN ROLLERS)	802020	1
6**	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK20/MK21, SERIES 6; 3.16" PITCH (19 TWIN ROLLERS)	802016	1
8	ROLLER; MK20/MK21; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	40
9*		ASSEMBLY ONLY	2
10*	· /	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" FLAT RED STANDARD	760006	10'-6"
12*		ASSEMBLY ONLY	2
13*		ASSEMBLY ONLY	2
14* 15*		ASSEMBLY ONLY	2 1
16*	RUBBER INSERT PLUG; 2 1/2" WIDE ELBOW; 5/16" OD	763007 773010	1
17*	BARBED INSERT FITTING	763015	1
18	NUT BAR; 6mm	944004	9
19	TOP PLATE SCREW; 6mm x 15mm TORX DRIVE (T30)	943003	9
20	SCREW; M5 x 11 POSI DRIVE	940027	8
23 24	ROLLER PIN; MARK 20; 2.75" LONG ACETAL STRIP; 2 -13/16" WIDE	743001 714007	24 11'-6"
25	GUIDE ANGLE	741038	4
26	10'-6" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760060	1
27	MAIN CHANNEL; MK21,S6 10'-6" L WINGED	804006	1
28	AIR LINE GROMMET, MAIN CHANNEL	714004	2
N	MODULE; MK21; S6W; 10'–6"; 6.375"P COMPLETE; 5/16" ELB MODULE; MK21; S6W; 10'–6"; 3.16"P COMPLETE; 5/16" ELBC	OW 800017 DW 800016	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17) INCLUDES ITEMS 20, 21, AND 25	762004	1
PLEASE REFEREI	NCE DRAWING MR000165 FOR ASSEMBLY		
CAD DWG FILE NAME MR000165B	A UPDATED ITEMS #1, 2, 4, 5, 6, & 8 3/14/06 WIM E.C.N. LTR DESCRIPTION OF CHANGE DATE BY CHK'D		
TOLERANCES UNLESS OTHERWISE SPECIFIED	DISTRIBUTED BY: LOADING AUTOMATION, INC. STRIBUTED BY: LOADING AUTOMATION, INC. USE ONLY GENUINE HYDRAROLL PARTS TEL. 910-791-2125 TEL. 910-791-2125 TEL. 910-791-2125		
.xx ±	SOLE: N/A APPROVED BY: DRAWN BY WIM		
.XXX ± ANGLES ±	MR21,SERIES 6W; QRTP (2005-PRESENT)		
DO NOT SCALE			
DRAWING	10-6 MODULES MR000165B		

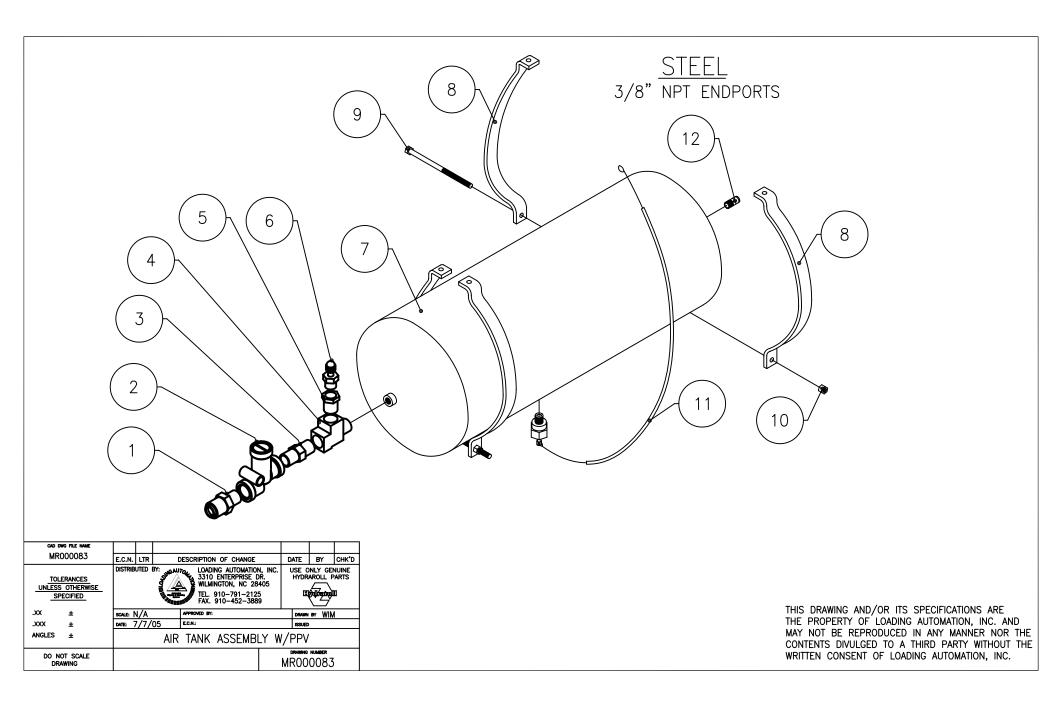
ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1 **	TOP PLATE; MK20/MK21, SERIES 6; QR	801016	1
1 **	4 3/8" W x 61.81" L; 3.16" PITCH (19 ROLLERS) TOP PLATE; MK20/MK21, SERIES 6; QR	801020	1
2 **	4 3/8" W x 61.81" L; 6.375" PITCH (10 ROLLERS) TOP PLATE; MK20/MK21, SERIES 6; QR	801016	1
2 **	4 3/8" W x 61.81" L; 3.16" PITCH (19 ROLLERS) TOP PLATE; MK20/MK21, SERIES 6; QR	801020	1
3 **	4 3/8" W x 61.81" L; 6.375" PITCH (10 ROLLERS) TOP PLATE; MK20/MK21, SERIES 6; QR	801021	1
3 **	4 3/8" W X 30" L; 3.16" PITCH (9 ROLLERS) TOP PLATE; MK20/MK21, SERIES 6; QR	801022	1
4	4 3/8" W X 30" L; 6.5" PITCH (5 ROLLERS) LOGO PLATE; MK4/MK20/MK21, QR	741043	1
5	4 3/8" W x 2 3/8" L ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS)	802016	2
5	MARK 21, SERIES 6; 3.16" PITCH (19 ROLLERS) ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS)	802020	1
6	MARK 21, SERIES 6; 6.375" PITCH (10 ROLLERS) ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 6; 3.16" PITCH (19 ROLLERS)	802016	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS)	802020	1
7	MARK 21, SERIES 6; 6.375" PITCH (10 ROLLERS) ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS)	802021	1
7	MARK 21, SERIES 6; 3.16 PITCH (9 ROLLERS) ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 6; 6.375" PITCH (5 ROLLERS)	802022	1
8	ROLLER; MK20/MK20; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	50 or 94
9 * 10*	NUT; 8mm FLANGED CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY ASSEMBLY ONLY	2 4
11	AIR BAG; 2 1/2" FLAT RED STANDARD	760006	13'-0"
12*	SCREW; 8mm-20 x 16mm	ASSEMBLY ONLY	2
13*	NYLON LOCKNUT; 8mm	ASSEMBLY ONLY	2
14*	SCREW; 8mm-20 x 30mm	ASSEMBLY ONLY	2
15* 16*	RUBBER INSERT PLUG; 2 1/2" WIDE ELBOW; 5/16" OD	763007 773010	1 1
17*	BARBED INSERT FITTING	763015	1
18	NUT BAR; 6mm	944004	12
19	TOP PLATE SCREW; 6mm x 15mm TORX DRIVE (T30)	943003	12
20	SCREW; M5 x 16 TORX DRIVE	940027	12
21	NUT; BINX; M5	941017	N/A 29 or 57
23 24	ROLLER PIN; MARK 20; 2.75" ACETAL STRIP; 2 -13/16" WIDE	743001 714007	14"-0"
25	GUIDE ANGLE	741038	6
26	13'–0" AIR BAG ASSY (ITEMS 9–17) 2.5" FLAT; RED	760057	1
27	MAIN CHANNEL; MK21, S6W, 13'-0" L WINGED	804001	1
28	AIR LINE GROMMET	714004	2
	MODULE; MK21; S6W; 13'-0"; 3.16"P COMPLETE	800022	
	MODULE; MK21; S6W; 13'-0"; 6.375"P COMPLETE	800011	
* **	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17) INCLUDES ITEMS 20, 21, AND 25	762004	1
PLEASE REFEREN	ICE DRAWING MR000165 FOR ASSEMBLY		
CAD DWG FILE NAME	UPDATED ITEMS #1, 2, 3, 4, 5, 6, 7, & 8 3/14/06 WIM		
MR000165C	E.C.N. LTR DESCRIPTION OF CHANGE DATE BY CHK'D		
TOLERANCES UNLESS OTHERWISE SPECIFIED	DISTRIBUTED BY: LOADING AUTOMATION, INC. STRIBUTED BY: LOADING AUTOMATION, INC. STRIBUTED BY: LOADING AUTOMATION, INC. MILLINGTON, NC 28405 TEL 910-791-2125 FAX. 910-452-3889		
.xx ±	SCALE: N/A APPROVED BY: DRAWN BY WIM		
.XXX ± ANGLES ±	<u>ыме: 2/27/06</u> есл.: Issued MK21, SERIES 6W; QRTP (2005-PRESENT)		
DO NOT SCALE DRAWING	13'-0" MODULES MR000165C		



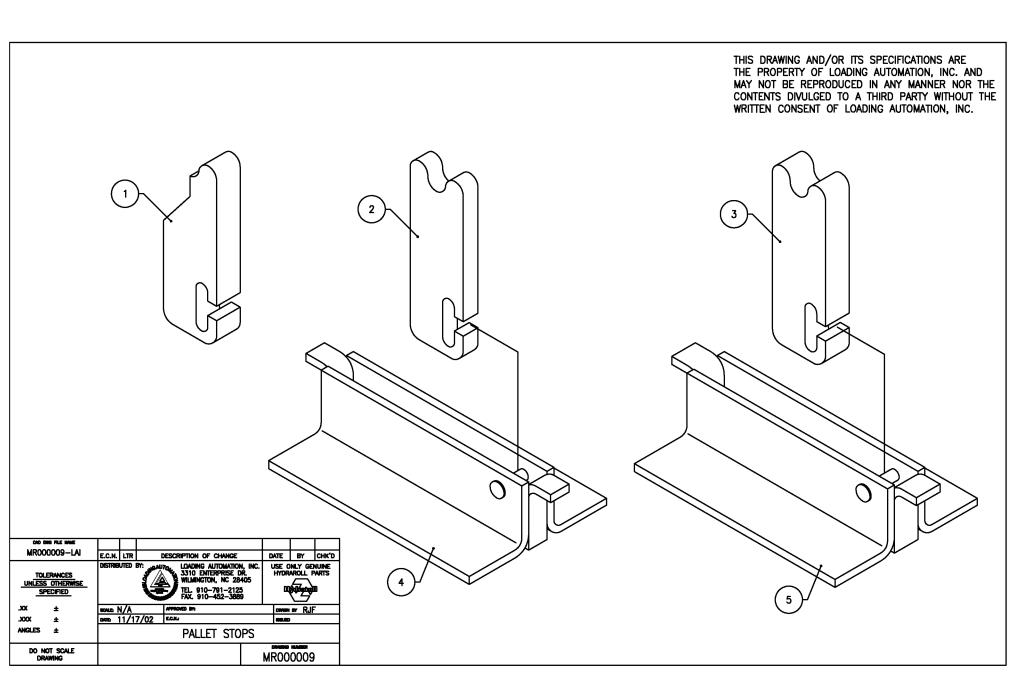
COMMON COMPONENTS ROLLER TRACK SYSTEM



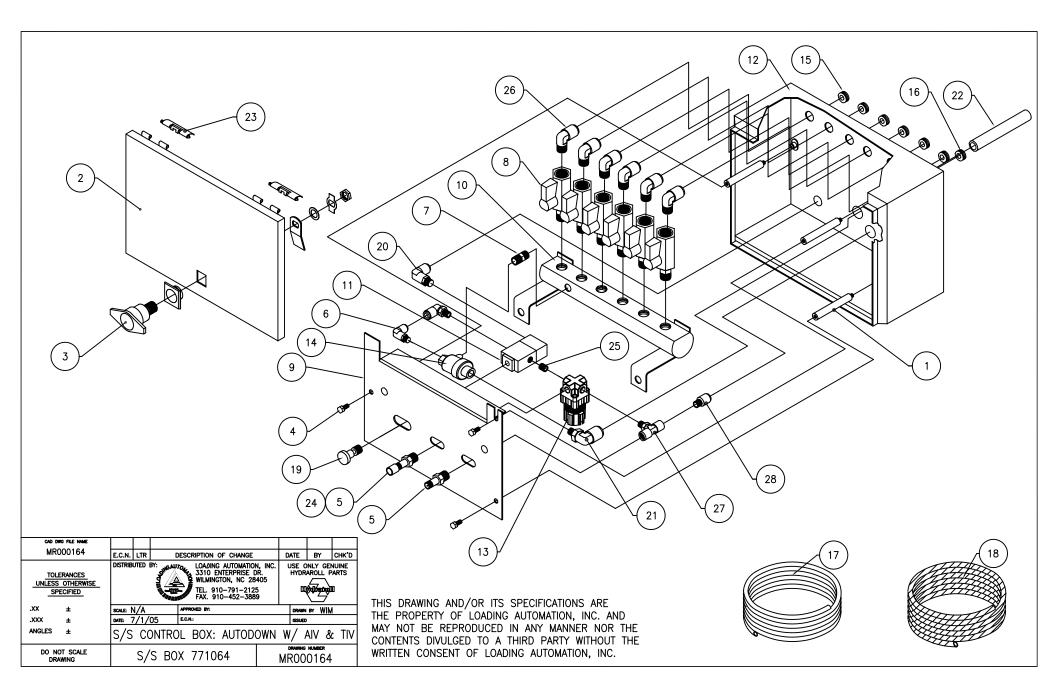




ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
3 4 TEE; B 5 RF 6 AU 7 ST 8	STUD CPLG; D.O.T.; 3/8 NPT X 3/8 TUBE JRE PROTECTION VALVE (PPV) BODY; 3/8" X 3/8" NPT NIPPLE: HEX; BRASS 3/8" NPT X 3/8" NPT RASS; 3/8" MALE X 3/8" FEMALE X 3/8" FEMALE NPT EDUCING BUSHING; BRASS; 3/8" NPT – 1/8" NPT X. INFLATE VALVE (AIV); SCHRADER TYPE; 1/8" NPT EEL AIR TANK RESERVOIR W/ 3/8" NPT ENDPORTS BRACKET; STEEL 2 PC.; 12" STEEL BOLT; HEX HEAD; 3/8" FULL THREAD X 6" LONG NUT; NYLOC; 3/8" DRAIN VALVE; 1/4" NPT; WITH CABLE STUD COUPLING; 5/16" T x 3/8" NPT	775010 772004 774017 774016 774015 772028 770002 770003 770004 941009 770008 773017	1 1 1 1 1 2 2 2 1 1
	AIR TANK ASSEMBLY (ITEM #7–12) JUNE 1996–PRESENT	770000	1
PRESSUR	SURE PROTECT ASSY W/ AIV SCHRADER (ITEM $\#1-6$) E PROTECT VALVE ASSY W/O AIV SCHRADER (ITEM $\#1-3$ USED WHEN AIV SCHRADER VALVE IS IN CONTROL BOX		1 1
CAD DWG FILE NAME	A CHANGED PART# OF PPV BODY - ITEM #2 10/21/05 RF		
MR000082A	E.C.N. LTR DESCRIPTION OF CHANGE DATE BY CHK'D		
TOLERANCES UNLESS OTHERWISE SPECIFIED	DISTRIBUTED BY: LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL 910-791-2125 FAX. 910-452-3889		
.XX ± .XXX ±		WING AND/OR ITS SPECI PERTY OF LOADING AUTO	
ANGLES ±	AIR TANK ASSEMBLY W/PPV MAY NOT	BE REPRODUCED IN AN	Y MANNER NOR THE
DO NOT SCALE DRAWING		S DIVULGED TO A THIRD CONSENT OF LOADING A	



ITEM NUMBER	DESCRIPTION	I	PART NUMBER	NUMBER REQUIRED
3A 3B REPLA 4 P, 4 PALLET	REPLACEMENT BLADE; NOTO REPLACEMENT BLADE; S REPLACEMENT BLADE; 5/8" TH REPLACEMENT BLADE; STAN ACEMENT BLADE; STANDARD; 1 ALLET STOP ASSY w/ 5/8" TH STOP ASSY w/ 5/8" THK BL ALLET STOP ASSY w/STD 1" T STOP ASSY w/STD 1" THK BL	5/8" THICK ICK; WINGED TRAC DARD; 1" THICK " THICK; WINGED HK BLADE (incl. 2 ADE; WING TRACK	710007 TRACK 710011 A) 710003 (incl. 2B) 710014	1 1 1 1 1 1 1 1
CAD DWG FILE NAME				
MR000009A-LAI	E.C.N. LTR DESCRIPTION OF CHANGE DISTRIBUTED BY: LOADING AUTOMATION, IN	DATE BY CHK'D IC. USE ONLY GENUINE		
TOLERANCES UNLESS OTHERWISE SPECIFIED	310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL 910-791-2125 FAX. 910-452-3889	HYDRAROLL PARTS		
.xx ± .xxx ±	scale: N/A Approved by: date: 11/15/02 E.c.n.:	DRAWN BY RJF Issued	THIS DRAWING AND/OR ITS SP THE PROPERTY OF LOADING A	UTOMATION, INC. AND
ANGLES ±	PALLET STOPS		MAY NOT BE REPRODUCED IN CONTENTS DIVULGED TO A THI	IRD PARTY WITHOUT THE
DO NOT SCALE DRAWING		MR000009A	WRITTEN CONSENT OF LOADING	3 AUTOMATION, INC.



ITEM NUMBER	DESCRIPTION	PART NUMBER	
28	 PILLAR; FACE PLATE MOUNTING; 97mm LONG S/S LID; COMPLETE WITH SEAL TEE HANDLE; CHROME; W/ LATCH FACE PLATE MOUNTING BOLT SCHRADER VALVE; 1/8" BSP SWIVEL ELBOW ADAPTER; 5/16" T x 1/8" P STRAIGHT ADAPTOR; 1/4" P x 1/4" P TRACK ISOLATION VALVE FACE PLATE (PREDRILLED) MANIFOLD, TRACK ISOLATION VALVE (TIV) W/BRACKET AUTO-DOWN CONTROL VALVE (incl. 19) S/S CONTROL BOX, PRE-DRILLED W/ DECAL PRESSURE REGULATOR QUICK EXHAUST VALVE (QEV) GROMMET; 8mm GROMMET; 22mm NYLON TUBING; 5/16" OD NYLON TUBING; 5/16" OD NYLON TUBING; D.O.T.; 3/8" OD KNOB; AUTO-DOWN VALVE ELBOW; D.O.T; 1/8" X 3/8" T ELBOW; SWIVEL; 1/4" X 12mm TUBE TUBE, 12mm (.50") O.D. REPLACEMENT HINGE (incl. pin and clips) PRESSURE GUARD INDICATOR NIPPLE; HEX; 1/8" X 1/8" ELBOW; 5/16" T - 1/4" NPT TEE; 1/8" FEMALE X 1/8" MALE X 1/8" FEMALE NPT STUD COUPLING: 1/8" NPT X 5/16 TUBE 	772057 778023 773022 773023 773001	3 1 1 3 2 3 1 6 1 1 1 1 1 1 3 8 1 1 4 5 REQ'D 1 1 1 1 2 6 1 1 2 6 1 1 1
СС	ONTROL BOX ASSY: S/S AUTODOWN, AIV & TIV INCLUDED	771064	1
CAD DWG FILE NAME	CONTROL BOX MOUNTING BRACKET (2 PC.)	711009	1
MR000164A <u>TOLERANCES</u> <u>UNLESS OTHERWIS</u> <u>SPECIFIED</u> .XX ±	TEL 910-791-2125 Elevent Elevent Fax. 910-452-3889 Elevent Fax. Provide the second secon	ing and/or its spec	
.XXX ± ANGLES ± DO NOT SCALE	S/S CONTROL BOX: AUTODOWN W/ AIV & TIV CONTENTS WRITTEN C	ERTY OF LOADING AUT BE REPRODUCED IN A DIVULGED TO A THIRE ONSENT OF LOADING /	NY MANNER NOR THE PARTY WITHOUT THE
DRAWING	S/S BUX //1064 MR000164A		



OPERATION & MAINTENANCE ROLLER TRACK SYSTEM





Hydraroll Pneumatic Roller Track System. To be completed on all finished units.

Test procedure:

- 1. Charge Hydraroll air reservoir(s) by operating truck or tractor engine on an air brake vehicle or by 12V DC compressor controlled by ignition switch.
- 2. Operate engine on air brake vehicle until a pressure of 100 psi is reached or the 12V DC compressor switches off (approximate time is 5 minutes for 12V DC compressor). Turn key to off position.
- 3. (Inflate)--Raise all track rollers.
- 4. Check pressure in Hydraroll control box. Pressure must be identical to previous reading. Record reading.
- 5. Re-check system after 12 hour period. Record reading.
- 6. A pressure differential of 10% or less in a 12-hour period is acceptable. If within 10% factor, check block in Hydraroll Performance Certificate and drop all rollers.

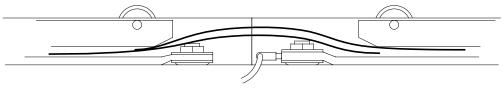
If greater than 10% factor, isolate, fix leak, and re-test unit.

<u>NOTE</u>: The pressure loss must be the <u>equivalent</u> of a 10% loss or less over a 12-hour period.

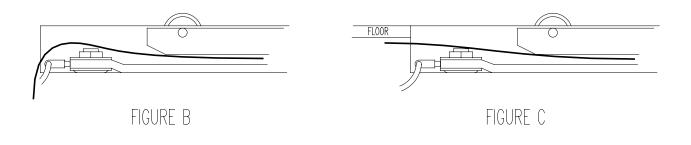
ACETAL INSTALLATION INSTRUCTIONS

WITH ACETAL IN TRACK FROM FACTORY

- 1. Install the track modules per installation instructions.
- 2. Overlap the acetal strip from each module (Figure A).
- 3. At the rear of the body, fold the acetal strip down to cover and seal the end of the module (Figure B).
- 4. At the front of the body, allow the acetal strip to extend under the floor (Figure C).

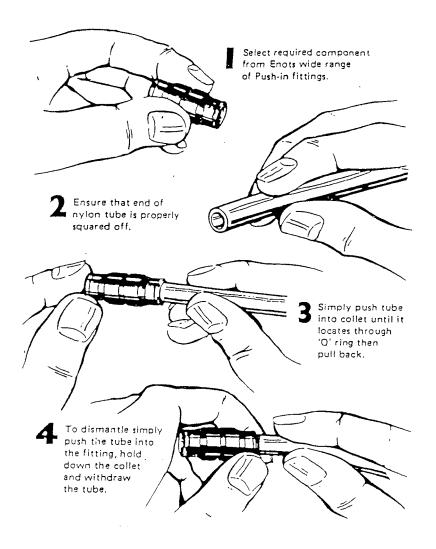






TUBING INSTALLATION

METHOD OF ASSEMBLY



DECAL LOCATION DRAWINGS

- 715005-Forklift Warning Decal
- Locate decal in unobstructed view on inside rear sidewall.



- 715007-Warning Decal
- Locate decal on flat body surface adjacent to control box.

WARNING

FORK LIFTS PROHIBITED WHILE ROLLERS ARE RAISED. DO NOT WALK ON RAISED ROLLERS. DRIVE VEHICLE WITH ROLLERS LOWERED WHETHER OR NOT PALLETS ARE LOADED. OPERATE ROLLER SECTION UP OR DOWN ONLY IF VEHICLE IS

OPERATE ROLLER SECTION UP OR DOWN ONLY IF VEHICLE IS PROPERLY PARKED AND POSITIONED FOR LOADING OR UNLOADING. CHECK THAT VEHICLE FLOOR IS CLEAR OF PERSONNEL BEFORE RAISING ROLLERS.



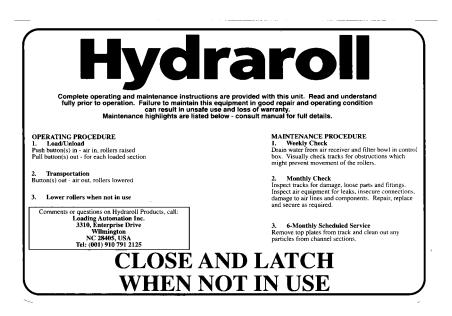
MATIC BOLLER TRACK WWW.hvdraroll.com

DECAL LOCATION DRAWINGS

- 715032-Airbrake Interlock Decal (optional)
- Locate decal on or near the pneumatic control box.



- 715003-Operational Procedure/Maintenance Procedure
- Locate decal on the face of the Air Control Box.





Loading Automation Contacts

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