

MOUNTING KIT

52295-MKPB

W1500 Ram 4x4 (Except Sport) 1994-2001

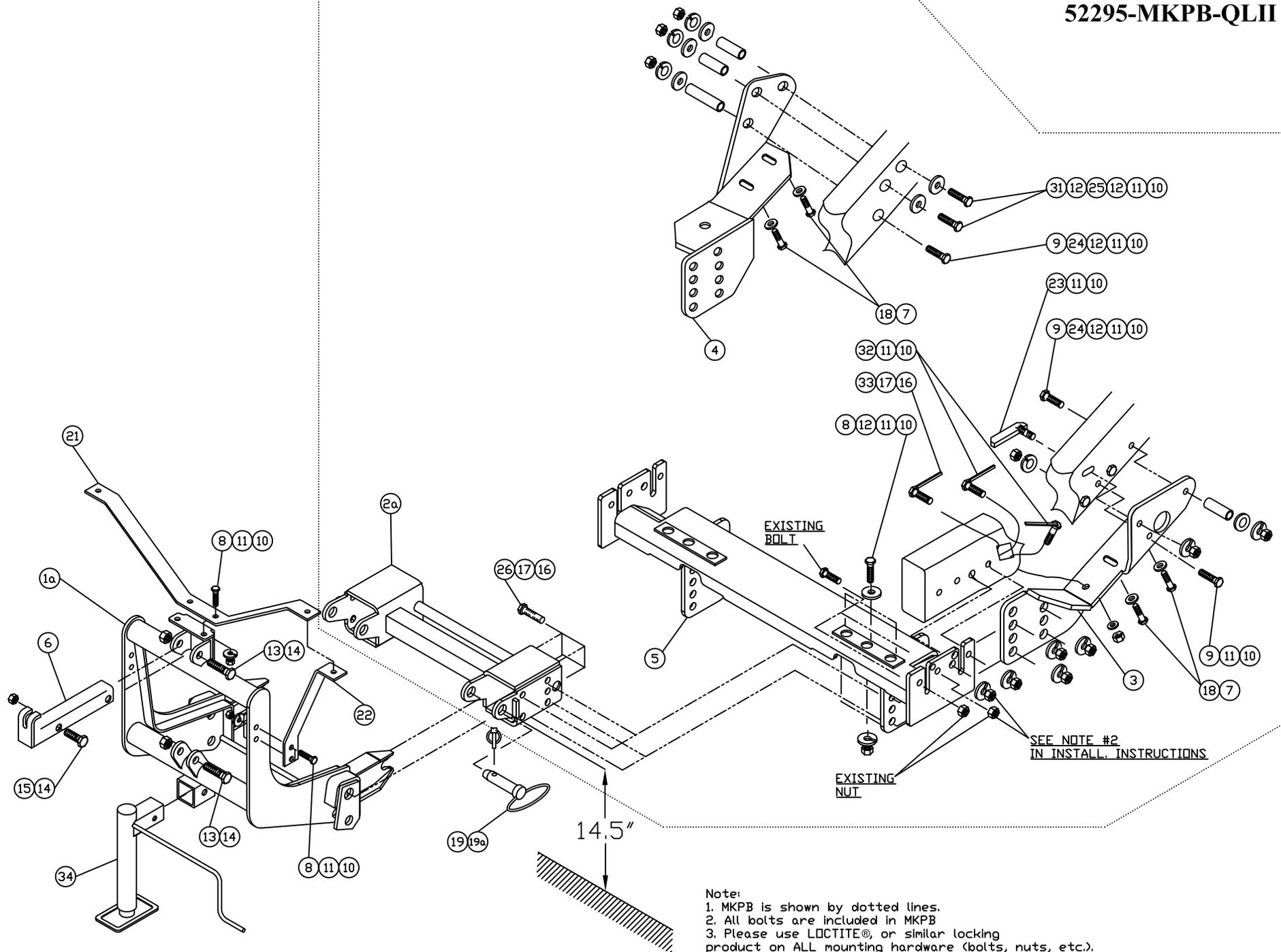
W2500 Ram 4x4 (Except Sport) 1994-2002

W3500 Ram SRW 4x4 (Except Sport) 1994-2002

W3500 Ram DRW 4x4 (Except Sport) 1994-2002

(Note: For the snowplow lights this kit requires: 800067 or 800037AXV Light kit, 767042 Adapter Kit (vehicle's headlamp bulb H9004))

MOUNTING KIT 52295-MKPB-QLII



- Note:
1. MKPB is shown by dotted lines.
 2. All bolts are included in MKPB
 3. Please use LOCTITE®, or similar locking product on ALL mounting hardware (bolts, nuts, etc.).

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52295-MKPB R12
 INST0022

Mounting Kit 52295-MKPB								
Item	Part #	Description	MKPB	MKPB-QLII	QL-MKB	QLII-MKB	QLII-HI	QLII-HI-DLC
1*	52162-C	Lift Frame			1			
1a	53170-D-GA	Lift Frame, QUIK*LINK ® II Galvanized				1		
1b*	53171-D-GA	Lift Frame, QUIK*LINK ® II-Hi boy, Galvanized					1	
2*	52166-C	Spreader Bar	1					
2a	52363-C	Spreader Bar QLII		1				
3	52175-B	Thrust Arm Driver Side		1				
4	52178-B	Thrust Arm Curb Side		1				
5	52570-D	Mounting Bracket		1				
6	50069-C-GA	Lift Channel Galvanized				1		
6a*	52612-B-GA	Lift Channel (2" cylinder) Galvanized						1
7	HH-00933-003	10mm Lock washer		4				
8	HH-00972-090	½"x1.1/2" UNF Cap screw		12				
9	HH-00972-100	½"x4" UNF Cap screw		3				
10	HH-00460-002	½" UNF Hex Nut		22				
11	HH-00457-001	½" Lock washer		22				
12	HH-00341-006	½" Flat washer		12				
13	HH-00972-153	¾"x3.1/2" UNF Cap screw		2				

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Item	Part #	Description	MKPB	MKPB-QLII	QL-MKB	QLII-MKB	QLII-HI	QLII-HI-DLC
14	HH-00973-007	3/4" UNF Thin Collar Locknut		3				
15	HH-00972-149	3/4"x2.1/2" UNF Cap screw		1				
16	HH-00460-001	5/8" UNF Hex Nut		10				
17	HH-00457-003	5/8" Lock washer		10				
18	HH-00909-023	M10x45mm Metric Bolt Gr 8.8		4				
19	WA-34704-M	Mounting Pin QLI, Ass'y			2			
19a	52348-M	Mounting Pin Ass'y					2	
21	52209-B-GA	Light Antler Galvanized				1		
22	52208-B-GA	Light Brace Galvanized		2				
23	52161-A	Thrust Arm Fastener		1				
24	52195-A	3 1/16" Spacer		2				
25	52200-A	2 3/16" Spacer		2				
26	HH-00972-131	5/8"x2.1/4" Cap screw		8				
27*	HH-00457-006	1/4" Lock washer		4				
28*	HH-00341-002	1/4" Flat washer		4				
29*	HH-00294-001	1/4" Hex Nut		4				
30*	HH-00293-006	1/4"x1" UNC Cap screw		4				
31	HH-00972-098	1/2"x3.1/2" UNF Cap screw		2				
32	52575-A	1/2"x1 1/2 UNF bolt with handle		4				

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Item	Part #	Description	MKPB	MKPB-QLII	QL-MKB	QLII-MKB	QLII-HI	QLII-HI-DLC
33	52575-01-A	5/8"x1 ½ UNF bolt with handle		2				
34	52373-M	Jack Assembly					1	
35*	50999-B	Blade guides				2		
36*	HH-00972-155	3/4" x 4" UNF Cap screw					2	

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Note: * These items are not shown on the drawing.

General Snowplow Application Information

Every Dodge Truck snowplow application requires 4x4 drive train model. These models also require a factory installed "Snowplow Preparation Package" option; either sales code AHH or AHD. Next, let's cover the specific model by model information.

1998 DODGE RAM REGULAR CAB PICKUP

1998 MY Ram regular cab pickups now have two distinct groupings. The first group consists of all half-ton models. **1998 MY BR1500 models are not available for snowplow applications.** This new "unfavourable" result is due to many changes with weight analysis factors that, in combination, placed a maximum plow blade weight limit of only 370lbs. This blade weight limitation was considered unacceptable to the marketplace.

The second Ram regular cab pickup group contains all 3/4 and 1 ton models. These BR2500HD and BR3500 models remain acceptable for snowplow applications. Trucks with either 5.9L or 8.0L gas engines can handle blades that weigh up to 710lbs. Diesel engine equipped models have a maximum plow blade weight limit of 543lbs.

1998 MY DODGE RAM CLUB CAB PICKUP

The list of NEW snowplow applications starts with several Ram club cab pickup models. Acceptable club cab models are BR2500HD, both short and long wheelbase versions, and BR3500. These models must be equipped with 5.9L gas engines. Maximum plow blade weight limit on these trucks is 710lbs.

1998 MY DODGE RAM CHASSIS (regular) CAB

The other NEW model additions to Dodge's 1998 MY snowplow program are all Ram chassis cab 2500HD and 3500 models. These models have a "late" availability and must be outfitted with the required snowplow preparation package.

MONRONEY LABEL

Finally, one part of our action plan to educate Dodge dealers about correct snowplow applications is to add a note to the Monroney label on Dodge Dakota and Dodge Ram 4x4 models without the factory installed snowplow preparation package. This note is targeted for placement in the Consumer Information portion of the label and reads as follows:

"This vehicle not factory equipped for snowplow installation - see dealer for details."

2001 DODGE RAM TRUCKS SNOWPLOW APPLICATIONS (ONLY 4X4) HEAVY DUTY APPLICATIONS (PACKAGE CODE AHD)

Model Descr.	WB	P/U Box	GVWR	FGAWR	Engine
2500 Reg. Cab.	134.7"	8.0'	8800	5200	EML, ETC,ETH*, EWA
3500 Reg. Cab.	134.7"	8.0'	10500	5200	EML, EMM,ETC, EWA
2500 Quad Cab	138.7"	6.5'	8800	5200	EML, ETC,ETH*, EWA

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2500 Quad Cab	154.7"	8.0'	8800	5200	EML, ETC, EWA
3500 Quad Cab	154.7"	8.0'	11000	5200	EML, EMM, EWA
2500 Cab Chassis	134.7"	None	8800	5200	EML, ETC,ETH*, EWA
3500 Cab Chassis	138.7"	None	11000	5200	EML,EMM,ETC,ETH*, EWA
3500 Cab Chassis	162.7"	None	11000	5200	EML,EMM,ETC,ETH*, EWA

* New for 2001 Model Year

Engine Codes:

EML: 5.9L V8 Gas L/D	EWA: 8.0L V10 Gas	ELF: 5.2L V8 Gas
EMM: 5.9L V8 Gas H/D	ETC: 5.9L I-6 Diesel	ETH: 5.9L I-6 High Output Diesel

NOTES FOR HEAVY DUTY SNOWPLOWS

- At any time, the maximum number of occupants should NOT exceed two.
- Cab Chassis Snowplow availability is dependent on Complete Vehicle Weight Analysis and under any circumstances GVWR and front and rear GAWRs should not be exceeded.
- Following ballast must be applied inside the box at 8" from the rear tailgate for pickups:

2500 Regular Cab 8.0' Box	ETH Engines	200 lbs
2500 Quad Cab 6.5' Box	ETH Engines	200 lbs
2500 Quad Cab 8.0' Box	ETC Engines	300 lbs

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-Following models are new for 2001 Model Year

2500/3500 Regular Cab	ETH Engines
2500/3500 Cab Chassis	ETH Engines
2500 Quad Cab 6.5' Box	ETH Engines

-The total weight of snowplow and hardware should not exceed 633 lbs.

LIGHT DUTY APPLICATIONS (PACKAGE CODE AHH)

Model Description	WB	P/U Box	GVWR	FGAWR	Engine
1500 Regular Cab	118.7"	6.5'	6400	3865	ELF, EML

NOTES FOR LIGHT DUTY SNOWPLOWS:

- Permanent hardware is based on average weight of 90 lbs.
- The limitations are based on 2 occupants (each weighing 150 lbs.)
- 250 lbs of ballast applied inside the box at 8.0" from the rear tailgate.
- Total weight of plow and hardware not to exceed 525 lbs.

General Notes:

- Snowplow prep packages are NOT available with Sport (AGG) and off road (AWL) packages.
- At any time, the GVWR, front and rear GAWRs should not be exceeded
- All the analysis information is for base vehicle and cargo capacity will be reduced by the addition options, passengers etc.

GENERAL

Customer must be aware of following:

Arctic Equipment Manufacturing Corporation (Arctic) does not assume liability for damage to your motor vehicle resulting from the attachment or use of an Arctic snowplow. The purchaser assumes all vehicle risk associated with the attachment and operation of this snowplow.

The Arctic snowplow you purchase must be used only on vehicles equipped with the manufacturer's snow plow preparation

packages. Snow plowing without the original plow preparation package may damage your vehicle. The added weight may impair the operation and control of your vehicle. Snow plowing with a vehicle not recommended for that purpose by the manufacturer may void your new vehicle warranty. If your vehicle is not equipped with an original snow plow preparation package, additional equipment may be necessary before snow plowing. Please consult your vehicle and snowplow dealers prior to the purchase and installation of the snowplow. The installation of such parts however is not a full substitute for the original equipment snowplow preparation package.

Before drilling any holes in the firewall or frame, move brake lines, fuel lines and/or electrical wiring from the path of the drill. Brake and fuel lines must also be clear of any fasteners.

All bolts should be installed from the inside of the truck frame so that the lock washers and nuts are accessible for re tightening (where possible).

If a slotted hole in the truck frame is utilized, then a flat washer must be used under the bolt head. If a flat washer is used under a lock washer use LOCTITE #242. Also use this LOCTITE #242 if existing (vehicle) bolts and nuts are used.

General order of installation:

- install all components (mounting bracket, thrust arm and spreader bar) and all fasteners finger tight (snug) through existing holes,
- drill necessary holes and
- tighten all hardware.

After first use, re-tighten all mounting bolts, thereafter check mounting bolt tightness periodically and at the start of the season.

Before proceeding, read instructions carefully and familiarize yourself with the components and hardware.

INSTALLATION INSTRUCTIONS

1. **DO NOT REMOVE** bumper from truck. Remove plastic moulded air dam if it is on vehicle.
2. Remove two front bumper bolts (upper and lower), cut strap that connects these two bolts and put back upper bolt in it's place and tighten it. Now remove third bumper bolt. Install mounting bracket (floor jack may help installation) into place. Install two bumper bolts and 5/8" bolt with handle, lock washer and nut (33)(17)(16) through hole in frame as shown on picture. Install six

½" bolts, flat washers, lock washers and nuts (8)(12)(11)(10) in cross member. Drill 9/16" hole through side of frame using hole in mounting bracket as guide. Install two ½" bolts with handle as shown, lock washers and nuts (32)(11)(10).

Note: This mounting bracket will fit on both trucks from 94' till 96' and 97' - up. Position of hole for 5/8" welded bolt (33) may vary, depending on year and model, same will position of existing ½" bumper hole. The mounting bracket has two sets of holes to allow proper fit on both of the above chassis. Align bracket so that three holes in mounting bracket align with existing holes in frame. The bumper may have to be adjusted down in order to align with bottom of slot in chassis and hole in mounting bracket.

3. Remove four bolts holding sway brace to the under side of the truck frame. Allow sway brace to drop gently and hang by the ends.
4. Install thrust arm fastener (23) through slot in outer frame rail, in front of steering box (driver side).
5. Install thrust arms (3), (4) so that mounting holes are outside of mounting holes of mounting bracket. Locate so that thrust arms are mounted between sway brace and frame. Use four metric bolts M10x45mm (18)(7) and locks to hold thrust arms and sway bracing in place. It is advised to use LOCTITE # 242 on the four bolts. **Do not over torque** as threaded hole will strip Use thrust arm fastener (23) (step # 4), ½" lock washer (11) and ½" nut (10) to attach driver's side thrust arm (11)(10) through upper front hole.
6. Install spreader bar (2a) so that it is mounted inside of the mounting bracket (5) and the thrust arms (3), (4) are on the outside of the mounting bracket (5), using 5/8"x 2-1/2" bolts (26), (17), (16). The spreader pin hole should be located 14-1/2" (+/- ½") off the ground.
7. Using the thrust arm as a guide, drill 17/32" holes through the inside frame rail. (If sway bar is in the way, jack up truck using spreader bar.) Use a die grinder or 27/32" drill to open holes in outer frame rail. Insert bolts from inner side of frame. Use two set of bolts (31)(12)(25)(12)(11)(10) and two set of (9)(24)(12)(11)(10). Slide pipe sleeves from outside of frame over bolts, then flat washers, lock washers and nuts (12), (11), (10). A sleeve is not necessary on the drivers' side lower hole as there is already a spacer on the steering box bolt. Install ½" bolt, lock washer and nut (9)(11)(10).
8. Drill 9/16" hole through the bottom of frame using hole on thrust arm as a guide. Install two ½" bolts, lock washers and nuts (32)(11)(10) with handle through hole shown on drawing.
9. Tighten all mounting hardware.
10. To install lift frame (1a)(1b), slide inside of spreader bar (2a). Insert mounting pin (19a) in the top holes of the spreader bar (2a).

11. Fasten the light antler (21) to the top of the lift frame using 1/2"x1.1/2" bolt, lock washer and nut (8), (10), (11). **DO NOT TIGHTEN.** Fasten the light brace (22) to both sides of the lift frame, using 1.1/2" bolt, lock washer and nut (8), (10), (11). **DO NOT TIGHTEN.** Install plow lamps so that the stud is through the light antler (21) and light brace (22).

12. Tighten all light mounting hardware.

13. Fasten lift channel (6), (6a) and lift cylinder (or power unit) to the lift frame (1) using 3/4"x3.1/2" bolts (13) and 3/4" locknut (14). Use 3/4"x2.1/2" bolt (15) and 3/4" locknut (14) to attach lift cylinder to lift channel. **NOTE:** Do not over tighten as this assembly must be able to pivot.

TORQUE CHART (FT. LB.)		
SIZE	GRADE 5 BOLT 	GRADE 8 BOLT 
1/4 - 28	8	11
5/16 - 24	15	22
3/8 - 24	28	40
7/16 - 20	44	63
1/2 - 20	69	97
5/8 - 18	138	195
3/4 - 16	241	341
<small>Note: Torque values are for plated bolts only</small>		

14. Return any unused items to the customer so that the vehicle can be returned to its original condition if the snowplow is removed.

15. See separate installation instructions for the hydraulic pump, wiring and controls.