

HYDRAROLL MARK 21 TWIN ROLLER PNEUMATIC ROLLER TRACK PARTS MANUAL



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MARK 21 ROLLER TRACK SYSTEM

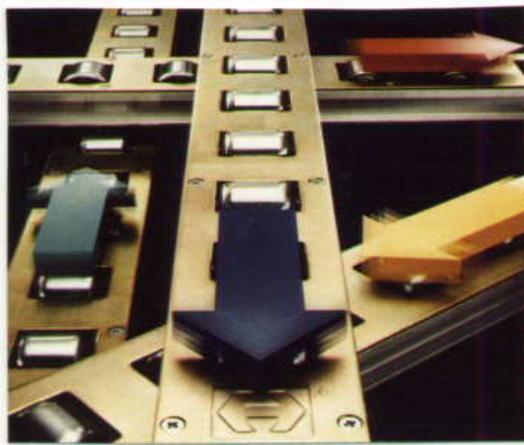
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CLICK ON THE DESCRIPTION OR PAGE NUMBER.**



MARK 21, SERIES 6

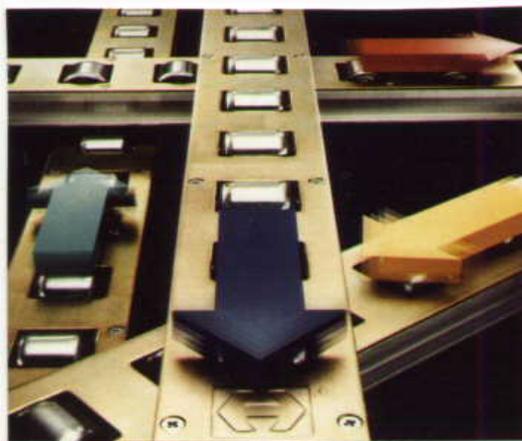


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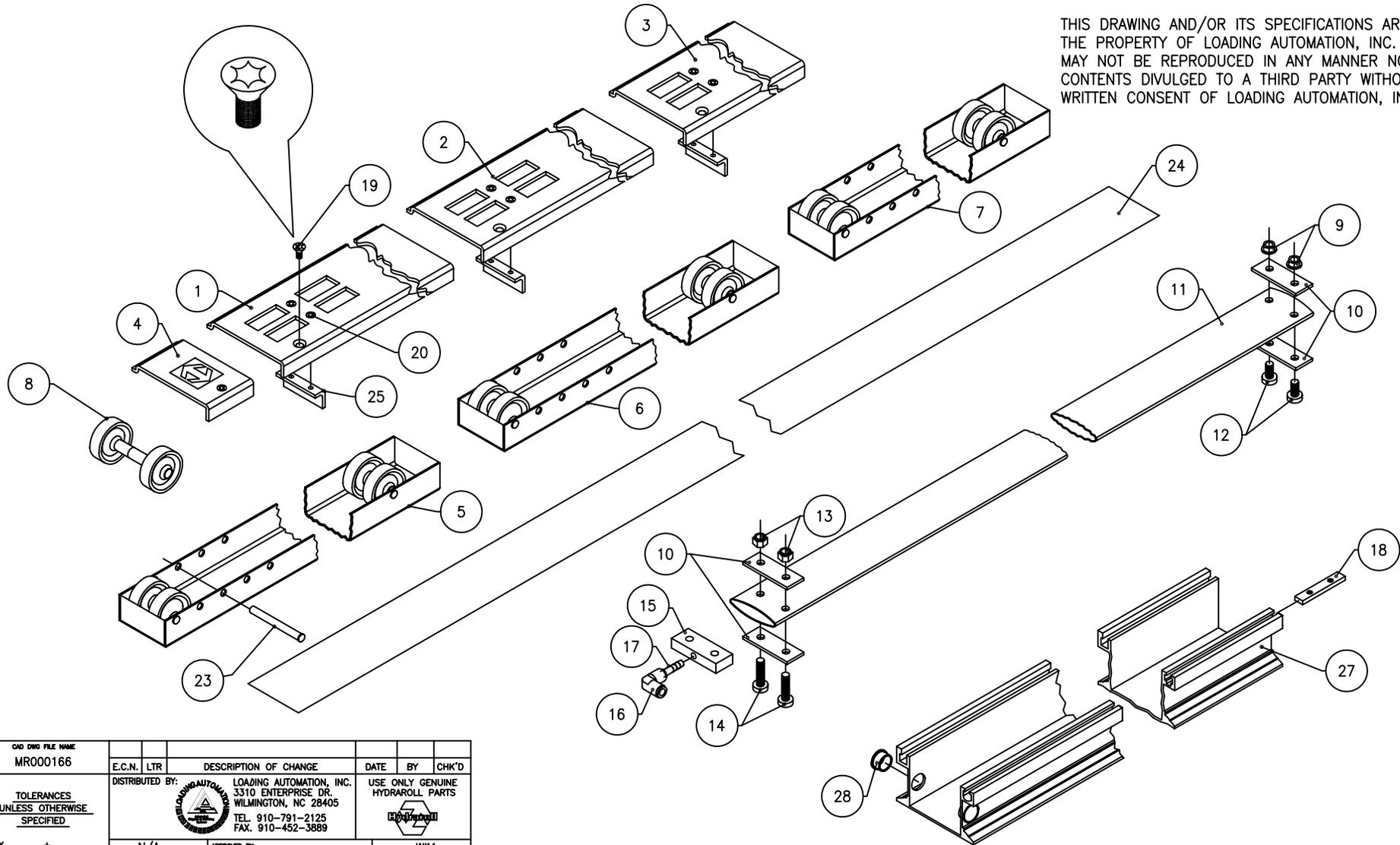
*MARK 21, SERIES 6
QUICK RELEASE TOP PLATES*



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CAD DWG FILE NAME MR000166		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			USE ONLY GENUINE HYDRAROLL PARTS 		
.XX	±	SCALE: N/A		APPROVED BY:	DRAWN BY: WIM		
.XXX	±	DATE: 2/27/06		E.C.N.:	ISSUED		
ANGLES	±	MK21, SERIES 6 ROLLER TRACK					
DO NOT SCALE DRAWING		DRAWING NUMBER (2005-PRESENT)			MR000166		

ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W x 61.81" L; 3.16" PITCH (19 ROLLERS)	801016	1
1**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W x 61.81" L; 6.375" PITCH (10 ROLLERS)	801020	1
2**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W x 61.81" L; 3.16" PITCH (19 ROLLERS)	801016	1
2**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W x 61.81" L; 6.375" PITCH (10 ROLLERS)	801020	1
3**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W X 30" L; 3.16" PITCH (9 ROLLERS)	801021	1
3**	TOP PLATE; MARK 21, SERIES 5; QRTP 4 3/8" W X 30" L; 6.5" PITCH (5 ROLLERS)	801022	1
4	LOGO PLATE; MARK 20, SERIES 5; QRTP (SAME AS MK4, S5) 4 3/8" W x 2 3/8" L	741043	1
5	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 3.16" PITCH (19 ROLLERS)	802016	2
5	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 6.375" PITCH (10 ROLLERS)	802020	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 3.16" PITCH (19 ROLLERS)	802016	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 6.375" PITCH (10 ROLLERS)	802020	1
7	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 3.16 PITCH (9 ROLLERS)	802021	1
7	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 5; 6.375" PITCH (5 ROLLERS)	802022	1
8	ROLLER; MARK 20; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	50 or 94
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	773010	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
23	ROLLER PIN; MARK 20; 2"	743001	29 or 57
24	ACETAL STRIP; 2 -13/16" WIDE	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, S6, 13'-0" L	804000	1
28	AIR LINE GROMMET	714004	2
	MODULE; MK21; S6; 13'-0"; 3.16"P COMPLETE	800005	
	MODULE; MK21; S6; 13'-0"; 6.375"P COMPLETE	800006	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	1
**	INCLUDES ITEMS 20, 21, AND 25		

PLEASE REFERENCE DRAWING MR000166 FOR ASSEMBLY

CAD DWG FILE NAME MR000166A					
E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY	CHK'D
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SCALE: N/A		APPROVED BY:	DRAWN BY WIM		
DATE: 2/27/06		E.C.N.:	ISSUED		
MK21, SERIES 6; QRTP (2005-PRESENT)					
DO NOT SCALE DRAWING		13'-0" MODULES		DRAWING NUMBER MR000166A	

ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1**	TOP PLATE; MARK 21, SERIES 6; QRTP 4 3/8" W x 25.375" L; 3.16" PITCH (7 ROLLERS)	801027	1
4	LOGO PLATE; MARK 4, SERIES 5; QRTP (SAME AS MK4, S5) 4 3/8" W x 2 3/8" L	741043	1
5	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 6; 3.16" PITCH (7 ROLLERS)	802027	1
8	ROLLER; MARK 20; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	10
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" FLAT RED STANDARD	760006	2'-3.5"
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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	773010	1
17*	BARBED INSERT FITTING	763015	1
18	NUT BAR; 6mm	944004	3
19	TOP PLATE SCREW; 6mm x 15mm TORX DRIVE (T30)	943003	3
20	SCREW; M5 x 16 TORX DRIVE	940027	4
21	NUT; BINX; M5	941017	N/A
23	ROLLER PIN; MARK 20; 2.75"	743001	7
24	ACETAL STRIP; 2 -13/16" WIDE	714007	3"-4"
25	GUIDE ANGLE	741038	2
26	2'-3.5" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760063	1
27	MAIN CHANNEL; MK21, S6, 2'-3.5" L	804007	1
28	AIR LINE GROMMET	714004	2
	MODULE; MK21; S6; 2'-3.5"; 3.16"P COMPLETE	800021	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	1
**	INCLUDES ITEMS 20, 21, AND 25		

PLEASE REFERENCE DRAWING MR000166 FOR ASSEMBLY

CAD DWG FILE NAME MR000166B	A	ITEM #27 WAS 804027	10/10/06	WIM	
	E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY
TOLERANCES UNLESS OTHERWISE SPECIFIED	DISTRIBUTED BY:		LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS	
					
.XX ±	SCALE: N/A	APPROVED BY:	DRAWN BY WIM		
.XXX ±	DATE: 2/27/06	E.C.N.:	ISSUED		
ANGLES ±	MK21, SERIES 6; QRTP (2005-PRESENT)				
DO NOT SCALE DRAWING	2'-3.5" MODULES		DRAWING NUMBER MR000166B		

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	803003	36
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" RED STANDARD	760006	10'-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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	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	4
23	ROLLER PIN; MARK 20; 2.75" LONG	743001	22
24	ACETAL STRIP; 2 -13/16" WIDE	714007	11'-0"
25	GUIDE ANGLE	743001	4
26	10'-0" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760061	1
27	MAIN CHANNEL; M21,S6 10'-0" L	804004	1
28	AIR LINE GROMMET, MAIN CHANNEL	714004	2
	MODULE; MK21; S6; 10'-0"; 6.375"P COMPLETE; 5/16" ELBOW	800023	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	
**	INCLUDES ITEMS 20 AND 25		

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A		UPDATED ITEMS #1, 2, 4, 5, 6, & 8		3/14/06 WIM	
E.C.N.	LTR	DESCRIPTION OF CHANGE		DATE	BY: CHK'D
DISTRIBUTED BY:		LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889		USE ONLY GENUINE HYDRAROLL PARTS 	
		MK21,SERIES 6; QRTP (2005-PRESENT)		DRAWN BY: WIM	DATE: 2/27/06
		10'-0" MODULES		FILE NUMBER	MR000166C

ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1**	TOP PLATE; MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 6.375" PITCH (10 TWIN ROLLERS)	801020	1
1**	TOP PLATE; MK21; SERIES 6; QR 4 3/8" W X 61.81" L; 3.16" PITCH (19 TWIN ROLLERS)	801016	1
2**	TOP PLATE; MK21; SERIES 6; QR 4 3/8" W X 43.82" L; 6.375" PITCH (7 TWIN ROLLERS)	801037	1
2**	TOP PLATE; MK21; SERIES 6; QR 4 3/8" W X 43.82" L; 3.16" PITCH (13 TWIN ROLLERS)	801023	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
5	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK21, SERIES 6; 3.18" PITCH (19 TWIN ROLLERS)	802016	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK21, SERIES 6; 6.375" PITCH (7 TWIN ROLLERS)	802029	1
6	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MK21, SERIES 6; 3.16" PITCH (13 TWIN ROLLERS)	802023	1
8	ROLLER; MK20/MK21; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	36
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" RED STANDARD	760006	10'-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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	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	4
23	ROLLER PIN; MARK 20; 2.75" LONG	743001	22
24	ACETAL STRIP; 2 -13/16" WIDE	714007	11'-0"
25	GUIDE ANGLE	743001	4
26	10'-0" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760061	1
27	MAIN CHANNEL; M21,S6 10'-0" L	804004	1
28	AIR LINE GROMMET, MAIN CHANNEL	714004	2
	MODULE; MK21; S6; 9'-0"; 6.375"P COMPLETE; 5/16" ELBOW	800018	
	MODULE; MK21; S6; 10'-0"; 3.16"P COMPLETE; 5/16" ELBOW	800024	

* 2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)
 ** INCLUDES ITEMS 20 AND 25

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E.C.N.		LTR	DESCRIPTION OF CHANGE	DATE	BY:	CHK'D
DISTRIBUTED BY:			LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS		
						
			DRAWN BY: WIM	DATE: 10/10/06		
MK21,SERIES 6; QRTP (2005-PRESENT)						
9'-0" MODULES				FILE NUMBER	MR000166D	

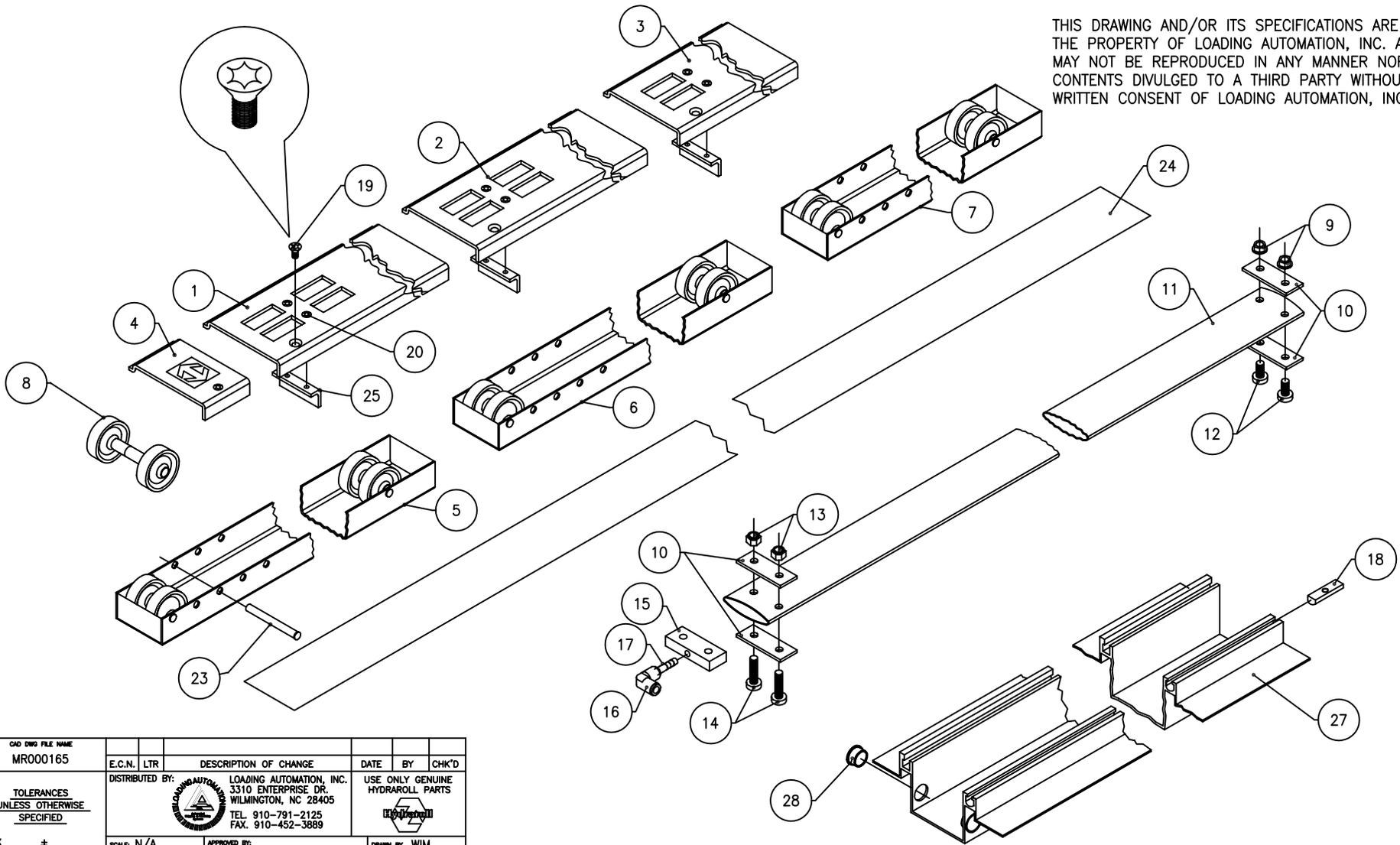


**MARK 21 TWIN ROLLER,
SERIES 6, WINGED MODULES W/
QUICK RELEASE TOP PLATES**



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OLD DWG FILE NAME MR000165	E.C.N. LTR DESCRIPTION OF CHANGE DATE BY CHK'D	DISTRIBUTED BY:  LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS 
TOLERANCES UNLESS OTHERWISE SPECIFIED .XX ± .XXX ± ANGLES ±	SCALE: N/A DATE: 2/27/06	APPROVED BY: E.C.N.:	DRAWN BY WIM ISSUED
DO NOT SCALE DRAWING	MK21, SERIES 6 WINGED ROLLER TRACK (2005-PRESENT)		DRAWING NUMBER MR000165

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	803003	36
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" RED STANDARD	760006	10'-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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	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	4
23	ROLLER PIN; MARK 20; 2.75" LONG	743001	22
24	ACETAL STRIP; 2 -13/16" WIDE	714007	11'-0"
25	GUIDE ANGLE	743001	4
26	10'-0" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760061	1
27	MAIN CHANNEL; M21,S6W 10'-0" L WINGED	804005	1
28	AIR LINE GROMMET, MAIN CHANNEL	714004	2
	MODULE; MK21; S6W; 10'-0"; 6.375"P COMPLETE; 5/16" ELBOW	800014	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	
**	INCLUDES ITEMS 20 AND 25		

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A		UPDATED ITEMS #1, 2, 4, 5, 6, & 8		3/14/06 WIM	
E.C.N.	LTR	DESCRIPTION OF CHANGE		DATE	BY: CHK'D
DISTRIBUTED BY:		LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889		USE ONLY GENUINE HYDRAROLL PARTS 	
		MK21,SERIES 6W; QRTP (2005-PRESENT)		DRAWN BY: WIM	DATE: 2/27/06
		10'-0" MODULES		FILE NUMBER	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) MK21, SERIES 6: 6.375" PITCH (10 TWIN ROLLERS)	802020	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) 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 or 76
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" RED STANDARD	760006	10'-6"
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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	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	ROLLER PIN; MARK 20; 2.75" LONG	743001	24 or 42
24	ACETAL STRIP; 2 -13/16" WIDE	714007	11'-6"
25	GUIDE ANGLE	743001	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
	MODULE; MK21; S6W; 10'-6"; 6.375"P COMPLETE; 5/16" ELBOW	800017	
	MODULE; MK21; S6W; 10'-6"; 3.16"P COMPLETE; 5/16" ELBOW	800016	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	
**	INCLUDES ITEMS 20 AND 25		

PLEASE REFERENCE DRAWING MR000165 FOR ASSEMBLY

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	A	UPDATED ITEMS #1, 2, 4, 5, 6, & 8	3/14/06	WIM	
E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY:	CHK'D
DISTRIBUTED BY:		LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS		
					
			DRAWN BY: WIM	DATE: 2/27/06	
MK21, SERIES 6W; QRTP (2005-PRESENT)					
10'-6" MODULES			FILE NUMBER	MR000165B	

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
3**	TOP PLATE; MK20/MK21, SERIES 6; QR 4 3/8" W X 30" L; 3.16" PITCH (9 ROLLERS)	801021	1
3**	TOP PLATE; MK20/MK21, SERIES 6; QR 4 3/8" W X 30" L; 6.5" PITCH (5 ROLLERS)	801022	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
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) 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
7	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 6; 3.16 PITCH (9 ROLLERS)	802021	1
7	ROLLER CHANNEL ASSEMBLY (COMPLETE W/ROLLERS) MARK 21, SERIES 6; 6.375" PITCH (5 ROLLERS)	802022	1
8	ROLLER; MK20/MK21; 2" DIA X 5/8" WIDE HEAVY DUTY	803003	50 or 94
9*	NUT; 8mm FLANGED	ASSEMBLY ONLY	2
10*	CLAMP PLATE; 2 1/2" WIDE	ASSEMBLY ONLY	4
11	AIR BAG; 2 1/2" 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*	RUBBER INSERT PLUG; 2 1/2" WIDE	763007	1
16*	ELBOW; 5/16" OD	773010	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 11 POSI DRIVE	940027	12
23	ROLLER PIN; MARK 20; 2.75" LONG	743001	31 or 54
24	ACETAL STRIP; 2 -13/16" WIDE	714007	14'-0"
25	GUIDE ANGLE	743038	6
26	13'-0" AIR BAG ASSY (ITEMS 9-17) 2.5" FLAT; RED	760057	1
27	MAIN CHANNEL; MK21,S6 13'-0" L WINGED	804001	1
28	AIR LINE GROMMET, MAIN CHANNEL	714004	2
	MODULE; MK21; S6W; 13'-06"; 6.375"P COMPLETE; 5/16" ELBOW	800022	
	MODULE; MK21; S6W; 13'-0"; 3.16"P COMPLETE; 5/16" ELBOW	800011	
*	2.5" AIRBAG CLAMP KIT W/ ELBOW (ITEMS 9, 10, 12-17)	762004	
**	INCLUDES ITEMS 20 AND 25		

PLEASE REFERENCE DRAWING MR000165 FOR ASSEMBLY

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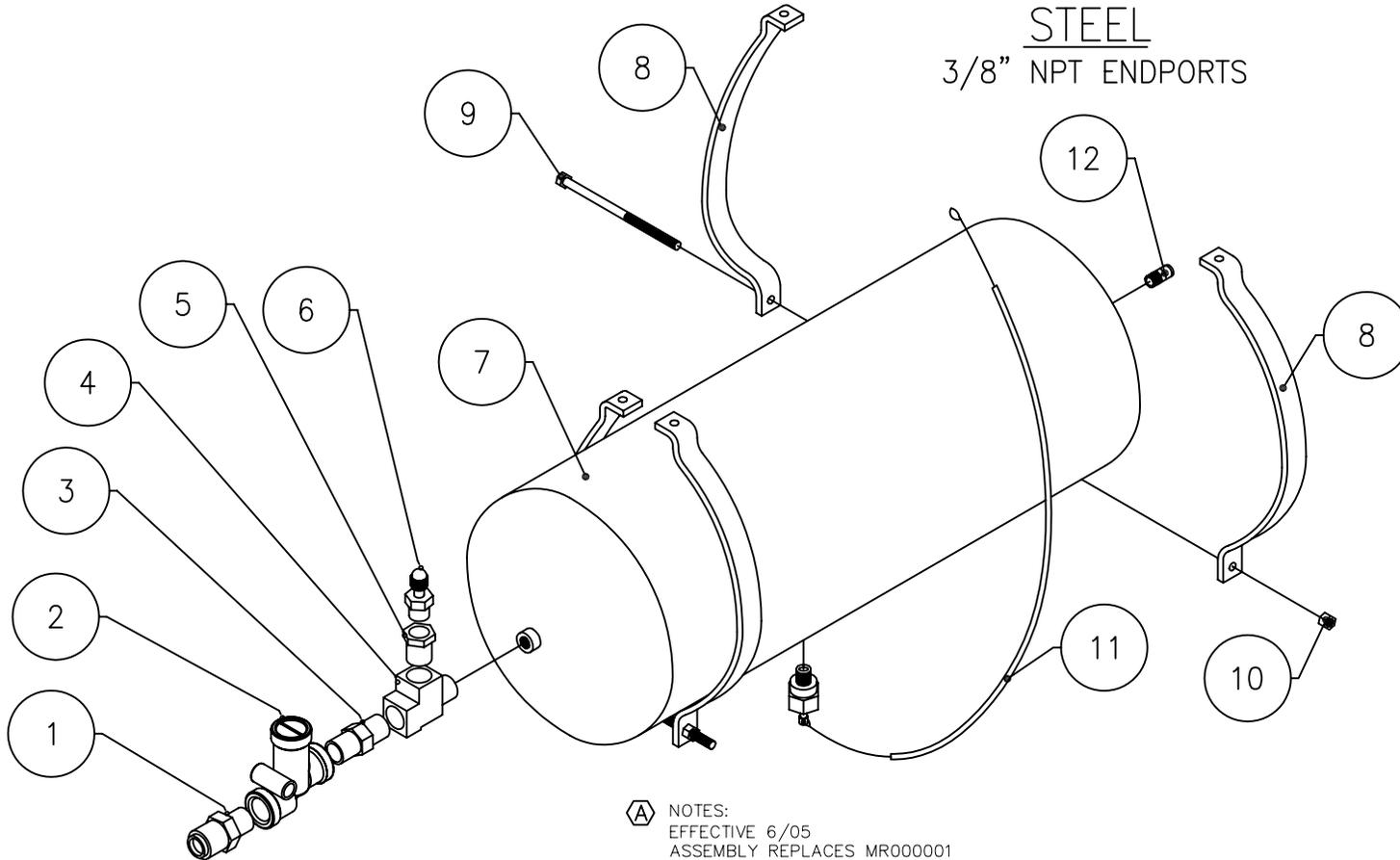
A		UPDATED ITEMS #1, 2, 4, 5, 6, 7, & 8		3/14/06	WIM
E.C.N.	LTR	DESCRIPTION OF CHANGE		DATE	BY: CHKD
DISTRIBUTED BY:		 LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889		USE ONLY GENUINE HYDRAROLL PARTS 	
				DRAWN BY: WIM	DATE: 2/27/06
MK21,SERIES 6W; QRTP (2005-PRESENT)					
13'-0" MODULES				FILE NUMBER	MR000165C



COMMON COMPONENTS ROLLER TRACK SYSTEM



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LOADING AUTOMATION, INC.
P.O. BOX 4820, WILMINGTON, NC 28406
WWW.LOADING-AUTOMATION.COM
TEL (910) 791-2125
TEL (800) 264-3184
FAX (910) 452-3889



STEEL
3/8" NPT ENDPORTS

Ⓐ NOTES:
EFFECTIVE 6/05
ASSEMBLY REPLACES MR000001
SEE MR000176 FOR PPV REPLACEMENT INSTRUCTIONS

CAD DWG FILE NAME MR000083		A		ADDED NOTE		4/19/06	
E.C.N. LTR		DESCRIPTION OF CHANGE		DATE	BY	CHK'D	
DISTRIBUTED BY:		LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889		USE ONLY GENUINE HYDRAROLL PARTS			
<u>TOLERANCES UNLESS OTHERWISE SPECIFIED</u> .XX ± .XXX ± ANGLES ±		SCALE: N/A		APPROVED BY:		DRAWN BY: WIM	
		DATE: 7/7/05		E.C.N.:		ISSUED	
		AIR TANK ASSEMBLY W/PPV					
DO NOT SCALE DRAWING				DRAWING NUMBER MR000083			

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ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1	STUD CPLG; D.O.T.; 3/8 NPT X 3/8 TUBE	775010	1
2	PRESSURE PROTECTION VALVE (PPV) BODY; 3/8" X 3/8" NPT	772004	1
3	NIPPLE: HEX; BRASS 3/8" NPT X 3/8" NPT	774017	1
4	TEE; BRASS; 3/8" MALE X 3/8" FEMALE X 3/8" FEMALE NPT	774016	1
5	REDUCING BUSHING; BRASS; 3/8" NPT - 1/8" NPT	774015	1
6	AUX. INFLATE VALVE (AIV); SCHRADER TYPE; 1/8" NPT	772028	1
7	STEEL AIR TANK RESERVOIR W/ 3/8" NPT ENDPORTS	770002	1
8	BRACKET; STEEL 2 PC.; 12" STEEL	770003	2
9	BOLT; HEX HEAD; 3/8" FULL THREAD X 6" LONG	770004	2
10	NUT; NYLOC; 3/8"	941009	2
11	DRAIN VALVE; 1/4" NPT; WITH CABLE	770008	1
12	STUD COUPLING; 5/16" T x 3/8" NPT	773017	1
	AIR TANK ASSEMBLY (ITEM #7-12) JUNE 1996-PRESENT	770000	1
	PRESSURE PROTECT ASSY W/ AIV SCHRADER (ITEM #1-6)	772053	1
	PRESSURE PROTECT VALVE ASSY W/O AIV SCHRADER (ITEM #1-3) (NOTE: USED WHEN AIV SCHRADER VALVE IS IN CONTROL BOX)	772054	1

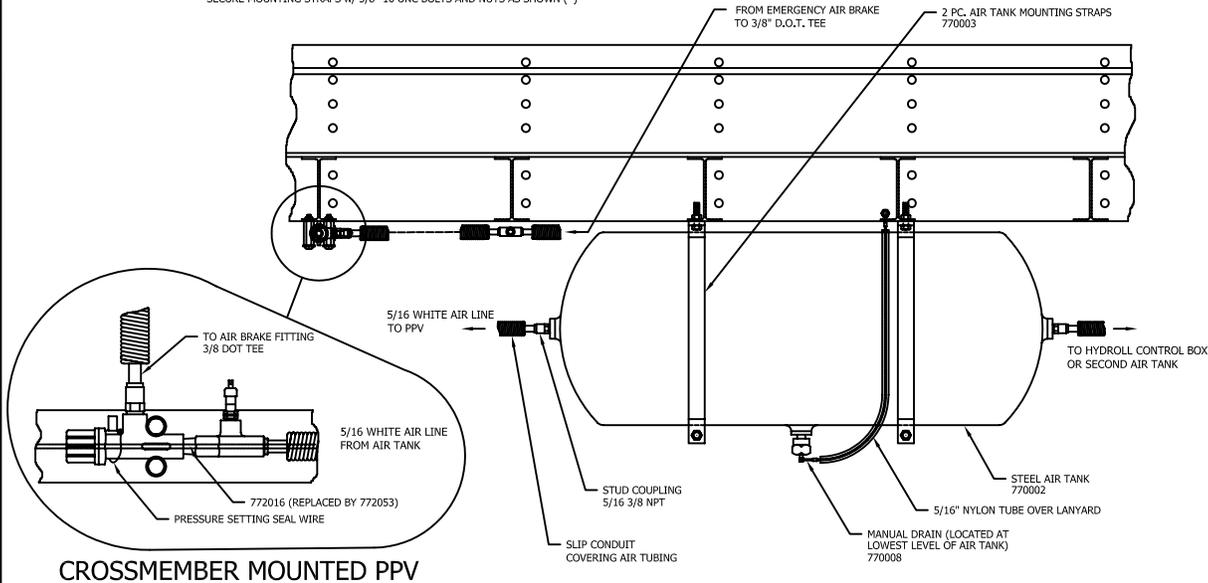
NOTES:
EFFECTIVE 6/05
ASSEMBLY NUMBER 772053 REPLACES ASSEMBLY 772016
SEE MR000176 FOR PPV REPLACEMENT INSTRUCTIONS

PLEASE REFERENCE DRAWING MR000083 FOR ASSEMBLY

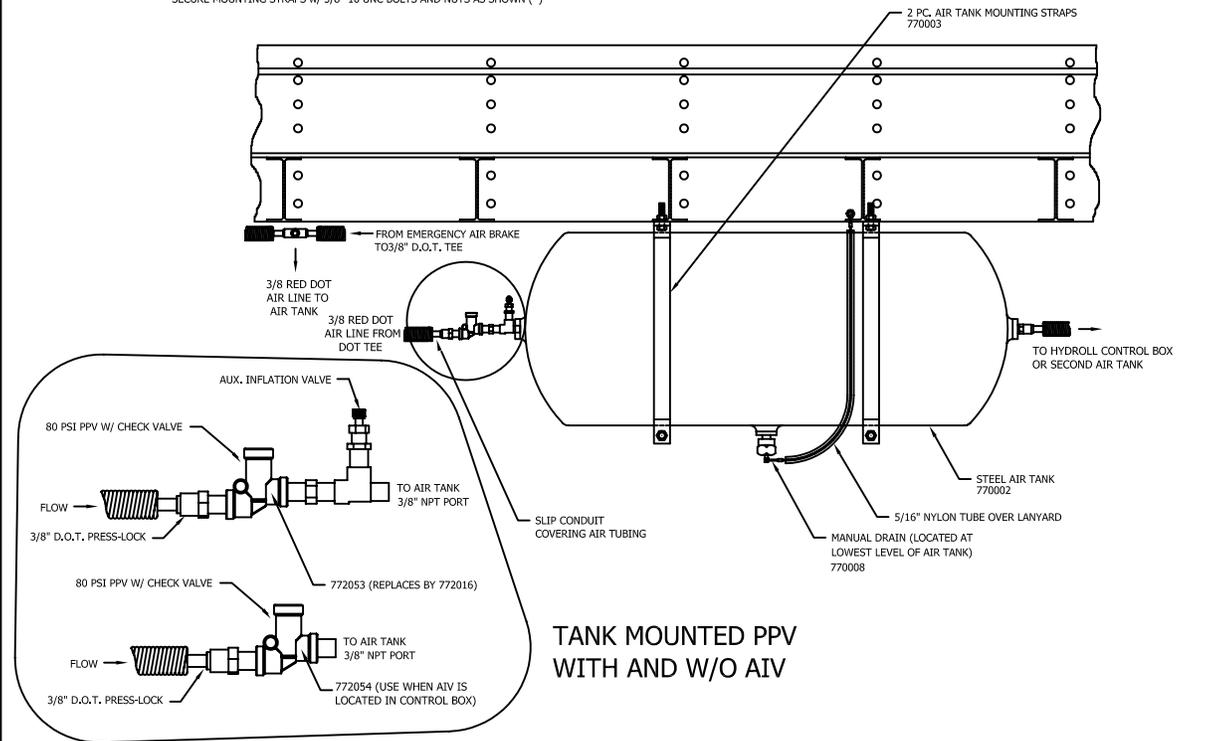
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	B	ADDED NOTE	04/18/06	WIM	
	A	CHANGED PART# OF PPV BODY - ITEM #2	10/21/05	RJF	
E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY:	CHKD
DISTRIBUTED BY:		LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS		
					
			DRAWN BY: WIM	DATE: 7/7/05	
AIR TANK ASSEMBLY W/PPV					
			FILE NUMBER	MR000083A	

DRILL (4) 13/32" DIA. HOLES USING DIMENSION SHOWN AND SECURE MOUNTING STRAPS w/ 3/8"-16 UNC BOLTS AND NUTS AS SHOWN (*)



DRILL (4) 13/32" DIA. HOLES USING DIMENSION SHOWN AND SECURE MOUNTING STRAPS w/ 3/8"-16 UNC BOLTS AND NUTS AS SHOWN (*)



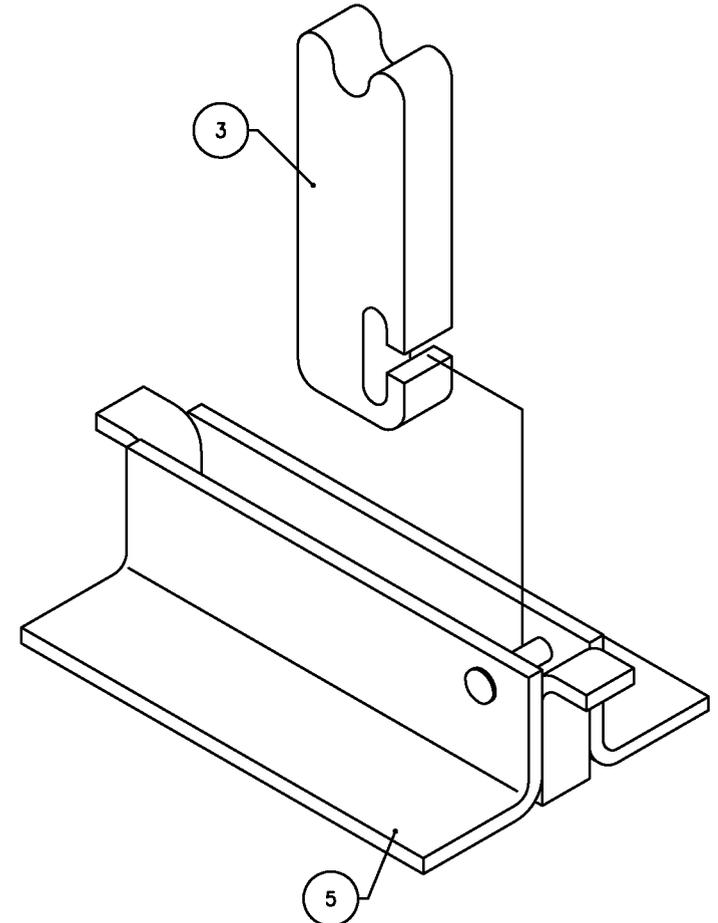
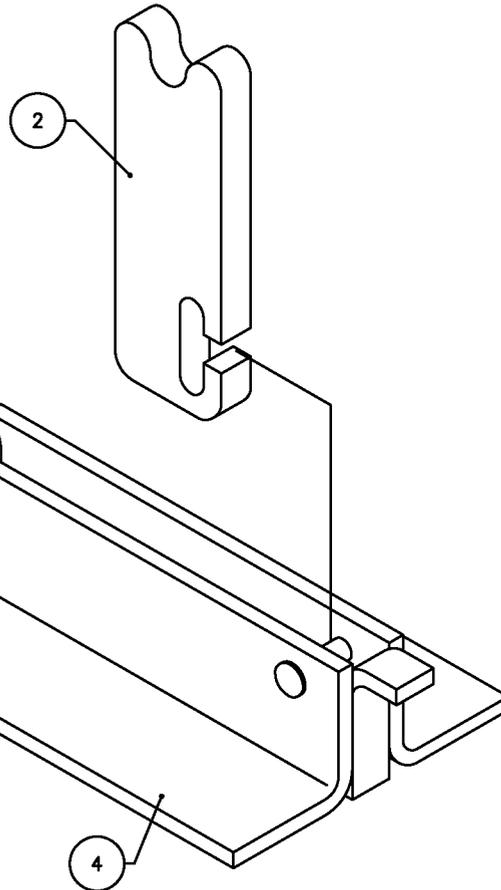
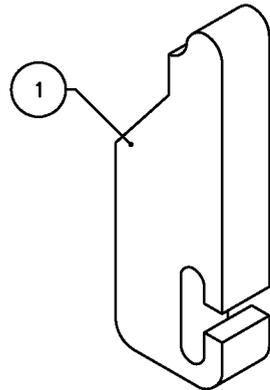
REPLACEMENT INSTRUCTIONS FOR PPV UPGRADE

REMOVE 772016 (REMOTE MOUNTED PPV) LEAVING 3/8" DOT TEE IN PLACE.
 REMOVE 5/16" X 3/8" NPT STUD COUPLING IN AIR TANK, REPLACE IT W/ PPV 772053 OR 772054
 RUN 3/8" DOT APPROVED RED AIR LINE FROM THE EXISTING TEE TO 772053/772054 (TANK MOUNTED PPV).
 COVER AIR LINE WITH SLIT PLASTIC CONDUIT FOR ADDED PROTECTION

CAD DWG FILE NAME	E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY	CHK'D
TOLERANCES UNLESS OTHERWISE SPECIFIED .XX ± .XXX ± ANGLES ±	DISTRIBUTED BY: LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889			USE ONLY GENUINE HYDRAROLL PARTS 		
	SCALE: MR000176.DWG APPROVED BY:			DRAWN BY:		
DATE: 4/18/06			E.C.N.:			ISSUED
PPV UPGRADE REPLACEMENT						
DO NOT SCALE DRAWING			INSTRUCTION SHEET		DRAWING NUMBER MR000176	

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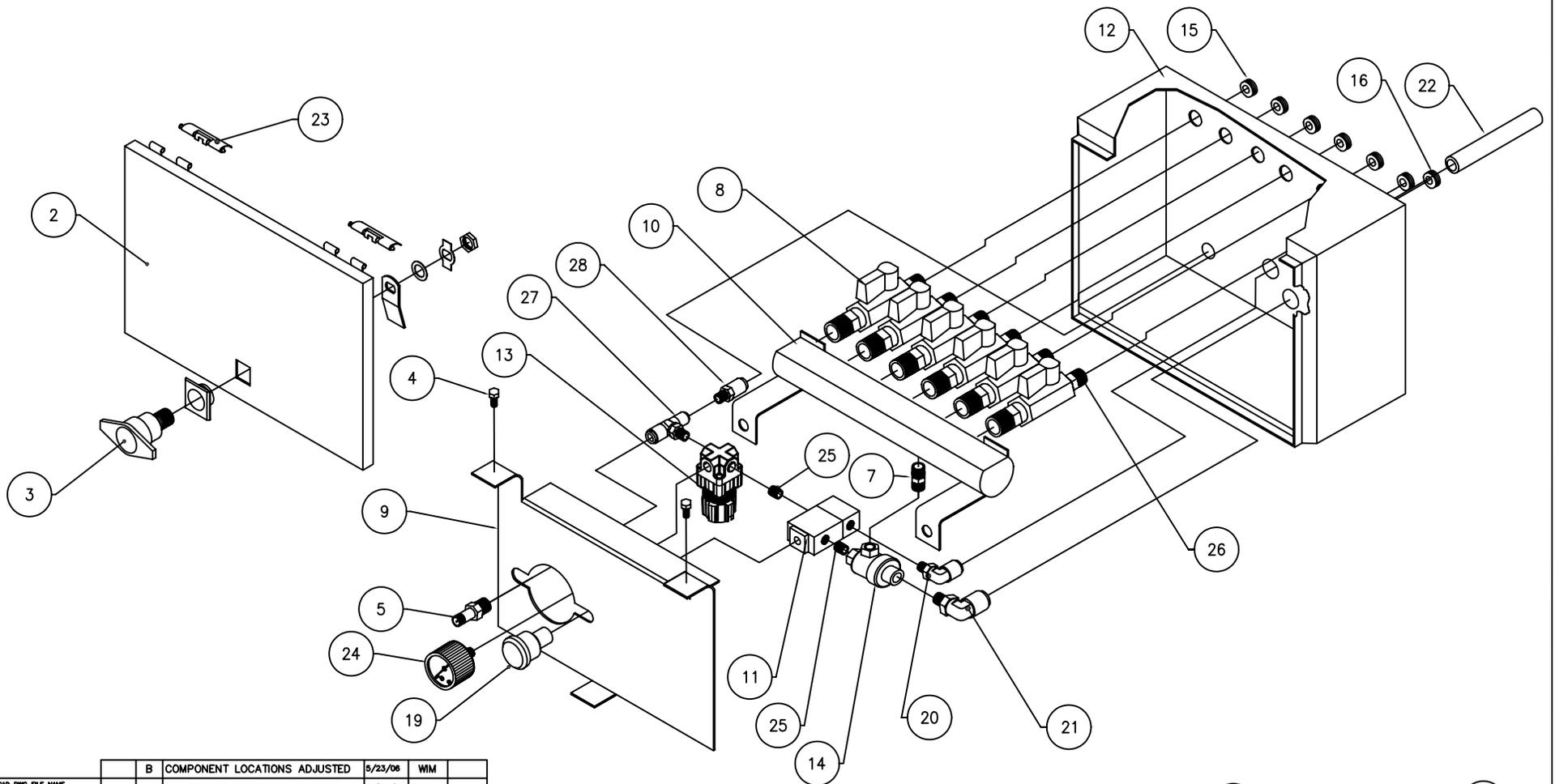
CADD DRAW FILE NAME MR000009-LAI		E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY	CHK'D
TOLERANCES UNLESS OTHERWISE SPECIFIED		DISTRIBUTED BY: 		LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS 		
.XX	±	SCALE N/A		APPROVED BY:	DRAWN BY RJF		
.XXX	±	DATE 11/17/02		E.C.N.:	BILLED		
ANGLES	±	PALLET STOPS					
DO NOT SCALE DRAWING		DRAWING NUMBER MR000009					

ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
1	REPLACEMENT BLADE; NOTCHED; 1" THICK	710006	1
2A	REPLACEMENT BLADE; 5/8" THICK	710004	1
2B	REPLACEMENT BLADE; 5/8" THICK; WINGED TRACK	710015	1
3A	REPLACEMENT BLADE; STANDARD; 1" THICK	710007	1
3B	REPLACEMENT BLADE; STANDARD; 1" THICK; WINGED TRACK	710011	1
4	PALLET STOP ASSY w/ 5/8" THK BLADE (incl. 2A)	710003	1
4	PALLET STOP ASSY w/ 5/8" THK BLADE; WING TRACK (incl. 2B)	710014	1
5	PALLET STOP ASSY w/STD 1" THK BLADE (incl. 3A)	710005	1
5	PALLET STOP ASSY w/STD 1" THK BLADE; WING TRACK (incl. 3B)	710010	1

PLEASE REFERENCE DRAWING MR000009 FOR ASSEMBLY

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DISTRIBUTED BY:			LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS		
						
			DRAWN BY: RJF	DATE: 11/15/02		
PALLET STOPS						
				FILE NUMBER	MR000009A	



CAD DWG FILE NAME MR000164		B	COMPONENT LOCATIONS ADJUSTED	5/23/08	WIM	
		A	UPDATED FACEPLATE & MANIFOLD	4/25/03	WIM	
TOLERANCES UNLESS OTHERWISE SPECIFIED		E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY
.XX ±		DISTRIBUTED BY:		LOADING AUTOMATION, INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS	
.XXX ±		SCALE: N/A		APPROVED BY:	DRAWN BY: WIM	
ANGLES ±		DATE: 7/1/05		E.C.N.:	ISSUED:	
DO NOT SCALE DRAWING		S/S CONTROL BOX: AUTODOWN W/ AIV & TIV		DRAWING NUMBER: MR000164		

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ITEM NUMBER	DESCRIPTION	PART NUMBER	NUMBER REQUIRED
2	S/S LID; COMPLETE WITH SEAL	771043	1
3	TEE HANDLE LATCH *	771048	1
4	FACE PLATE MOUNTING BOLT	771045	3
5	SCHRADER VALVE; 1/8" BSP	772028	1
7	STRAIGHT ADAPTOR; 1/4" P x 1/4" P	778001	1
8	TRACK ISOLATION VALVE	772058	6
9	FACE PLATE (PREDRILLED)	771065	1
10	MANIFOLD, TRACK ISOLATION VALVE (TIV) W/BRACKET	772059	1
11	AUTO-DOWN CONTROL VALVE (incl. 19)	772024	1
12	S/S CONTROL BOX, PRE-DRILLED W/ DECAL	771066	1
13	PRESSURE REGULATOR	772055	1
14	QUICK EXHAUST VALVE (QEV)	772056	1
15	GROMMET; 8mm	714030	8
16	GROMMET; 22mm	714031	1
17	NYLON TUBING; 5/16" OD	773005	AS REQ'D
18	NYLON TUBING; D.O.T.; 3/8" OD	775001	AS REQ'D
19	KNOB; AUTO-DOWN VALVE	772023	1
20	ELBOW; D.O.T; 1/8" X 3/8" T	775009	1
21	ELBOW; SWIVEL; 1/4" X 12mm TUBE	776005	1
22	TUBE, 12mm (.50") O.D.	776002	1
23	REPLACEMENT HINGE (incl. pin and clips)	771046	2
24	PRESSURE GAUGE	772008	1
25	NIPPLE; HEX; 1/8" X 1/8"	778023	2
26	STUD COUPLING 1/4" NPT X 5/16 TUBE	773008	6
27	TEE; 1/8" FEMALE X 1/8" MALE X 1/8" FEMALE NPT	773023	1
28	STUD COUPLING: 1/8" NPT X 5/16 TUBE	773001	1
	CONTROL BOX ASSY: S/S AUTODOWN, AIV & TIV INCLUDED	771064	1
	CONTROL BOX MOUNTING BRACKET (2 PC.)	711009	1

NOTE: ITEM #1 "PILLAR; FACE PLATE MOUNTING; 97mm LONG"
REMOVED BECAUSE FACE PLATE BOLTED TO BOX

PLEASE REFERENCE DRAWING MR000164 FOR ASSEMBLY

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	C	ITEM #6 REMOVED, ITEM #26 WAS 773022	05/23/06	WIM	
	B	UPDATED ITEMS 5, 24 & 2	04/25/06	WIM	
	A	ADDED CONTROL BOX MOUNTING BRACKET	01/25/06	RJF	
E.C.N.	LTR	DESCRIPTION OF CHANGE	DATE	BY:	CHKD
DISTRIBUTED BY:		LOADING AUTOMATION INC. 3310 ENTERPRISE DR. WILMINGTON, NC 28405 TEL. 910-791-2125 FAX. 910-452-3889	USE ONLY GENUINE HYDRAROLL PARTS		
					
			DRAWN BY: WIM	DATE: 7/1/05	
S/S CONTROL BOX: AUTODOWN W/ AIV & TIV					
S/S BOX 771064			FILE NUMBER MR000164A		



OPERATION & MAINTENANCE ROLLER TRACK SYSTEM



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LOADING AUTOMATION, INC.
P.O. BOX 4820, WILMINGTON, NC 28406
WWW.LOADING-AUTOMATION.COM
TEL (910) 791-2125
TEL (800) 264-3184
FAX (910) 452-3889

AIR INTEGRITY TEST PROCEDURE

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.

NOTE: The pressure loss must be the equivalent 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).

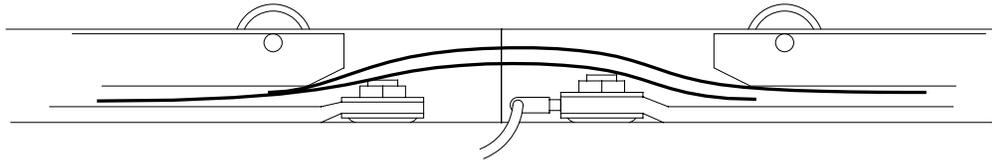


FIGURE A

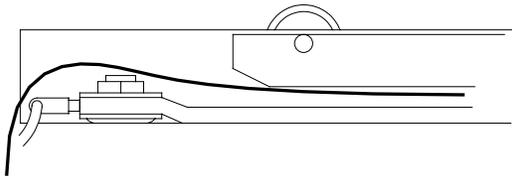


FIGURE B

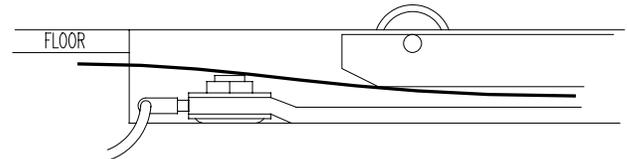
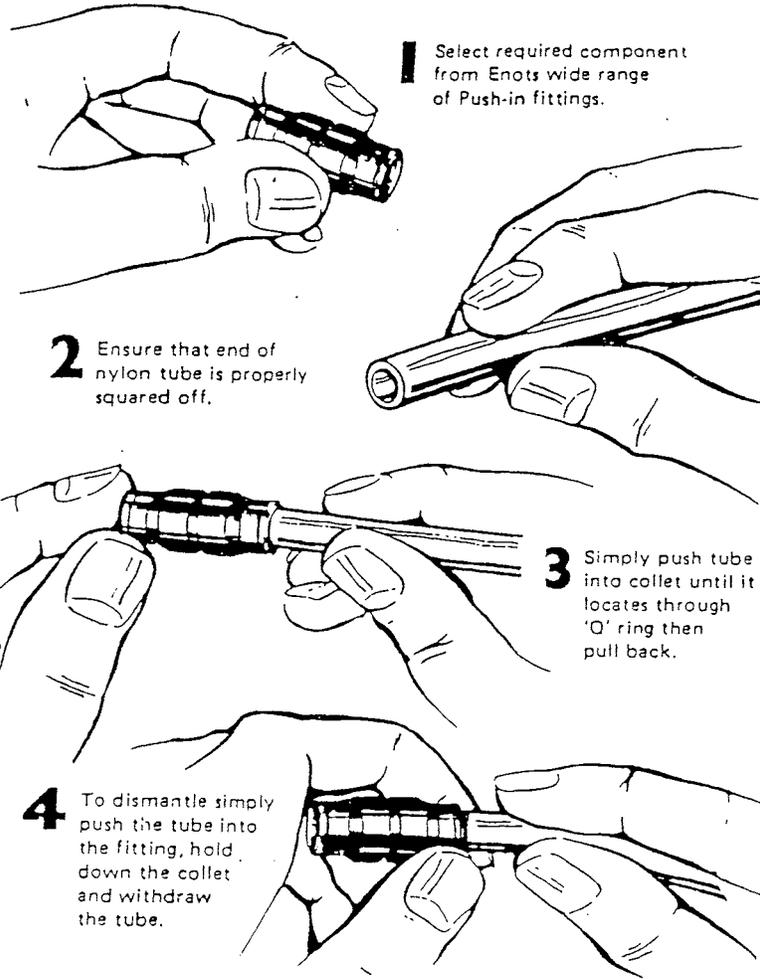


FIGURE C

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.



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.

Hydraroll

Complete operating and maintenance instructions are provided with this unit. Read and understand fully prior to operation. Failure to maintain this equipment in good repair and operating condition can result in unsafe use and loss of warranty.
Maintenance highlights are listed below - consult manual for full details.

<p>OPERATING PROCEDURE</p> <p>1. Load/Unload Push button(s) in - air in, rollers raised Pull button(s) out - for each loaded section</p> <p>2. Transportation Button(s) out - air out, rollers lowered</p> <p>3. Lower rollers when not in use</p>	<p>MAINTENANCE PROCEDURE</p> <p>1. Weekly Check Drain water from air receiver and filter bowl in control box. Visually check tracks for obstructions which might prevent movement of the rollers.</p> <p>2. Monthly Check Inspect tracks for damage, loose parts and fittings. Inspect air equipment for leaks, insecure connections, damage to air lines and components. Repair, replace and secure as required.</p> <p>3. 6-Monthly Scheduled Service Remove top plates from track and clean out any particles from channel sections.</p>
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Comments or questions on Hydraroll Products, call:
Loading Automation Inc.
3310, Enterprise Drive
Wilmington
NC 28405, USA
Tel: (001) 910 791 2125

**CLOSE AND LATCH
WHEN NOT IN USE**



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