

INSTALLATION INSTRUCTIONS AND PARTS LIST

MODEL 415114, GRIP STEPS (BOARDS ONLY)

UNIVERSAL APPLICATIONS

1. Read instructions completely and check to make sure that all required parts (listed on the service parts list) are on hand before starting the installation.
2. Follow the instructions included with the specific bracket package to mount the brackets to your vehicle.
3. Step assembly:
 - 3.1 This Board can be modified from its original length to fit many applications. Simply determine how long you will need the board, and cut to that length using a saber saw, chop saw, or hack saw. Use flat black paint to touch up the ends that were cut.
 - 3.2 Before attaching the grip steps to the brackets, slide the appropriate number of support braces (item #2) into the channel of the step (item #1).
 - 3.3 Slide the end cap (item #3) over the front and rear of each step. Using the supplied #8 x 1/2" self drilling tek screw (item #8), screw the end cap to the bottom of the step.
4. Attaching the step to the mounting bracket:
 - 4.1 Set the step on the mounting brackets, and slide each support brace over the top of each mounting bracket. Attach the flat spacer plate (item #4) to the bottom of the step, between the support brace, and the top of the mounting bracket.
 - 4.2 Using the supplied 5/16-18 x 1" carriage bolt, washer, and flange nuts, (item #5, 6, 7), attach the step assembly, flat spacer plate and mounting bracket. **(NOTE: Some of the flange nuts are supplied in the specific bracket package, not the step package.)**
 - 4.3 Set the step plate in the correct position and tighten all fasteners.
Torque all fasteners to 19 LB FT.

SERVICE PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
1	551888	2	EXTRUSION-AL,97.87,GRIP STEP,BLK,415098
1	551889	2	EXTRUSION-AL,101.25,GRIP STEP,BLK,415102
1	551388	2	EXTRUSION-AL,113.62,GRIP STEP,BLK,415114
2	551296	10	SUPPORT BRACE, UPPER, GALV.
3	551394	4	CAP-END,GRIP STEP, BLACK, PLASTIC
4	551298	14	SPACER PLATE, LOWER, BLACK
5	108683	20	BOLT-CRG,5/16-18 X 1.0", SST
6	101369	20	WASHER-FLAT,5/16,SST
7	102680	20	NUT-SERR FLG,HX,SST,WX,5/16-18
8	107958	8	SCR-TEK #8-18 X 1/2",SST,BLK



1200 E. Birch St.

Brandon, SD 57005

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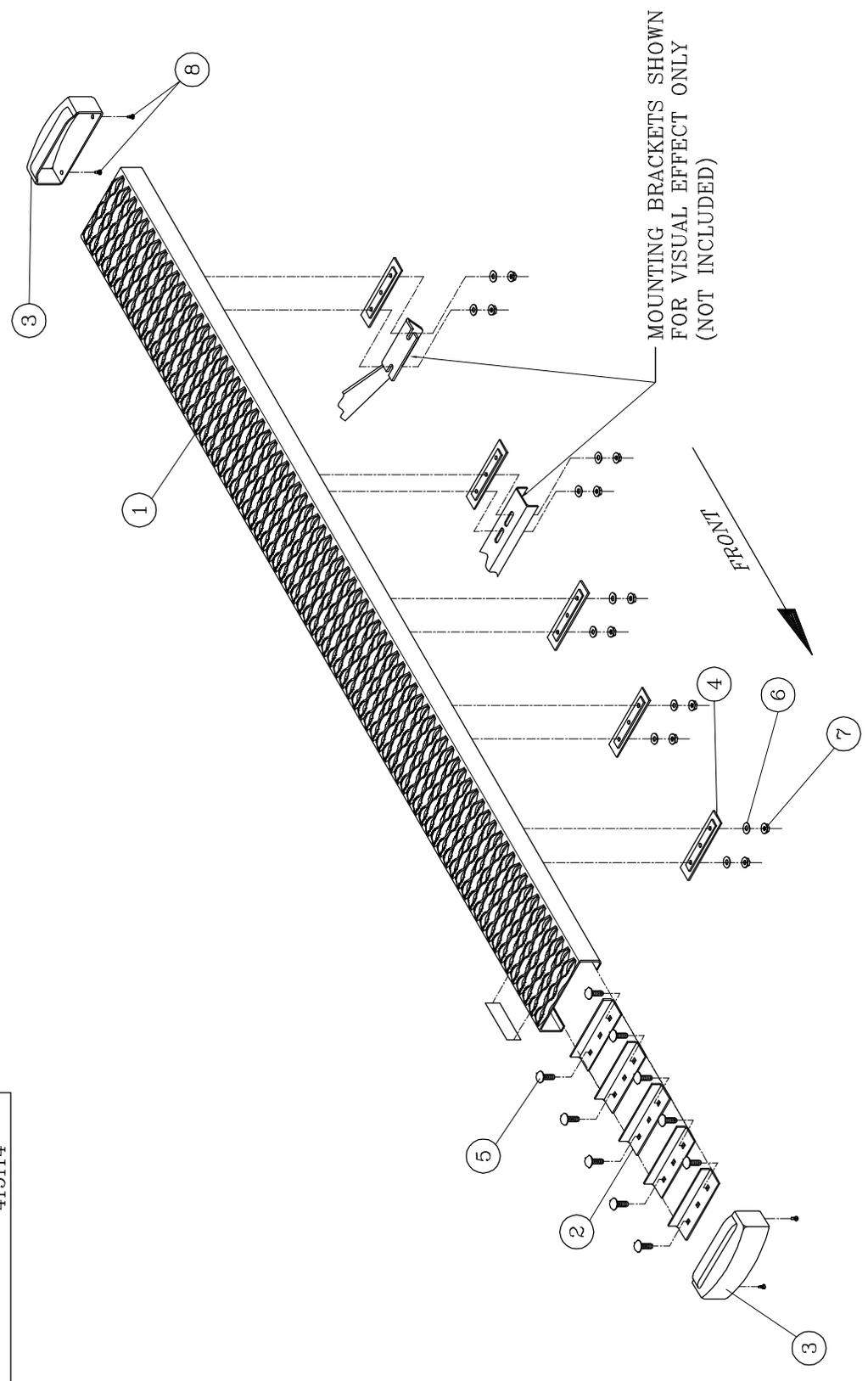
REV B 03DEC10

REV A 10JUL09

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SERVICE PARTS LIST

MODEL NO. - 415098
 415102
 415114



INSTALLATION INSTRUCTIONS AND PARTS LIST

APPLICATION:

MODEL 401117 WHEEL TO WHEEL STEP BRACKETS:

1999 GM SILVERADO & SIERRA REGULAR/EXTENDED/CREW CAB PICKUPS



1. READ INSTRUCTIONS COMPLETELY AND CHECK TO MAKE SURE THAT ALL REQUIRED PARTS (LISTED ON SERVICE PARTS LIST) ARE ON HAND BEFORE STARTING THE INSTALLATION.
2. ASSEMBLE THE LOAD REACTION STUDS AND HARDWARE (ITEM #8 THRU #11) AS FOLLOWS.
 - 2.1. ON THE SHORT THREADED END OF THE LOAD REACTION STUD (ITEM #11), INSTALL A BLACK 3/8" SERRATED FLANGE NUT (ITEM #10) BACKWARDS TO THE BOTTOM OF THE THREAD. THEN, INSTALL A BLACK 3/8" FLAT WASHER (ITEM #9) AND RUBBER "CUSHION" WASHER (ITEM #8) TIGHT UP AGAINST THE SERRATED FLANGE NUT. (THE END OF THE STUD MUST BE RECESSED IN THE RUBBER WASHER APPROX. 3/16").
 - 2.2. ON THE LONG THREADED END OF THE STUD, INSTALL A BLACK 3/8" SERRATED FLANGE NUT (ITEM #10) BACKWARDS TO NEAR TO THE BOTTOM OF THE THREADS
3. ATTACH THE LOAD REACTION STUD ASSEMBLIES TO THE BODY MOUNTING BRACKETS AS SHOWN.

NOTE: IF YOU ARE MOUNTING THE STEPS ON A 1500 MODEL PICKUP, YOU MUST ATTACH BRACKET (ITEM #14) TO BRACKETS (ITEM #1 & 2) (SEE FIG 1.) IN ORDER TO USE THE LOAD REACTION STUD.

- 3.1. INSERT THE STUD, FROM THE INBOARD SIDE OF THE BRACKET THRU THE LOWEST HOLE IN THE BENT FLANGE THAT WILL ALLOW THE RUBBER WASHER TO SEAT FIRM AGAINST THE SIDE WALL OF THE FRAME. INSTALL A BLACK FLANGE NUT (ITEM #10) ON THE OUTBOARD END OF THE STUD (FINGER TIGHT ONLY).

NOTE:

DUE TO EXCESSIVE THREAD LOCKER IN THE BODY MOUNT BOLT AREA ON THE 2010+ GM SILVERADO/SIERRA, USE CAUTION WHEN REMOVING THE BODY MOUNT BOLTS TO REDUCE THE RISK OF CAUSING DAMAGE TO THE THREADED INSERTS INSIDE THE VEHICLE.

4. REMOVE THE FACTORY FRONT, CENTER, AND REAR BODY MOUNT BOLTS (ONE SIDE OF THE VEHICLE AT A TIME) AND INSTALL THE MOUNTING BRACKETS PER THE FOLLOWING INSTRUCTIONS.
 - 4.1. INSTALL THE FRONT MTG BRKT (ITEM #1 & #2) TO THE FRONT CAB MOUNT AS SHOWN (LEAVE THESE FASTENERS FINGER TIGHT).
 - 4.2. INSTALL THE CENTER MTG BRKT (ITEM #3 & #4) TO THE CENTER CAB MOUNT AS SHOWN (LEAVE THESE FASTENERS FINGER TIGHT).
 - 4.3. INSTALL THE REAR INBOARD MTG BRKT (ITEM #7) & WASHER (ITEM #13) TO THE REAR CAB MOUNT AS SHOWN (LEAVE THESE FASTENERS FINGER TIGHT) (EXTENDED AND CREW CAB ONLY).



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MODEL 401117 WHEEL TO WHEEL STEP BRACKETS:

1999 GM SILVERADO & SIERRA REGULAR/EXTENDED/CREW CAB PICKUPS

EXTENDED CAB ONLY

- 4.3.1. ATTACH THE REAR OUTBOARD CAB MTG BRKT (ITEM #5 & #6) TO THE REAR INBOARD CAB MTG BRKT (ITEM #7), WITH THE 3/8" BLACK ZINC PLATED BOLTS (ITEM # 12), WASHERS (ITEM #9) AND SERRATED FLANGE NUTS (ITEM # 10). THE REAR OUTBOARD CAB MTG BRKT MUST BE MOUNTED TO THE BACK SIDE OF THE REAR INBOARD CAB MTG BRKT (TOWARDS THE REAR OF THE VEHICLE) AS SHOWN. BE SURE TO USE THE BOTTOM SINGLE HOLE AND BOTTOM DOUBLE HOLES IN THE REAR INBOARD CAB MTG BRKT (SEE FIG 1). PUT THE BOLTS THROUGH THE FRONT SIDE OF THE BRACKET SO THE FLANGE NUTS ARE ON THE BACK SIDE TO ALLOW CLEARANCE FOR THE FRAME OF THE TRUCK. TORQUE THE BOLTS TO 19 LB. FT.

CREW CAB ONLY

- 4.3.2. INSTALL THE REAR OUTBOARD CAB MTG BRKT (ITEM #5 & #6) TO THE REAR INBOARD CAB MTG BRKT (ITEM #7), WITH THE 3/8" BLACK ZINC PLATED BOLTS (ITEM # 12), WASHERS (ITEM #9) AND SERRATED FLANGE NUTS (ITEM # 12). THE REAR OUTBOARD CAB MTG BRKT MUST BE MOUNTED TO THE BACK SIDE OF THE REAR INBOARD CAB MTG BRKT (TOWARDS THE REAR OF THE VEHICLE) AS SHOWN. BE SURE TO USE THE BOTTOM SINGLE HOLE AND TOP DOUBLE HOLES IN THE REAR INBOARD CAB MTG BRKT (SEE FIG 1). PUT THE BOLTS THROUGH THE FRONT SIDE OF THE BRACKET SO THE FLANGE NUTS ARE ON THE BACK SIDE TO ALLOW CLEARANCE FOR THE FRAME OF THE TRUCK. TORQUE THE BOLTS TO 19 LB. FT.
5. ATTACH THE SPRING HANGER MOUNTING BRACKETS (ITEM # 22 & #23) AGAINST THE SIDE OF THE VEHICLE SPRING HANGER AS SHOWN
 - 5.1. LOOSEN THE SPRING HANGER BOLT JUST ENOUGH SO THAT THE INBOARD SPRING HANGER MTG BRKT (ITEM #23) CAN BE SLID UP BEHIND THE FLANGE OF THE BOLT. POSITION THE INBOARD SPRING HANGER MTG BRKT BEHIND THE FLANGE OF THE SPRING HANGER BOLT, WITH THE CHANNEL OPEN TO THE OUTBOARD SIDE, AS SHOWN.
 - 5.2. INSTALL THE OUTBOARD SPRING HANGER MTG BRKT (ITEM #22) SO THAT THE INBOARD VERTICAL PORTION OF THE BRACKET FITS INSIDE THE CHANNEL SHAPE OF THE INBOARD SPRING HANGER MTG BRKT USING THE 3/8" ZINC PLATED BOLT (ITEM #20), 3/8" WASHER (ITEM #21), 1/2" WASHER (ITEM #18), AND 3/8" ZINC PLATED NYLOCK NUT (ITEM #19) AS SHOWN. DO NOT TIGHTEN THESE BOLTS UNTIL THE BRACKET IS ATTACHED TO THE STEP ASSEMBLY.
 6. ATTACHING THE STEP ASSEMBLY:
PLEASE REVIEW THE INSTALLATION INSTRUCTIONS THAT ARE INCLUDED IN YOUR STEP ASSEMBLY FOR SPECIFIC DETAILS

TIGHTEN THE BODY MOUNT BOLTS PER MANUFACTURERS SPECS.
TIGHTEN THE SPRING HANGER BOLT PER MANUFACTURERS SPECS



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MODEL 401117 WHEEL TO WHEEL STEP BRACKETS:

1999 GM SILVERADO & SIERRA REGULAR/EXTENDED/CREW CAB PICKUPS

SERVICE PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
PARTS INCLUDED IN BRACKET PACKAGE			
1	551868	1	BRACKET-MTG, CAB, FRONT, LH, 401117
2	551869	1	BRACKET-MTG, CAB, FRONT, RH, 401117
3	551870	1	BRACKET-MTG, CAB,CENTER, LH, 401117
4	551871	1	BRACKET-MTG, CAB, CENTER, RH, 401117
5	551890	1	BRACKET-MTG, CAB, REAR, OUTBOARD, LH, 401117
6	551891	1	BRACKET-MTG, CAB, REAR, OUTBOARD, RH, 401117
7	551907	2	BRACKET-MTG, CAB, REAR, INBOARD, LH/RH, 401117
8	102592	6	WSHR, RUBBER, .354 ID X 1.00 OD X .75 THK
9	106962	12	WSHR, FL, 3/8", .438 ID X 1.00 OD X .083" THK, BZP
10	106995	24	NUT, SERR FLG, HEX, 3/8-16 UNC, BZP
11	106960	6	STUD, -DBL ENDED, STL, 3/8-16 X 4.50", BZP
12	106963	6	BOLT, 3/8-16X1.00, BZP
13	108882	2	WSHR, FL, .59 ID X 1.06 OD X .19 THK, ZP
14	551571	2	BRKT, 90 DEGREE, 3 HOLES
15	106997	2	SCREW, HHC, 5/16-18X1.00, BZP
16	106996	2	NUT-SERR FLG, 5/16-18, BZP
17	106998	2	WSHR-FL,SST,5/16",BZP
18	100118	4	WASHER-FL, 1/2", ZP
19	102381	2	NUT-NYLOCK, HEX, 3/8-16, ZP
20	101326	2	BOLT, HEX HEAD, 3/8-16X2.00, ZP
21	100062	4	WASHER-FL, 3/8", ZP
22	551892	2	BRACKET-MTG, SPRING HANGER, OUTBOARD, 401117
23	551806	2	BRACKET-MTG, SPRING HANGER, INBOARD, 401117



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MODEL NO. -401117

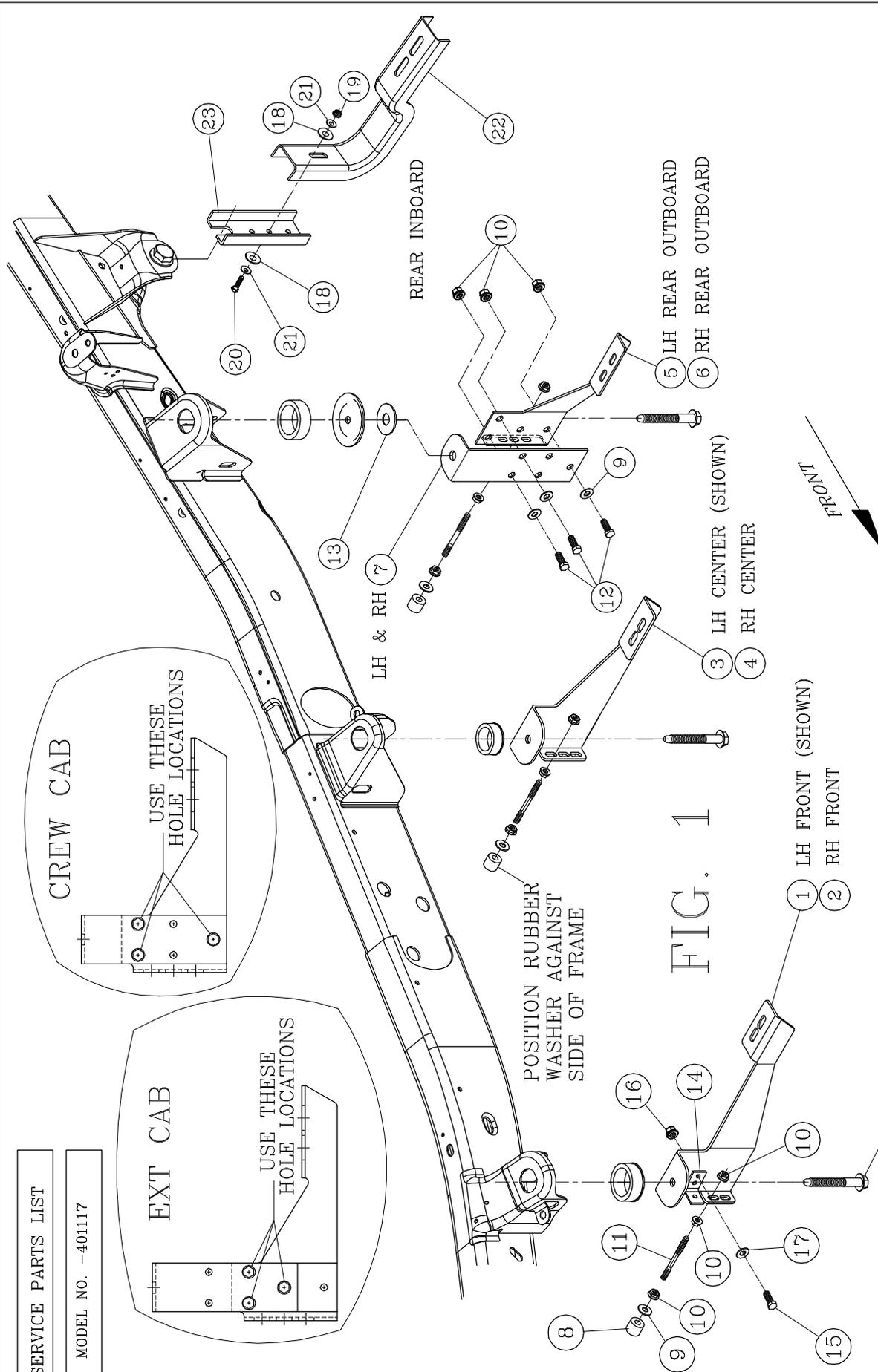


FIG. 1

#14-17 ARE USED ON 1500 MODELS ONLY

EXISTING BODY MOUNT BOLTS TORQUE PER INSTRUCTION



1200 E. 84th St. Des Moines, IA 50315

LEFT (DRIVER) SIDE SHOWN
-RIGHT (PASSENGER) SIDE OPPOSITE-

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