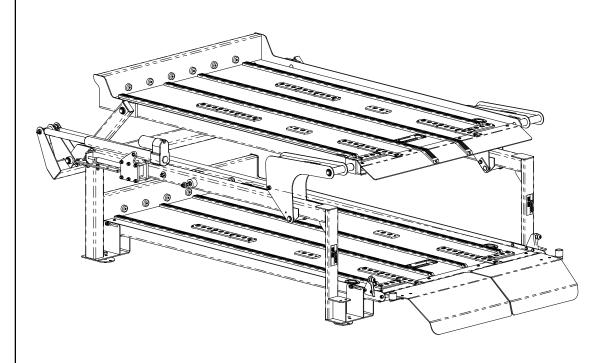


INSTALLATION INSTRUCTIONS

DD200-EX1
DOUBLE DECK SYSTEM FOR
VAUXHALL MOVANO
7223A000



Link Mfg. Ltd. 223 15th St. N.E. Sioux Center, IA USA 51250-2120

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QUESTIONS? CALL CUSTOMER SERVICE 1-800-248-3057 www.linkcmp.com



1.0 INTRODUCTION

The following steps are instructions for installing the DD200 deck system in a Vauxhall Movano van. Refer to **Figure 1** on **Page 5** for details.

It is important to thoroughly read the entire Installation Instruction Manual before installing this system. This double deck system is designed to be installed and operated inside a motor vehicle.

2.1 RECOMMENDED TOOLS AND SUPPLIES

- -Rechargeable drill with Phillips driver
- -Cold chisel and hammer
- -Grinder
- -Spray paint matching the vehicle color
- -Drill and drill bits
- -Wrenches, sockets, and hex keys (non-metric)
- -Snap-ring pliers

2.2 VAN PREPARATION

- 2.2.1. Remove the wheel-housing-to-rear post using a cold chisel and hammer. Grind the sharp edges down.
- **2.2.2.** Paint the revised strut area to match the van paint. Aerosol spray is best for this application.

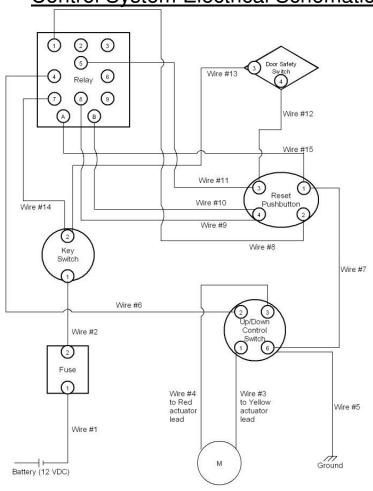
2.3 UNIT INSTALLATION

- **2.3.1.** Using the supplied hardware, install the side bumpers (Item #44, Page 6) to the van 24" above the floor, with 3" extended. Leave them loose to be adjusted later.
- **2.3.2.** Set the main side frames (Items #74 and 75) into the van. The front legs (Item #73) have been preinstalled in the correct position. Also set the front torsion bar (Item #61) into the van.
- **2.3.3.** Insert the four plastic flanged bearings (Item #50) into the torsion bar pivots to allow for assembly to side frames. Select the front pivot pins (Item #63) and mark the ends to indicate the orientation of the set-screw area. Insert the right side pivot pin through the torsion bar and front hole of the right side frame and install a snap ring (Item #48) on each end. Orient the flat spot of the pin toward the set-screw and lock in place with the set-screw and jam nut (Items #20 and 25). Repeat for left side.
- **2.3.4.** Connect the actuator to the front torsion bar using the provided pivot pin (Item #62) and two snap rings (Item #47).
- **2.3.5.** Connect the right and left tie rods (Item #78) to the front torsion bar using a 1/2x1-1/2 bolt, 1/2" flat washer, plastic washer, and 1/2" top lock nut (Items #16, 38, 54, and 28 respectively). The actuator may need to be run out slightly to help line up the holes.
- **2.3.6.** Insert two plastic flanged bearings (Item #50) and two 7/8" long plastic bearings (Item #57) into the pivots of the front torsion bar arms to prepare for assembly of top table.
- **2.3.7.** Insert two plastic flanged bearings (Item #50) and two 1-1/8" long plastic bearings (Item #51) into the pivots of the left and right hand leveling arms (Items #76 and 77).
- **2.3.8.** Install the top table (Item #72) to the framework. Begin by connecting the front using a pin, a snap ring, and a thin plastic washer (Items #69, 48, and 39) on each side. Be sure the flat spot on the pin is oriented upward and lock each pin in place with the 3/8x1/2" set-screws. Then lock the first set-screw in place with a second set-screw. Repeat entire process for the rear mounts of the table using a longer pin, a snap ring, and a thin plastic washer (Items #68, 48, and 39). NOTE: If spacing between the front and rear pins does not match

the hole spacing on the top table, adjust by loosening the jam nuts (Items #26 and 27) on the tie rods and turning the tie rod to lengthen or shorten it the necessary amount. Re-tighten the jam nuts when adjustment is complete.

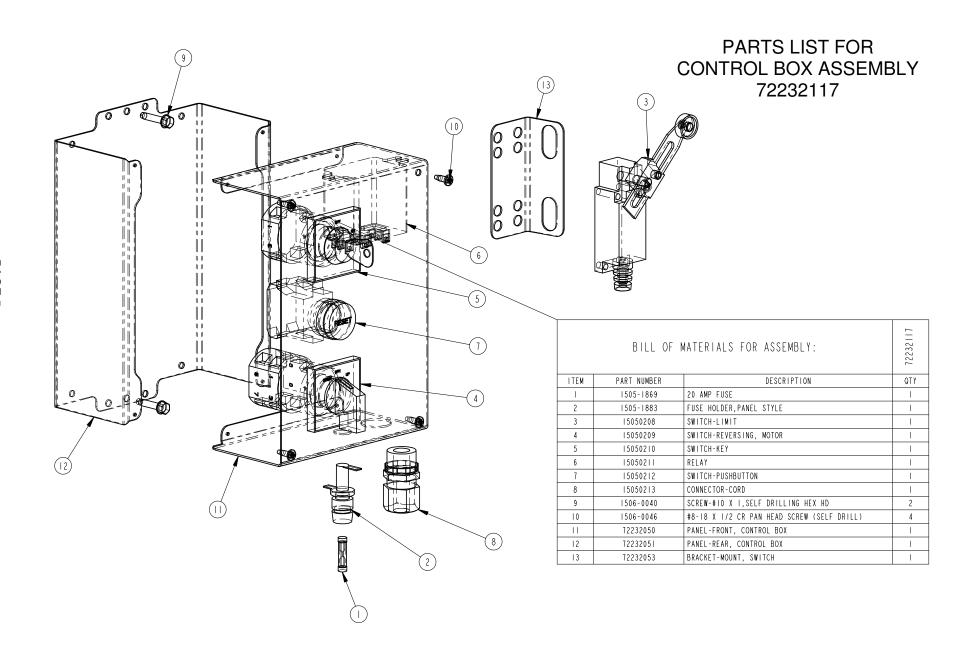
- **2.3.9.** After verifying that the top table will cycle up and down, raise the table up to allow for installation of the bottom table. Set the bottom table in place and loosely fasten to the frame in four places using a 3/8x1" bolt and serrated flange nut (Items #15 and 32). There should be approximately 7/8" of clearance between the fronts of the top and bottom decks when the top deck is in the "down" position. DO NOT TIGHTEN at this time to allow for adjustment.
- **2.3.10.** Install the ramp stop brackets (Items #3 and 70) to the bottom table using two 5/16x3/4" bolts and nylock nuts per side (Items #13 and 30). The male ramp holders have been pre-assembled to the brackets.
- **2.3.11.** Install the ramps (Items #4 and 5) to the bottom deck using two hinge arm bolts and 3/8" nylock nuts (Items #55 and 31) per ramp. The ramp stop brackets and female ramp holders have been pre-assembled to the ramps.
- **2.3.12.** Verify the fit and function of the ramp and decks with the van, paying special attention to potential interference with the bumper, the rear doors (when closed), or the rear van posts. The bottom table and/or the entire unit may need to be shifted slightly to optimize the fit.
- **2.3.13.** Once everything is in its final position, tighten the fasteners connecting the bottom table to the frame.
- **2.3.14.** The entire unit is fastened to the floor of the van at each of the four "feet." Use the front of two holes on the rear "feet." VERIFY CLEARANCE UNDER THE VAN BEFORE DRILLING. Pre-drill through the floor with a 1/2" drill bit and fasten the unit using the provided 1/2x1-3/4" bolts, large floor support washers, and serrated flange nuts (Items #17, 56, and 33).
- 2.3.15. Tighten the side bumpers installed in 2.3.1 to limit side-to-side movement of unit.
- **2.3.16.** Install the electrical control box (Item #7) in the left rear corner of the van. Be mindful of pinch points when locating it. Refer to Pages 4 and 5 for details.
- **2.3.17.** Using the provided bracket, install the limit switch near the upper, rear corner of the side door opening. Position and adjust the switch so that the switch is actuated when the door is closed.
- **2.3.18.** Route the wires from the control box and connect them as shown in the electrical schematic on Page 4. Use the provided in-line fuse holder with 30 amp fuse near the vehicle battery.
- **2.3.19.** Apply load capacity decals to the unit in areas easily visible from the operating position.
- **2.3.20.** After completing the system installation, conduct a thorough examination of the system including a functional test of cycling the deck up and down to ensure the system is properly installed. Record and file evidence of this examination and functional testing.

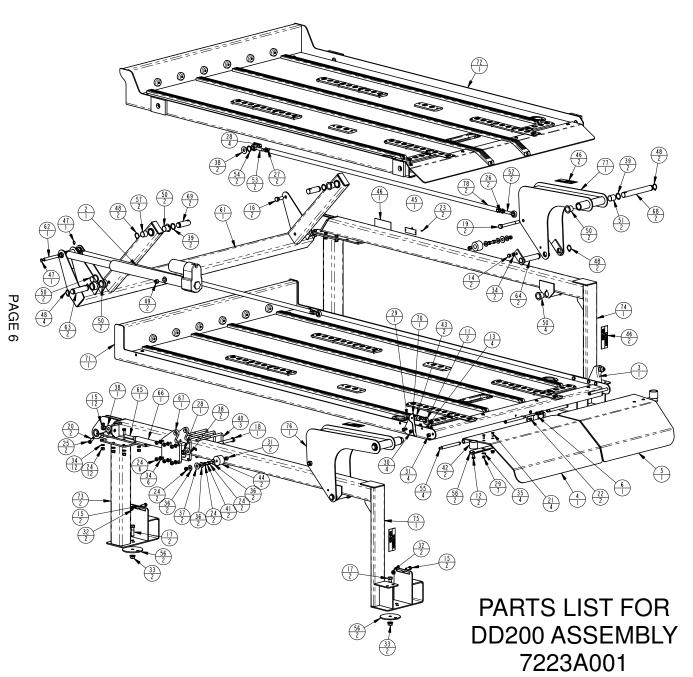
Control System Electrical Schematic



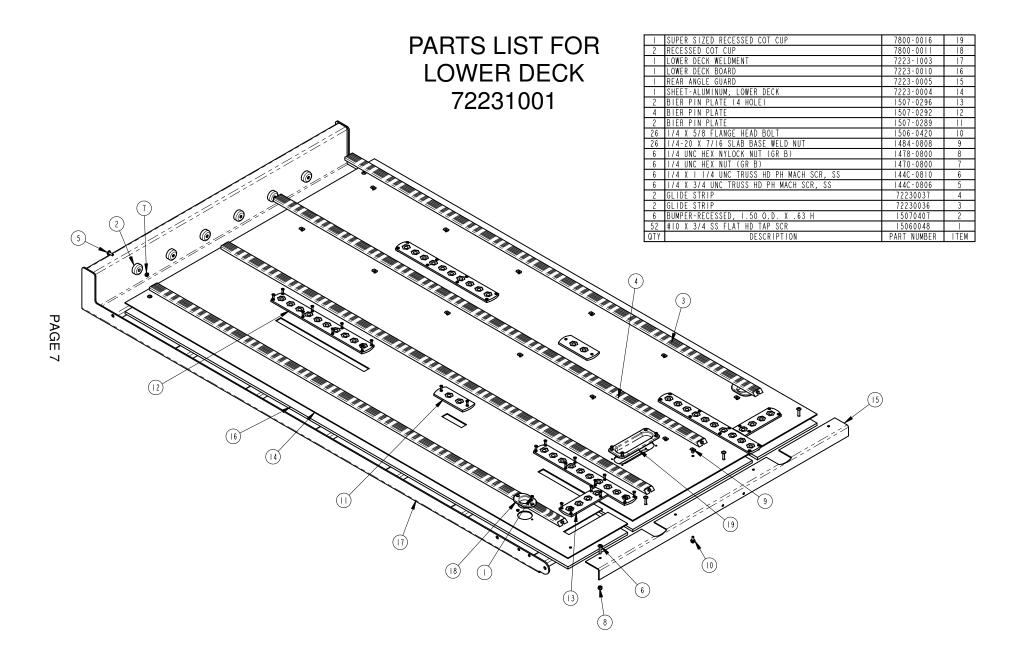
For vans with dual side doors, wire additional safety switches in series with first safety switch.

WIRE#:	GAUGE:	COLOR:	LENGTH:	CONNECTOR:	CONNECTS TO:	
1	10	RED	274"	12-10 FEMALE PUSH-ON, FULL INSUL.	FUSE, TERM. 1	
				NONE (STRIPPED)	OUT OF BOX TO 12 VDC (VEHICLE BATTERY)	
2	12	RED	9"	12-10 FEMALE PUSH-ON, FULL INSUL.	FUSE, TERM. 2	
				NONE (STRIPPED)	KEY SWITCH, TERM. 1	
3	12	YELLOW	126"	NONE (STRIPPED)	UP/DOWN CONTROL SWITCH, TERM. 1	
				NONE (STRIPPED)	OUT OF BOX TO YELLOW ACTUATOR LEAD	
4	12	RED	126"	NONE (STRIPPED)	UP/DOWN CONTROL SWITCH, TERM. 3	
				NONE (STRIPPED)	OUT OF BOX TO RED ACTUATOR LEAD	
5	12	BLACK	36"	NONE (STRIPPED)	UP/DOWN CONTROL SWITCH, TERM. 6	
				NONE (STRIPPED)	OUT OF BOX TO GROUND	
6	12	RED	7"	NONE (STRIPPED)	UP/DOWN CONTROL SWITCH, TERM. 2	
				12-10 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. 4	
7	12	BLACK	5.5"	NONE (STRIPPED)	UP/DOWN CONTROL SWITCH, TERM. 6	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 1	
8	14	BLUE	7"	22-18 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. 1	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 2	
9	14	RED	8"	22-18 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. B	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 4	
10	14	RED	8"	22-18 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. 8	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 4	
11	14	BLUE	6.5"	22-18 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. 5	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 3	
12	14	BROWN	150"	NONE (STRIPPED)	OUT OF BOX TODOOR SAFETY SWITCH, TERM. 4	
				NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 3	
13	14	BLUE	150"	NONE (STRIPPED)	OUT OF BOX TO DOOR SAFETY SWITCH, TERM. 3	
				NONE (STRIPPED)	KEY SWITCH, TERM. 2	
14	12	RED	7"	NONE (STRIPPED)	KEY SWITCH, TERM. 2	
				12-10 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. 7	
15	14	BROWN	6"	NONE (STRIPPED)	RESET PUSHBUTTON, TERM. 1	
				22-18 FEMALE PUSH-ON, FULL INSUL.	RELAY, TERM. A	





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I LIEET HAND WELDWENT	_			
I. RIGHT HAND FRANE WELDMENT		LEFT HAND LEVELING ARM		
2 FRONT LEG WELDMENT	_			
2 FRONT LEG WELDMENT		RIGHT HAND FRAME WELDMENT	7223-1007	
I LOWER TABLE		FRONT LEG WELDMENT		
I LOWER TABLE	\Box	UPPER TABLE	7223-1002	72
I BRACKET-RAMP, STOP				71
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5 DECAL-PINCH POINT				
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1 TAG-SERIAL, CABMATE		DECAL-PINCH POINT		
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2 RAMP HOLDER, FEMALE END 1500-0003 42 2 3/8 THREADED ROD 1496-1228 41 3 3/8 X 3 X 7 U-BOLT (SQUARE) 1495-0002 40 4 NYLON WASHER, I.I.D. X I I/4 O.D. X I/16 1491-3202 39 5 1/2 TYPE A PLAIN WASHER 1487-1600 38 2 77/16 TYPE A PLAIN WASHER 1487-1400 37 6 3/8 TYPE A PLAIN WASHER 1487-1200 36 4 1/4 TYPE A PLAIN WASHER 1487-1200 36 4 1/4 TYPE A PLAIN WASHER 1487-1200 36 4 1/4 TYPE A PLAIN WASHER 1487-1200 35 20 3/8 LOCK WASHER 1487-0800 35 20 3/8 LOCK WASHER 1487-0800 35 4 1/2 UNC SERRATED FLANGE NUT 1480-1600 33 4 3/8 UNC SERRATED FLANGE NUT 1480-1600 32 6 3/8 UNC HEX NYLOCK NUT (GR B) 1478-1200 31 4 3/8 UNC HEX NYLOCK NUT (GR B) 1478-1000 30 8 1/4 UNC HEX NYLOCK NUT (GR B) 1478-1000 30 5 1/2 UNC HEX TOP LOCK NUT (GR B) 1478-1600 29 5 1/2 UNC HEX TOP LOCK NUT (GR C) 1476-1601 28 2 1/2 UNF HEX JAM NUT 1475-1600 26 2 3/8 UNC HEX JAM NUT 1470-1600 26 2 3/8 UNC HEX JAM NUT 1470-1200 25 2 1/2 UNF HEX JAM NUT 1470-1200 25 2 1/2 UNF HEX JAM NUT 1470-1200 26 2 3/8 UNC HEX DAN HOLD HEX CREW 1440-006 21 2 1/2 UNF HEX JAM NUT 1470-1200 26 2 3/8 X 7/8 UNC HEX CAP SCR (GR 5) 1401-1640 19 1 1/2 X 4 UNC HEX CAP SCR (GR 5) 1401-1612 16 6 3/8 X 1 UNC HEX CAP SCR (GR 5) 1401-1612 16 6 3/8 X 1 UNC HEX CAP SCR (GR 5) 1401-1612 16 6 3/8 X 1 UNC HEX CAP SCR (GR 5) 1401-1612 16 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 12 2 1/4 X 1 1/4 UNC HEX CAP SCR (GR 5) 1401-1004 12 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 12 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 12 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 12 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 14 1 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 1401-1004 14	2			43
2 3/8 THREADED ROD			1500-0003	
3 3/8 X 3 X 7 U-BOLT (SQUARE)				
4 NYLON WASHER, I.D. X I/4 O.D. X I/16 1491-3202 39 5 I/2 TYPE A PLAIN WASHER 1487-1400 37 6 3/8 TYPE A PLAIN WASHER 1487-1400 36 36 3/8 TYPE A PLAIN WASHER 1487-1200 36 4 I/4 TYPE A PLAIN WASHER 1487-1200 36 4 I/4 TYPE A PLAIN WASHER 1487-0800 35 20 3/8 LOCK WASHER 1487-0800 35 20 3/8 LOCK WASHER 1487-0800 35 4 I/2 UNC SERRATED FLANGE NUT 1480-1200 32 4 I/2 UNC SERRATED FLANGE NUT 1480-1200 32 6 3/8 UNC HEX NYLOCK NUT (GR B) 1478-1200 31 4 3/8 UNC HEX NYLOCK NUT (GR B) 1478-1200 31 4 5/16 UNC HEX NYLOCK NUT (GR B) 1478-1000 30 4 5/16 UNC HEX NYLOCK NUT (GR B) 1478-1000 29 5 I/2 UNC HEX TOP LOCK NUT (GR C) 1476-1601 28 2 I/2 UNF HEX JAM NUT 1475-1600 26 2 I/2 UNF HEX JAM NUT 1475-1600 26 2 I/2 UNF HEX JAM NUT 1475-1600 26 2 I/3 UNC HEX NUT (GR B) 1470-1200 24 2 3/8 UNC HEX NUT (GR B) 1470-1200 24 2 1/4 X I UNC TRUSS HD PH MACH SCR, SS 144C-0808 22 1/4 X I UNC TRUSS HD PH MACH SCR, SS 144C-0808 22 1/4 X I UNC TRUSS HD PH MACH SCR, SS 144C-0808 22 1/4 X I UNC TRUSS HD PH MACH SCR, SS 144C-0808 22 1/4 X I UNC TRUSS HD PH SCREW 1440-1207 20 21 22 X I X I X I X I UNC HEX CAP SCR (GR S) 1401-1614 17 1/2 X X I X I X I UNC HEX CAP SCR (GR S) 1401-1614 17 1/2 X I X I X I UNC HEX CAP SCR (GR S) 1401-1616 16 3/8 X I X UNC HEX CAP SCR (GR S) 1401-1616 16 3/8 X I X UNC HEX CAP SCR (GR S) 1401-1616 16 3/8 X I X I UNC HEX CAP SCR (GR S) 1401-1004 12 2 1/4 X I I I I UNC HEX CAP SCR (GR S) 1401-1004 12 1/4 X I I I I I I I I I I I I I I I I I I				
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4 1/4 TYPE A PLAIN WASHER		7/10 TYDE A DLAIN WASHER		
4 1/4 TYPE A PLAIN WASHER		1/16 TIPE A PLAIN WASHER	1487-1400	
20 378 LOCK WASHER	<u> </u>	3/8 TYPE A PLAIN WASHER	1487-1200	
4 1/2 UNC SERRATED FLANGE NUT		1/4 IYPE A PLAIN WASHER		
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4 S/16 UNC HEX NYLOCK NUT (GR B)		3/8 UNC SERRATED FLANGE NUT		
8	6	3/8 UNC HEX NYLOCK NUT (GR B)	1478-1200	31
S 1/2 UNC HEX TOP LOCK NUT (GR C)	4	5/16 UNC HEX NYLOCK NUT (GR B)	1478-1000	30
S 1/2 UNC HEX TOP LOCK NUT (GR C)	8	I/4 UNC HEX NYLOCK NUT (GR B)	1478-0800	29
2 1/2 UNF HEX JAM NUT 14TREADS 1475-1601 27 2 1/2 UNF HEX JAM NUT 1475-1600 26 2 3/8 UNC HEX JAM NUT 1475-1600 26 2 3/8 UNC HEX JAM NUT 1475-1600 26 2 4 3/8 UNC HEX JAM NUT 1470-1200 25 2 4 3/8 UNC HEX NUT (GR B) 1470-1200 24 2 1/4 X 1/4 DRIVE SCREW 1455-0404 23 2 1/4 X 1 UNC TRUSS HD PH MACH SCR, SS 144C-0808 22 2 1/4 X 3/4 UNC PHIL HD CSK MACH SCR 1444-0806 22 2 1/8 X 7/8 UNC HEX SCREW 1440-1207 20 2 1/2 X 5 UNC HEX SCREW GR 5) 1401-1640 19 1 1/1/2 X 4 UNC HEX CAP SCR (GR 5) 1401-1640 19 1 1/1/2 X 4 UNC HEX CAP SCR (GR 5) 1401-1612 18 4 1/2 X 1 3/4 UNC HEX CAP SCR (GR 5) 1401-1612 16 16 3/8 X 1 UNC HEX CAP SCR (GR 5) 1401-1612 16 16 3/8 X 1 UNC HEX CAP SCR (GR 5) 1401-1612 16 16 3/8 X 3/4 UNC HEX CAP SCR (GR 5) 1401-1612 16 15 3/8 X 3/4 UNC HEX CAP SCR (GR 5) 1401-1006 13 2 5/16 X 3/4 UNC HEX CAP SCR (GR 5) 1401-1006 13 2 5/16 X 1/2 UNC HEX CAP SCR (GR 5) 1401-1006 13 2 1/4 X 1 1/4 UNC HEX CAP SCR (GR 5) 1401-1006 13 2 1/14 X 1 1/4 UNC HEX CAP SCR (GR 5) 1401-1006 13 1 DECLARATION OF CONFORMITY, DD200-EXI 72232341 9 1 INSTRUCTIONS-INSTALLATION 72232341 9 1 INSTRUCTIONS-INSTALLATION 72232341 9 1 INSTRUCTIONS-INSTALLATION 72232340 8 1 BOX-CONTROL, CE 72232117 7 1 BRACKET-RAMP MOUNT 72231014 6 1 RAMP WELDMENT 72231013 5 1 RAMP WELDMENT 72231014 6	5	1/2 UNC HEX TOP LOCK NUT (GR C)	1476-1601	28
2 1/2 UNF HEX JAM NUT		1/2 UNF HEX JAM NUT LH THREADS	1475-1601	27
2 3/8 UNC HEX JAM NUT 2 4 3/8 UNC HEX NUT (GR B) 2 4 3/8 UNC HEX NUT (GR B) 2 14 X 1/4 DRIVE SCREW 3 1455-0404 2 3 2 14 X 1/4 DRIVE SCREW 4 1/4 X 1 UNC TRUSS HD PH MACH SCR, SS 4 1/4 C 2008 2 2 1/4 X 1 UNC TRUSS HD PH MACH SCR, SS 4 1/4 C 2008 2 2 1/4 X 1 UNC HEX SCREW 4 1/4 X 3/4 UNC PHL HD C SK MACH SCR 4 1/4 C 2008 2 1/2 X 5 UNC HEX CAP SCR (GR 5) 4 1/2 X 5 UNC HEX CAP SCR (GR 5) 4 1/2 X 1 3/4 UNC HEX CAP SCR (GR 5) 4 1/2 X 1 3/4 UNC HEX CAP SCR (GR 5) 4 1/2 X 1 3/4 UNC HEX CAP SCR (GR 5) 4 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 4 1/2 X 1 1/2 UNC HEX CAP SCR (GR 5) 4 1/6 3/8 X 1/4 UNC HEX CAP SCR (GR 5) 5 1401-1612 6 16 3/8 X 3/4 UNC HEX CAP SCR (GR 5) 7 1401-1612 7 1/6 X 3/4 UNC HEX CAP SCR (GR 5) 7 1401-1061 7 1/6 X 3/4 UNC HEX CAP SCR (GR 5) 7 1401-1066 7 1/6 X 3/4 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 7 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 8 1/6 X 3/4 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/2 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX CAP SCR (GR 5) 9 1/6 X 1/7 UNC HEX				
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PARTS LIST FOR UPPER DECK 72231002

