

## INSTALLATION INSTRUCTIONS AND PARTS LIST

MODEL 415100, 36" & 98" GRIP STEPS (BOARDS ONLY)

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 THAT YOU ARE USING TO MOUNT THE BRACKETS TO YOUR VEHICLE.
3. STEP ASSEMBLY:
  - 3.1 BEFORE ATTACHING THE GRIP STEPS TO THE BRACKETS, SLIDE THE APPROPRIATE NUMBERS OF SUPPORT BRACES (ITEM #2) INTO THE CHANNEL OF THE STEP (ITEM #1).
  - 3.2 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 BRACKETS:
  - 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.
  - 4.3 SET THE STEP PLATE IN THE CORRECT POSITION AND TIGHTEN ALL FASTENERS. TORQUE ALL 5/16" FASTENERS TO 19 LB FT.

### SERVICE PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
1	551699	1	EXTRUSION-AL,36.00, GRIP STEP,BLK,415100
1	551888	1	EXTRUSION-AL,98.00,GRIP STEP,BLK,415100
2	551296	7	SUPPORT BRACE, UPPER, GALV
3	551394	4	CAP-END,GRIP STEP, BLACK, PLASTIC
4	551298	7	SPACER PLATE, LOWER, BLACK
5	108683	14	BOLT-CRG,5/16-18 X 1.0", SST
6	101369	14	WASHER-FLAT,5/16,SST
7	102680	14	NUT-SERR FLG,HX,SST,WX,5/16-18
8	107958	8	SCR-TEK #8-18 X 1/2",SST,BLK



(A LUPERNE Company)

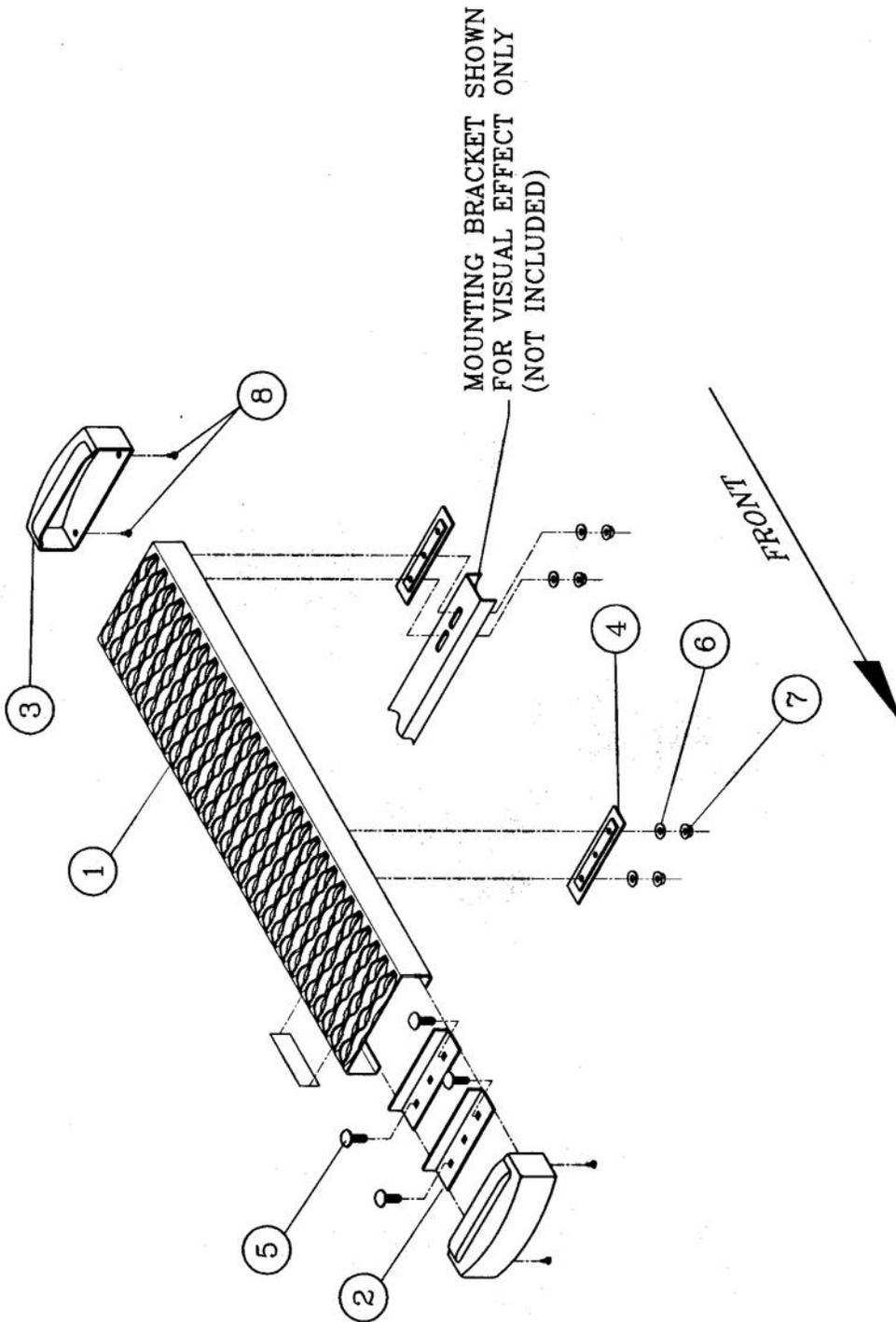
1200 E. Birch St.

Brandon, SD 57005

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SERVICE PARTS LIST

MODEL NO. - 415100

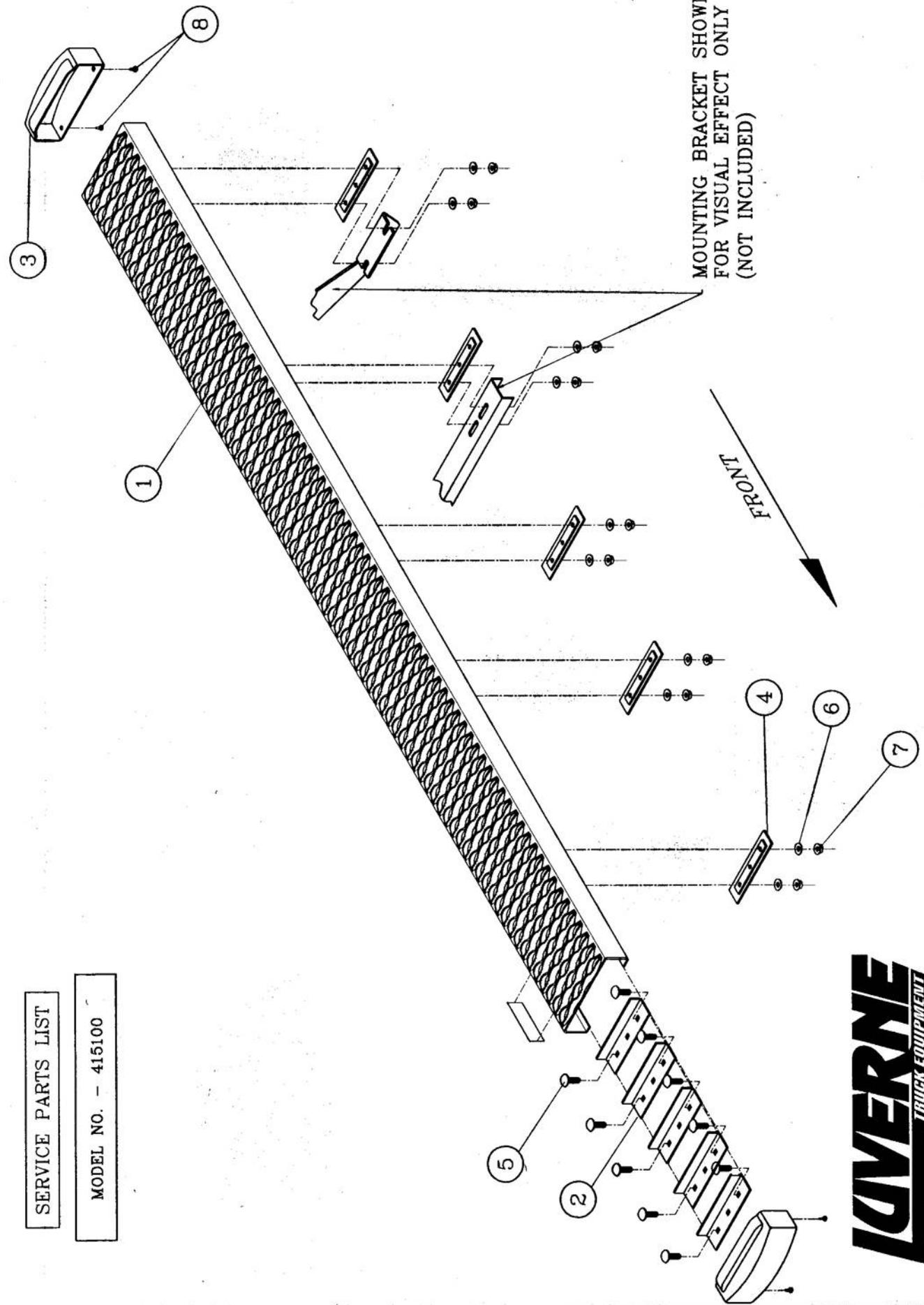


**LAVERNE**  
TRUCK EQUIPMENT  
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1200 E. Birch St.  
Brandon, SD 57005

SERVICE PARTS LIST

MODEL NO. - 415100



MOUNTING BRACKET SHOWN  
FOR VISUAL EFFECT ONLY  
(NOT INCLUDED)

FRONT

**LAVERNE**  
TRUCK EQUIPMENT

(A LAVERNE Company)

1200 E. Birch St.  
Brandon, SD 57005

## INSTALLATION INSTRUCTIONS AND PARTS LIST MODEL 400344 GRIP STEPS, SHORT/LONG

VEHICLE APPLICATION:

2003 AND NEWER 135" WB CHEVROLET EXPRESS AND GMC SAVANA VANS

**READ INSTRUCTIONS COMPLETELY AND CHECK TO MAKE SURE THAT ALL REQUIRED PARTS (LISTED ON SERVICE PARTS LIST) ARE ON HAND BEFORE STARTING THE INSTALLATION**

1. ON THE LEFT SIDE OF THE VEHICLE, REMOVE THE FRONT BODY MOUNTING BOLT. THE BOLT, STEEL WASHER AND RUBBER CUSHION WILL BE REUSED.
2. INSTALL THE MULTI-THREAD U-NUT (ITEM #11) ON THE FRONT MOUNTING BRACKET (ITEM #3). **(NOTE: INSTALL IN THE TOP HOLE FOR 1500 VANS. INSTALL IN THE BOTTOM HOLE FOR 2500 & 3500 VANS.)**
3. INSTALL THE FRONT MOUNTING BRACKET (ITEM #3) TO THE FRONT BODY MOUNT WITH THE WASHER AND THE RUBBER CUSHION BETWEEN THE MOUNTING BRACKET AND THE BODY MOUNT. THE STEP END OF THE BRACKET SHOULD BE PERPENDICULAR TO THE OUTSIDE BODY. TIGHTEN THE BOLT TO 65 LB. FT
4. INSTALL A 3/8"-16 SERRATED FLANGE NUT (ITEM #10) ON THE 3/8"-16 X 5" HEX BOLT (ITEM #8) WITH THE FLANGE FACING TOWARD THE END OF THE BOLT AND TURN ON JUST SHORT OF THE HEAD. SCREW THE BOLT INTO THE U-NUT AND WHEN IT COMES THROUGH THE OTHER SIDE START ANOTHER FLANGE NUT FACING THE SAME DIRECTION AS THE FIRST NUT. TURN THE NUT ON UNTIL THERE IS 3/4" PROTRUDING FROM THE FACE OF THE NUT, INSTALL A 3/8" FLAT WASHER (ITEM #13) AND THE .354 X 1.00 X .748 RUBBER WASHER (ITEM #15) INTO THE END OF THE BOLT. ADJUST THE LOAD REACTION BOLT ASSEMBLY SO THAT THE RUBBER CUSHION IS SNUG AGAINST THE FRAME AND TIGHTEN DOWN THE OUTSIDE FLANGE NUT. **(LOAD REACTION BOLT ASSEMBLY)** AS SHOWN IN *fig. 1*.
5. REMOVE THE SECOND BODY MOUNTING BOLT. THE BOLT, STEEL WASHER AND RUBBER CUSHION WILL BE REUSED.
6. INSTALL THE MULTI-THREAD U-NUT (ITEM #11) ON THE SECOND MOUNTING BRACKET (ITEM #6). INSTALL A .364 X .625 CAP PLUG (ITEM #14) ONTO THE END OF THE "U" NUT. **(NOTE: INSTALL IN THE TOP HOLE FOR 1500 VANS. INSTALL IN THE BOTTOM HOLE FOR 2500 & 3500 VANS.)**
7. INSTALL THE SECOND MOUNTING BRACKET (ITEM #6) AND THE SUPPORT BRACE (ITEM #17) TO THE SECOND BODY MOUNT WITH THE WASHER AND THE RUBBER CUSHION BETWEEN THE MOUNTING BRACKET AND THE BODY MOUNT. THE STEP END OF THE BRACKET SHOULD BE PERPENDICULAR TO THE OUTSIDE BODY. SNUG THE BODY MOUNTING BOLT UP, BUT DO NOT TIGHTEN.
8. INSTALL A 3/8"-16 SERRATED FLANGE NUT (ITEM #10) ON THE 3/8"-16 X 1-3/4" HEX BOLT (ITEM #9) WITH THE FLANGE FACING TOWARD THE END OF THE BOLT AND TURN ON JUST SHORT OF THE HEAD. SCREW THE BOLT INTO THE U-NUT AND WHEN IT COMES THROUGH THE OTHER SIDE ADJUST THE LOAD REACTION BOLT ASSEMBLY SO THAT THE RUBBER PLUG IS SNUG AGAINST THE FRAME AND TIGHTEN DOWN THE OUTSIDE FLANGE NUT. **(LOAD REACTION BOLT ASSEMBLY)** AS SHOWN IN *fig. 1*.



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9. AFTER ATTACHING THE BOARDS TO THE BRACKETS, HOLD THE SUPPORT BRACE UP TO THE BOARD. USING A 3/8" DRILL BIT, DRILL A HOLE IN THE BOARD WHERE THE SUPPORT BRACE MEETS THE BOARD.
10. INSTALL A 5/16"-18 X .875" BOLT (ITEM #18), 5/16" FLAT WASHER (ITEM #19) AND A 5/16"-18 NUT (ITEM #20) TO SECURE THE SUPPORT BRACE TO THE BOARD.
11. TIGHTEN THE REAR BODY MOUNTING BOLT TO 65 LB. FT.
12. ON THE RIGHT SIDE OF THE VEHICLE, REMOVE THE FRONT BODY MOUNTING BOLT. THE BOLT, STEEL WASHER AND RUBBER CUSHION WILL BE REUSED.
13. INSTALL THE MULTI-THREAD U-NUT (ITEM #11) ON THE FRONT MOUNTING BRACKET (ITEM #4). **(NOTE: INSTALL IN THE TOP HOLE FOR 1500 VANS. INSTALL IN THE BOTTOM HOLE FOR 2500 & 3500 VANS.)**
14. INSTALL THE FRONT MOUNTING BRACKET (ITEM #4) TO THE FRONT BODY MOUNT WITH THE WASHER AND THE RUBBER CUSHION BETWEEN THE MOUNTING BRACKET AND THE BODY MOUNT. THE STEP END OF THE BRACKET SHOULD BE PERPENDICULAR TO THE OUTSIDE BODY. TIGHTEN THE BOLT TO 65 LB. FT
15. INSTALL A 3/8"-16 SERRATED FLANGE NUT (ITEM #10) ON THE 3/8"-16 X 5" HEX BOLT (ITEM #8) WITH THE FLANGE FACING TOWARD THE END OF THE BOLT AND TURN ON JUST SHORT OF THE HEAD. SCREW THE BOLT INTO THE U-NUT AND WHEN IT COMES THROUGH THE OTHER SIDE START ANOTHER FLANGE NUT FACING THE SAME DIRECTION AS THE FIRST NUT. TURN THE NUT ON UNTIL THERE IS 3/4" PROTRUDING FROM THE FACE OF THE NUT, INSTALL A 3/8" FLAT WASHER (ITEM #13) AND THE .354 X 1.00 X .748 RUBBER WASHER (ITEM #15) INTO THE END OF THE BOLT. ADJUST THE LOAD REACTION BOLT ASSEMBLY SO THAT THE RUBBER CUSHION IS SNUG AGAINST THE FRAME AND TIGHTEN DOWN THE OUTSIDE FLANGE NUT. **(LOAD REACTION BOLT ASSEMBLY)** AS SHOWN IN *fig. 1*.
16. REMOVE THE SECOND BODY MOUNTING BOLT. THE BOLT, STEEL WASHER AND RUBBER CUSHION WILL BE REUSED.
17. INSTALL THE MULTI-THREAD U-NUT (ITEM #11) ON THE SECOND MOUNTING BRACKET (ITEM #5). INSTALL A .364 X .625 CAP PLUG (ITEM #14) ONTO THE END OF THE "U" NUT. **(NOTE: INSTALL IN THE TOP HOLE FOR 1500 VANS. INSTALL IN THE BOTTOM HOLE FOR 2500 & 3500 VANS.)**
18. INSTALL THE SECOND MOUNTING BRACKET (ITEM #5) TO THE SECOND BODY MOUNT WITH THE WASHER AND THE RUBBER CUSHION BETWEEN THE MOUNTING BRACKET AND THE BODY MOUNT. THE STEP END OF THE BRACKET SHOULD BE PERPENDICULAR TO THE OUTSIDE BODY. TIGHTEN THE BOLT TO 65 LB. FT.
19. INSTALL A 3/8"-16 SERRATED FLANGE NUT (ITEM #10) ON THE 3/8"-16 X 1-3/4" HEX BOLT (ITEM #9) WITH THE FLANGE FACING TOWARD THE END OF THE BOLT AND TURN ON JUST SHORT OF THE HEAD. SCREW THE BOLT INTO THE U-NUT AND WHEN IT COMES THROUGH THE OTHER SIDE ADJUST THE LOAD REACTION BOLT ASSEMBLY SO THAT THE RUBBER PLUG IS SNUG AGAINST THE FRAME AND TIGHTEN DOWN THE OUTSIDE FLANGE NUT. **(LOAD REACTION BOLT ASSEMBLY)** AS SHOWN IN *fig. 1*.



20. AFTER MOUNTING THE 1<sup>ST</sup> AND 2<sup>ND</sup> BRACKET, MEASURE FROM THE BOTTOM OF THE BODY FLANGE DOWN TO THE BOTTOM OF THE MOUNTING BRACKETS TO MAKE SURE THEY ARE THE SAME, AND WHEN INSTALLING THE 3<sup>RD</sup> BRACKET ADJUST IT TO THIS DIMENSION BEFORE TIGHTENING THE BOLTS.
21. REMOVE THE NUT AND WASHER FROM THE FRONT SPRING SHACKLE BOLT. SAVE THE NUT TO BE REUSED. INSTALL THE BLACK SPACER WASHER (ITEM #16), MOUNTING BRACKET (ITEM #7), 5/8" FLAT WASHER (ITEM #12) AND THE FACTORY NUT ONTO THE SPRING SHACKLE BOLT. ADJUST THE HEIGHT AND TIGHTEN TO 65 LB. FT.

**ATTACHING THE STEP TO THE MOUNTING BRACKETS**

PLEASE REFER TO THE INSTRUCTION SHEET INCLUDED WITH YOUR GRIP STEP BOARDS TO MOUNT THE STEPS TO THE MOUNTING BRACKETS.

**SERVICE PARTS LIST**

ITEM	PART NO.	QTY	DESCRIPTION
1	415100-36	1	GRIP STEP BOARD - 36.00" (MOD. 415100)
2	415100-98	1	GRIP STEP BOARD - 98.00" (MOD. 415100)
3	552522	1	MOUNTING BRACKET – LH, FRONT
4	552523	1	MOUNTING BRACKET – RH, FRONT
5	552521	1	MOUNTING BRACKET – CENTER, RH
6	552531	1	MOUNTING BRACKER – CENTER, LH
7	552528	1	MOUNTING BRACKET – REAR, RH
8	104673	2	SCREW – HEX HEAD CAP, 3/8"-16 X 5", FULL THREAD, ZP
9	107211	2	SCREW – HEX WASHER HEAD, 3/8"-16 X 1-3/4", ZP
10	100181	6	NUT – SERRATED FLANGE, 3/8"-16, ZP
11	109258	4	U-NUT – MULTI THREAD, 3/8"-16 X 1.09"
12	100147	1	FLAT WASHER - 5/8", ZP
13	106962	2	FLAT WASHER – 3/8", SST, BZP
14	103325	2	CAP PLUG - .364 X .625, VINYL, BLACK
15	102592	2	RUBBER WASHER - .354 X 1.00 X .748
16	552109	1	SPACER WASHER – 1/8" x 1-3/4"
17	552549	1	BRACE-SUPPORT, LH, 400344
18	104281	2	SCR-CAP, HEX, 5/16" – 18 X .875"
19	100034	2	WASHER – FLAT, 5/16", ZP
20	100178	2	NUT, SERRATED-FLANGE, 5/16" – 18



SERVICE PARTS LIST  
 MODEL NO. - 400344

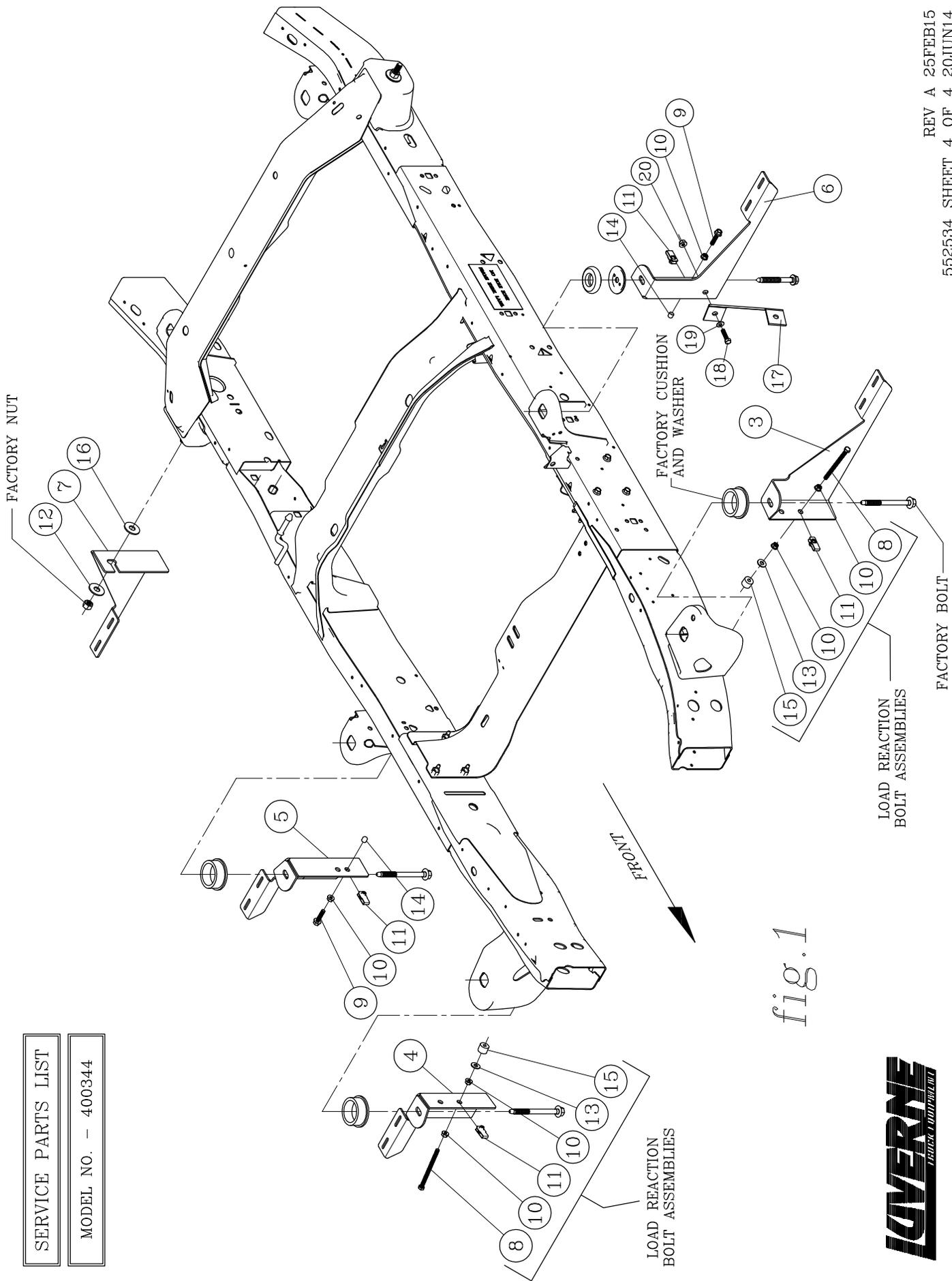


fig.1

