



CHRYSLER / DODGE MINIVAN

SERVICE MANUAL



2011-2016 MODEL YEAR

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Your Life. Your Ride.™
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#13315-006
October 2015



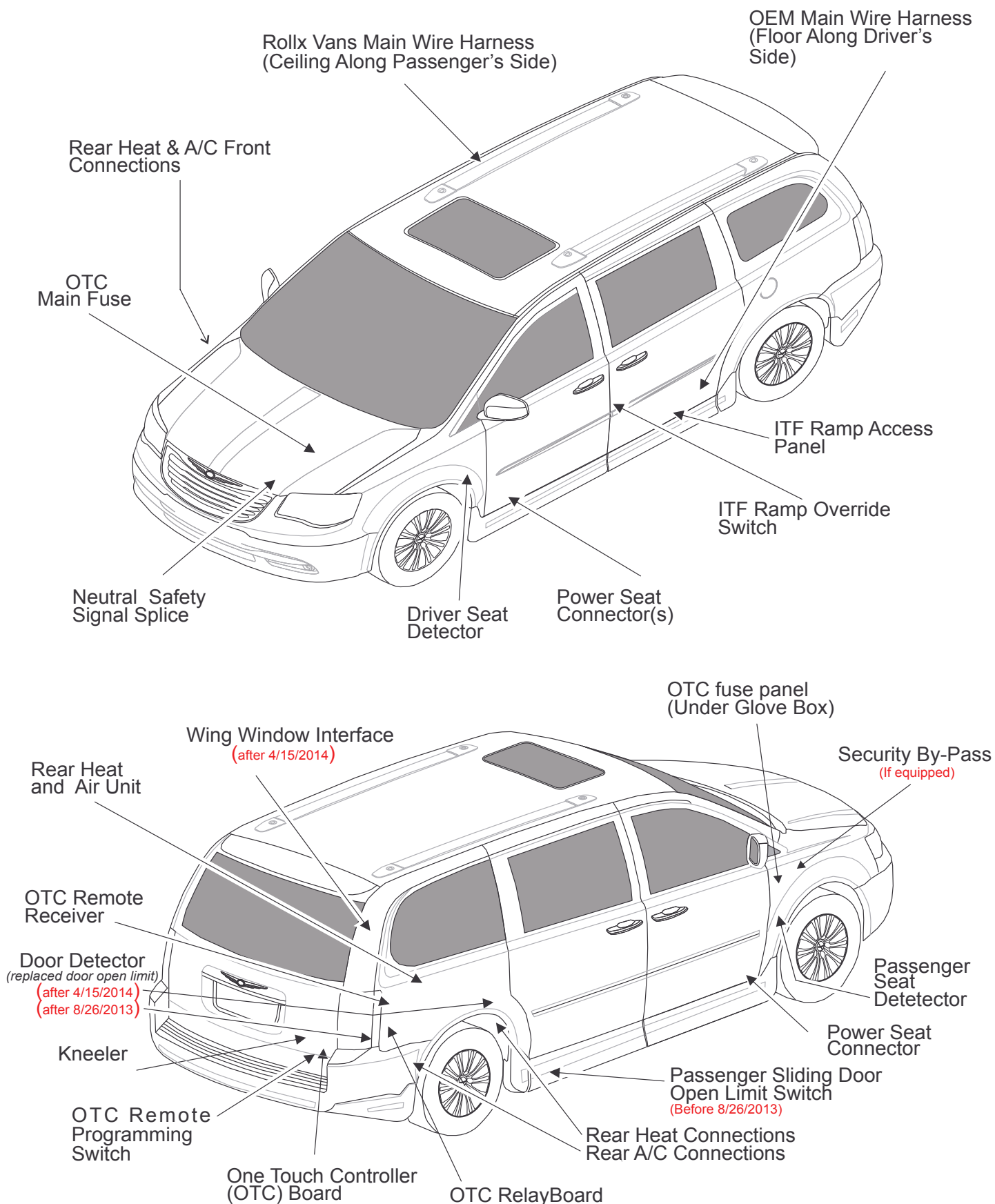
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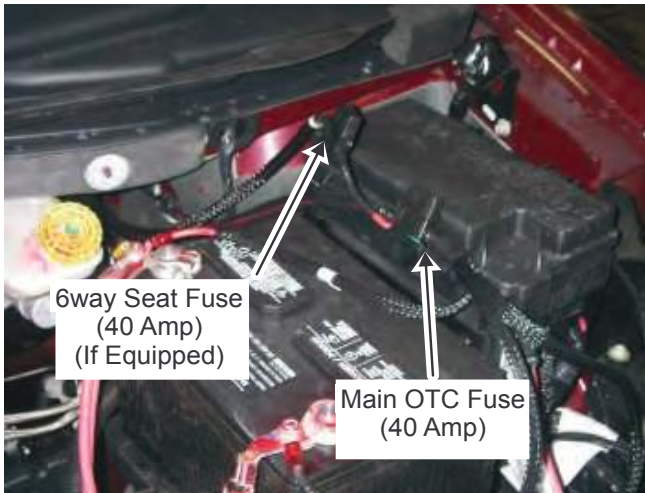


IMPORTANT ITEM LOCATIONS

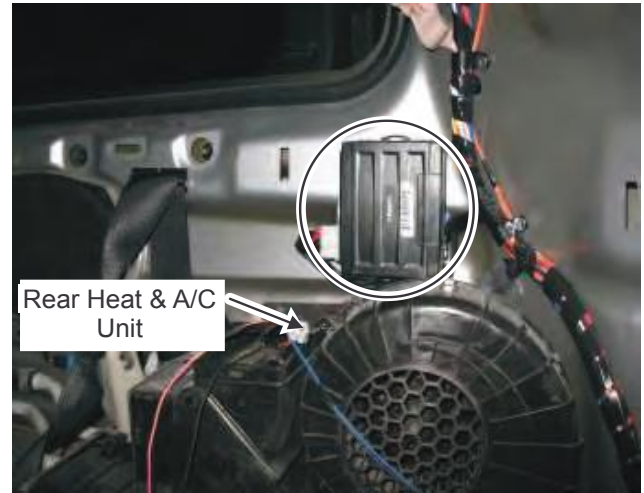




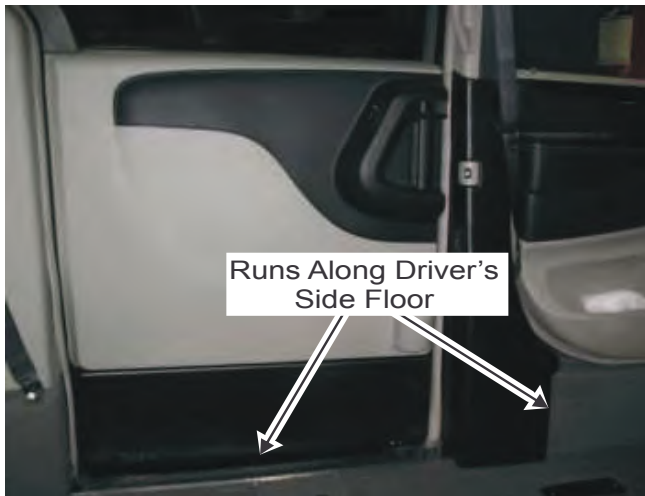
Main Fuse
(Engine Compartment)



OTC Remote Receiver
(Passenger's Side D-Pillar)



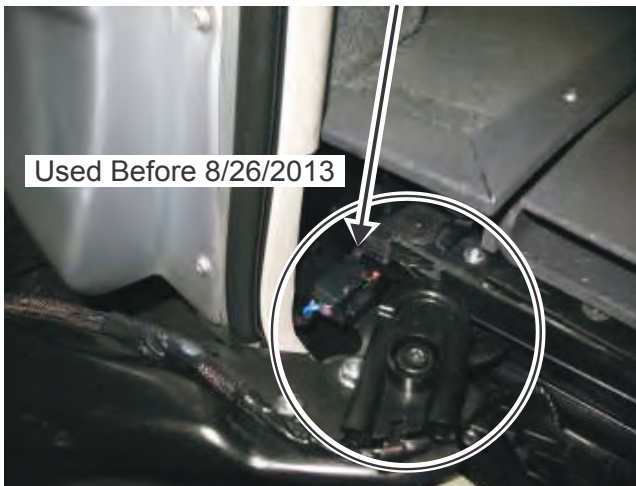
OEM Wire Harness



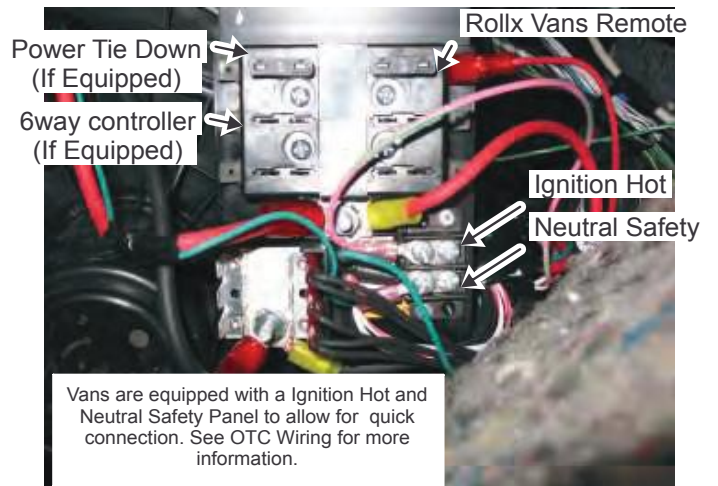
Rollx Vans Main Wire Harness



Passenger Sliding Door Open Limit Switch
(Passenger's Lower Slider Door Track)

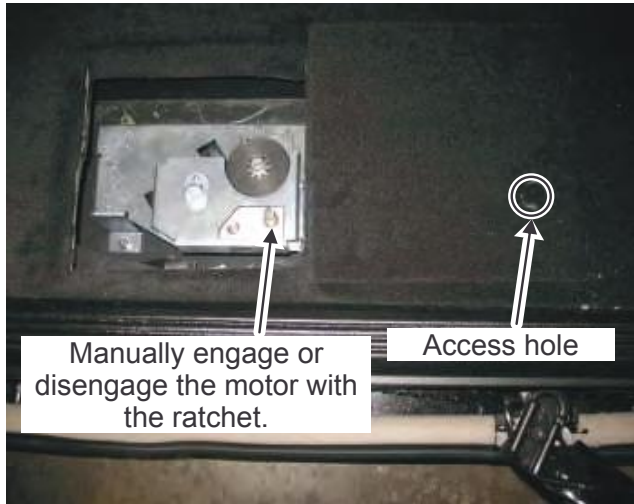


OTC Fuse Panel
(Under Glove Box - Must Pull Back Fabric)





ITF Ramp Motor Access Plate
(Located On The Floor Of The Driver's Slider Door Area)



OTC Relay Board
(Behind Rear Passenger Quarter Panel)



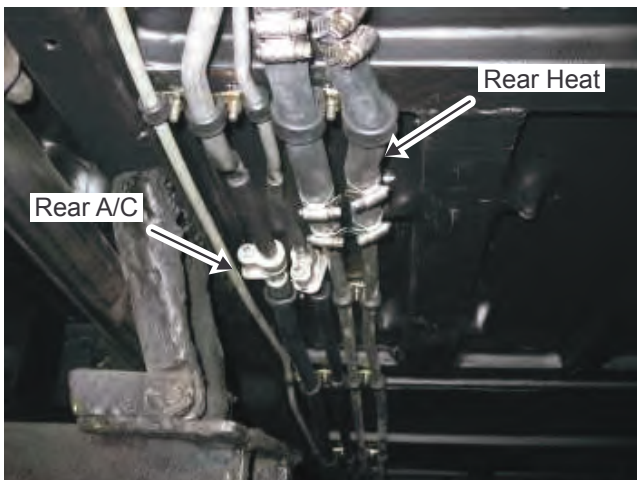
Rear AC (Rear Connections)
(Behind Rear Right Tire)



Rear Heat (Rear Connections)
(Right Rear Tire)



Rear Heat & A/C (Front Connections)
(Under Passenger's Side Front Seat Area)

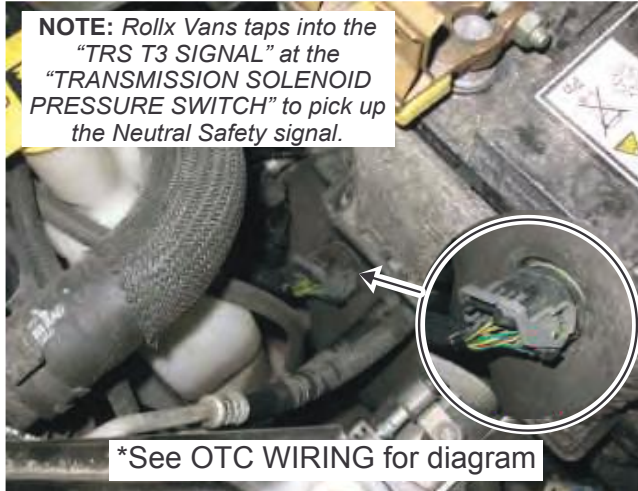


Kneeler and One Touch Controller
(Passenger's Side Rear Storage Area)





Neutral Safety Signal
(Engine Compartment)



ITF Ramp Override Switch
(Driver's Side B-Pillar)



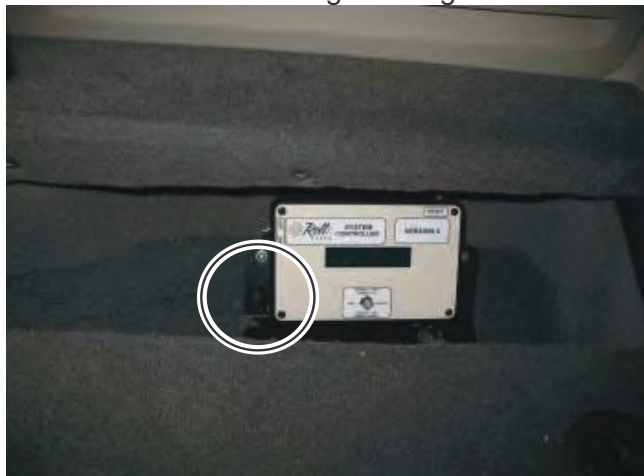
Passenger's Door Detector
(Replaced The Door Open Limit Switch after 8/26/2013)



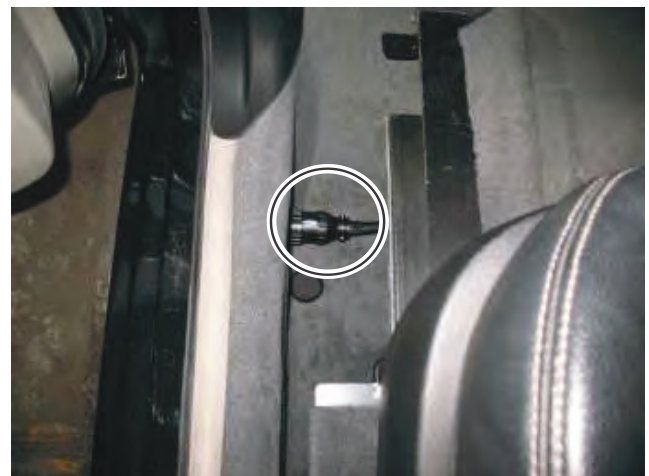
Wing Window Interface (**Built After 4/14/2014**)
(Passenger's Side D-Pillar)



OTC Remote Programming Switch

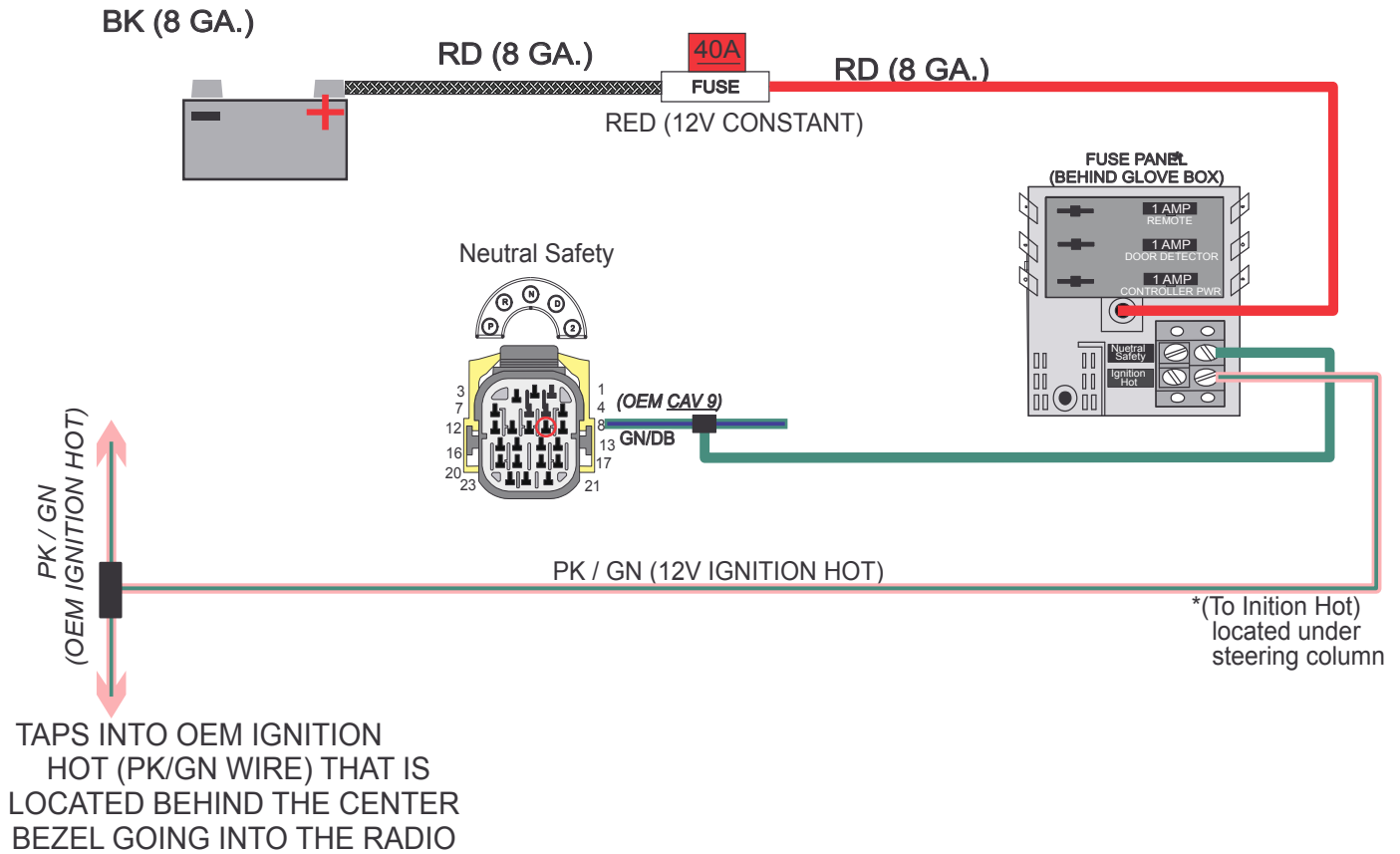


Driver's Power Seat Connector
(Passenger's Same)



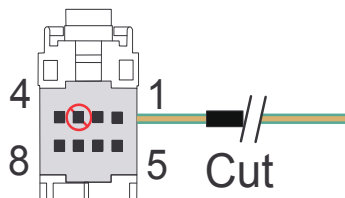


Rollx Vans Ignition Hot & Neutral Safety Board Wiring 2008-2016 Chrysler Minivans (built after 5/28/2009)



Power Folding Rear Sofa

If the van is equipped with a Power Folding Rear Sofa, Rollx Vans disables the FOLD/TAILGATE SWITCH MUX which would allow the seat to be stowed into the floor. Rollx Vans cuts the LG/TN wire at the switch.



Pin	Wire Color	Gauge	Function
1			NO CONNECTION
2	LG/YL	22	SEAT SWITCH SELECTOR SIGNAL
3	LG/TN	22	SEAT FOLD SIGNAL
4	LG/DB	22	SEAT STOW SWITCH SIGNAL
5	LG/VT	22	FOLDING SEAT SWITCH RETURN
6			NO CONNECTION
7			NO CONNECTION
8			NO CONNECTION



The following procedure should be used to test the current draw from any battery used in our vans.

- 1) Insure the battery is fully charged.**
- 2) Remove the key from the ignition switch.**
- 3) Close all the doors including the sliding doors and the rear tailgate.**
- 4) Close all the windows including the rear vent windows.**
- 5) Remove the negative (Black) cable from the battery and move it to a safe location away from both the positive (Red) and negative terminals of the battery.**
- 6) Acquire a Digital Multimeter with a 20 Amp current range function. NOTE: A standard van can draw between 15 and 17 amps of current when it is first powered up (When the battery is reconnected). You must use a multimeter with a 20 Amp range. Using a Multimeter with a lower current range function will damage the meter if it does not have an internal fuse. If it has an internal fuse, it will be blown.**

NOTE: DO NOT RUN THE ROLLX VANS OTC OR TRY TO START THE VAN WHEN YOU HAVE THE METER CONNECTED! YOU WILL DAMAGE THE METER!

- 7) Place the function switch of the Multimeter in the 20 Amp Current Measurement position.**
- 8) Connect the negative (black) probe (wire lead) to the black jack on the multimeter.**
- 9) Most multimeters have more than one red jack for the positive (red) probe. They usually have one jack for measuring AC & DC voltage and resistance, along with a second Jack for measuring AC & DC Current. Some multimeters have more than one red jack for measuring current (three red jacks total). As an example a meter might have two red jacks, one rated for 200 Milliamps and a second for 20 Amps. You should use the 20 Amp plug (or the one with the largest rating).**
- 10) Acquire two test jumpers with alligator clips (Radio Shack # 278-002). Attach one jumper to the positive (Red) probe and the other to the negative(Black) probe.**
- 11) Turn the multimeter on.**
- 12) Attach the other end of the jumper clipped on the positive (red) meter probe to the disconnected battery cable.**

NOTE: Polarity does not matter much when measuring current. A positive current is the same as negative current. Disregard the polarity indicator on the multimeter during these tests.

- 13) Attach the jumper on the negative (black) meter probe to the negative terminal of the battery.**

NOTE: YOU MAY GET A SPARK WHEN YOU ATTACH THE JUMPER. THIS IS NORMAL. ALL THE CURRENT BEING USED BY THE VAN IS NOW RUNNING THROUGH THE METER. AS MUCH AS 15-17 AMPS).



- 14) The Multimeter should now show a reading. Keep your eye on the meter and watch the draw. A typical van can have from 18 to 28 computer modules in it. They are all woke up when power was applied to the van by attaching your meter probes. As you watch the current reading you will note that it will start to fall. This happens as the computers in the van decide they are not needed and put themselves to sleep. Chrysler says it can take up to thirty minutes for everything to go into sleep mode.

The current should drop in stages similar to the sequence below:

- a. The reading will start as high as 15-17 amps for a short period of time.
 - b. It then fall to 6-8 amps for a short time.
 - c. Then 1 to 1.5 amps for a period of time.
 - d. It will then settle on around .800 amps (800 Milliamps) for a while.
 - e. Then it may drop to .100 to .200 amps (100 to 200 Milliamps) for period of time.
 - f. Finally it will drop all the way into sleep mode, .040 to .100 amps (40 to 100 Milliamps) and will stay there until the van is woke up.
 - g. Note: The values you will see will vary from van to van, from van type to type and by the number and type of accessories installed on the van. The important thing is that it drops to a value less the 100 Milliamps (.100 Amps) for a standard van when it goes into sleep mode.
- 15) You can wake the van simply by opening the driver's side door for a few seconds, then closing it.
- 16) Watch the meter again to see the van go into sleep mode again. You should repeat this test until you are satisfied the van's "Sleep Mode" is functioning correctly.



This picture shows a complete setup for a Draw Test:



Note the black probe attached to the negative terminal and the red probe attached to the negative battery cable.



This picture shows a typical multimeter. Note the current range switch settings and current probe jack markings are all in yellow for μA (Microamps), mA (Milliamps and A (Amps).

Also note that the meter has two Jacks for current measurement, “20A” and “ $\mu\text{A}/\text{mA}$ ”. On this meter, for our Draw Test, we would place the Function Switch in the “A” (for Amps) position and plug the Red Probe into the “20A” Jack. The Black Probe always goes in the Black Jack.

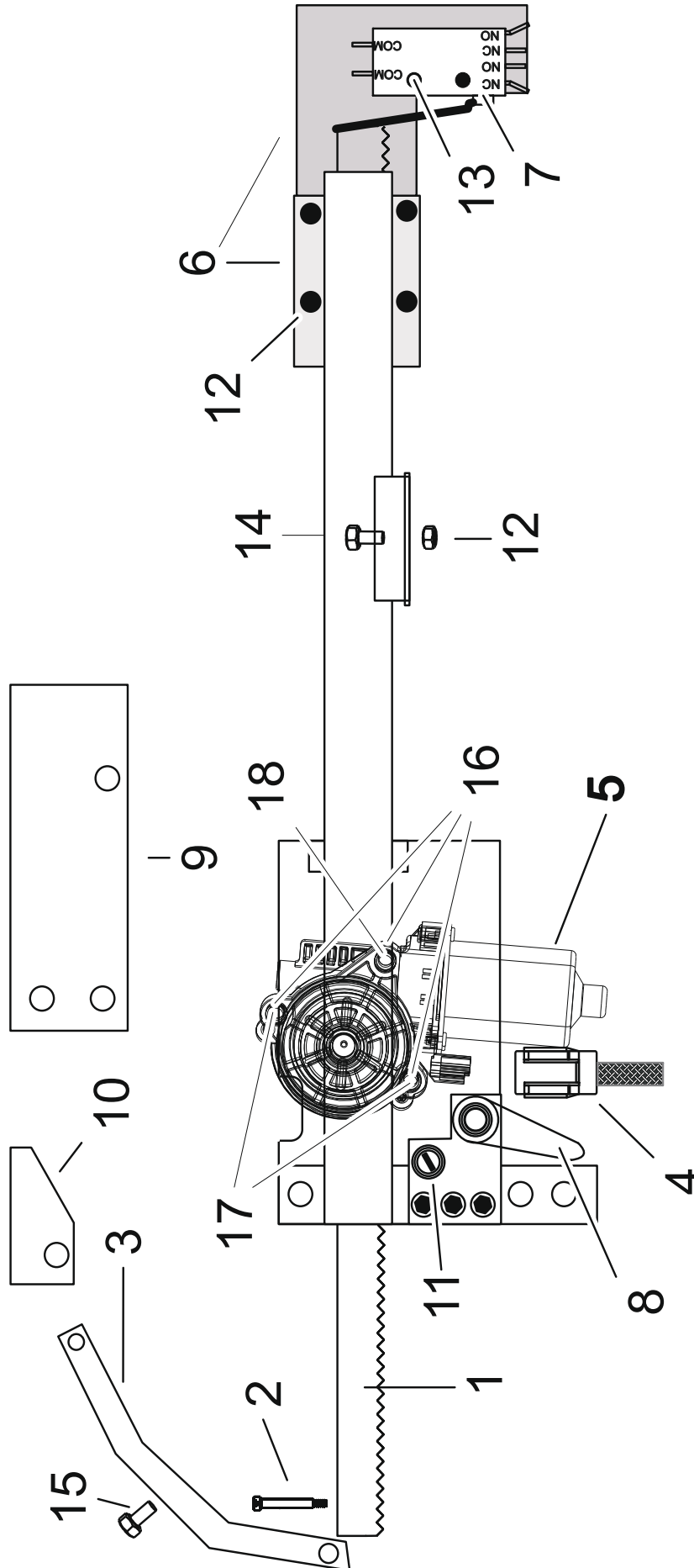


ROLLX VANS DOOR (MOTOR BAR) TROUBLE SHOOTING

Symptom	Possible Cause	Remedy
Door does not operate.	Front passenger door is locked.	Unlock front passenger door.
	Switch is stuck.	Make sure all user switches are not stuck.
	Blown fuse.	Replace 30 or 15 amp blade fuse located underneath hood near battery.
	Manual release handle is not engaged.	Turn handle all the way counter-clockwise.
Door will open, but ramp will not deploy.	Door open limit switch needs adjustment.	Adjust the door open limit switch (#7 on next page). The switch can be accessed by the passenger side rear speaker area (remove the speaker first).
Door will open, but not close or door will "jump" closed.	Ramp up limit switch is not engaged.	Adjust the cam for up limit.
Door "ratchets" when operating (make sure kneeler is off).	Gear on motor is stripped.	Replace motor.
	Gear on bar is stripped.	Replace gear rack (bar).



Rollx Vans Power Door Exploded View



Item	Qty.	Description	Part #
1	1	DOOR BAR ASM (INCLUDES THE 3 FOLLOWING)	10026ASM
2	1	MTR BAR DOOR OPENER (RACK AND ASSEMBLY)	10026
3	1	WIRE HARNESS 5.5" FOR	310-1059
4	1	MTR 12V 10MM 10MM DOUBLE	210-1011
5	1	GEAR RACK (SPECIFY LONG OR SHORT)*	10026-4
6	1	LONG BAR	
7	1	3/8 X 1 STRIP	1126318
8	1	ARM BAR (FOR MOTOR BAR)	10026-22
9	1	WIRE HARNESS 5.5" FOR	310-1059
10	1	MOTOR ONLY W/GEAR ASM (INCLUDES WIRE HARNESS AND SHIMS**)	10026-15ASM
* LONG USED BEFORE ~2001 IF NO REAR HEAT & AIR			
** SHIMS ONLY NEEDED IF BEFORE ~2003 BUT ALWAYS SENT WITH MOTOR			
11	1	BRKT MTR BAR LIMIT SWITCH	MB1006
12	1	SWITCH DPDT (CHERRY)	E19-50H
13	1	HANDLE CHROME INSIDE	6022
14	1	DOOR BRACKET A (DOOR BRACKET B -)	MB1001 (MB1002)
15	2	DOOR ARM PLATE	MB1005
16	N/A	MANUAL RELEASE TENSION ADJUSTMENT	NA
17	2	1/4-20 NYLOCK NUT	SHOP SUPPLY
18	2	#6 NYLOCK NUT	SHOP SUPPLY
19	1	1/4-20X3/4 HEX HEAD SCREW	SHOP SUPPLY
20	1	5/8-20X1 HEX HEAD SCREW (ADJUSTMENT)	SHOP SUPPLY
21	1	SHIM KIT FOR DOOR OPENERS (INCLUDES ALL 3 - VARYING SIZES)	10026-12
22	2	#10-32X2 HEX HEAD (5/32) PARTIALLY THREADED SCREW	SHOP SUPPLY
23	1	#10-32X2-1/2 HEX HEAD (5/32) PARTIALLY THREADED SCREW (NUT ON BACK)	SHOP SUPPLY



PASSENGER SLIDING DOOR TROUBLESHOOTING

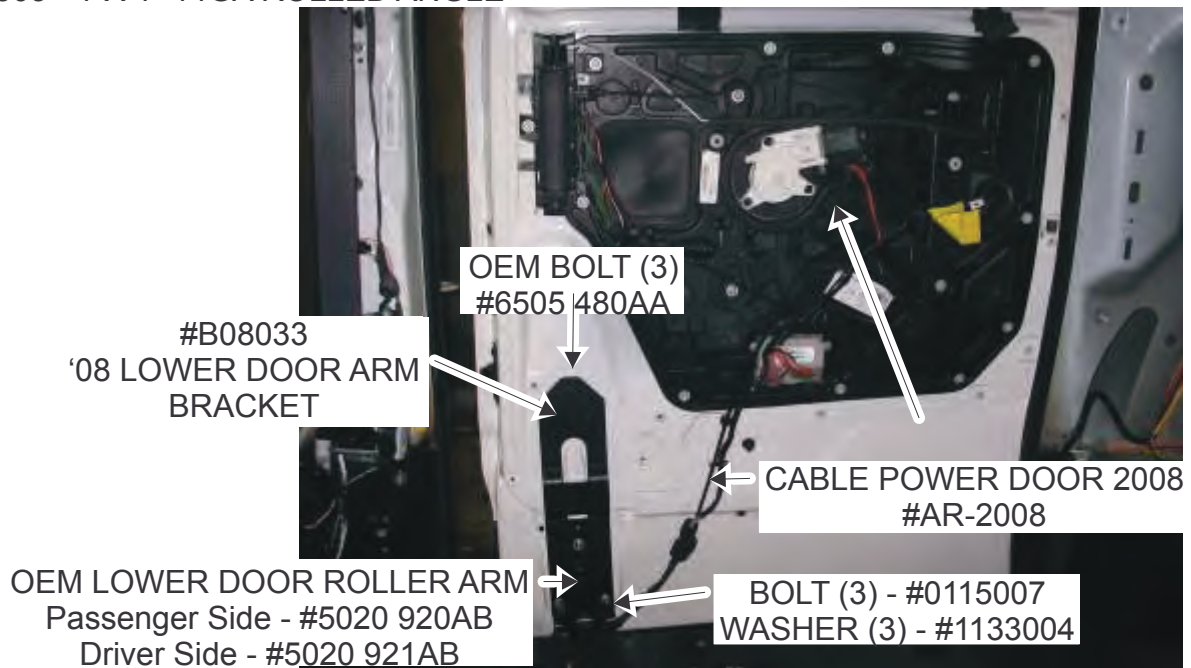
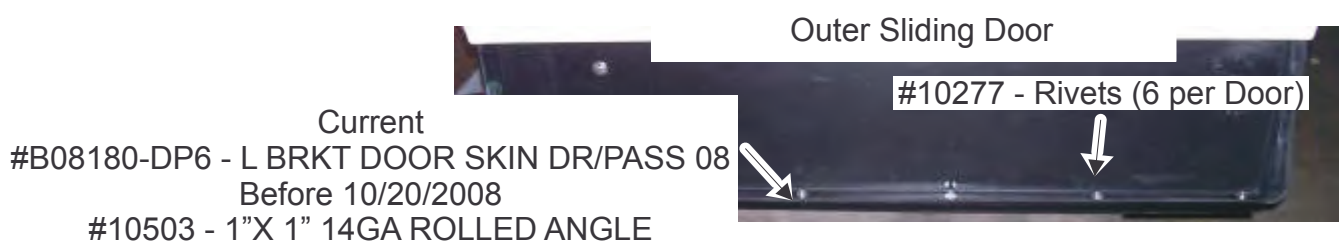
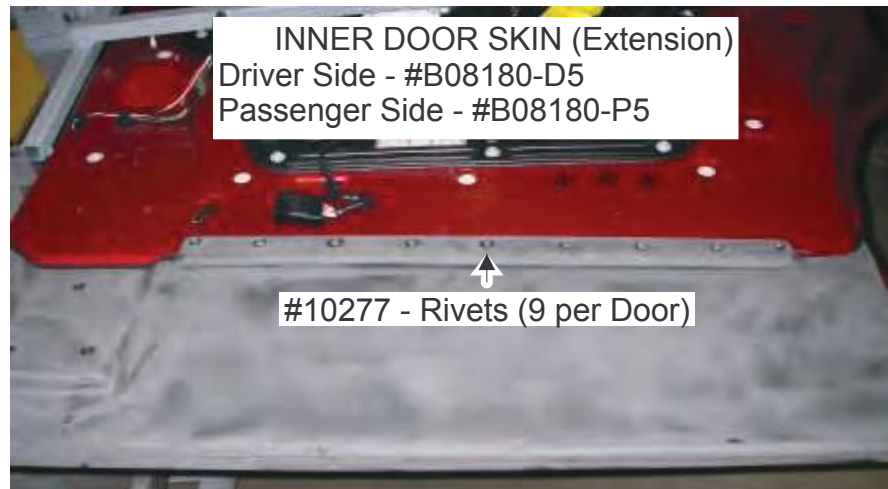
Note: Using the “Debug Mode” on the OTC board is a good resource to assist you in trouble shooting. Refer to the “One Touch System Interface Debugger” section and verify all the Inputs (limit switches) are functioning normally.

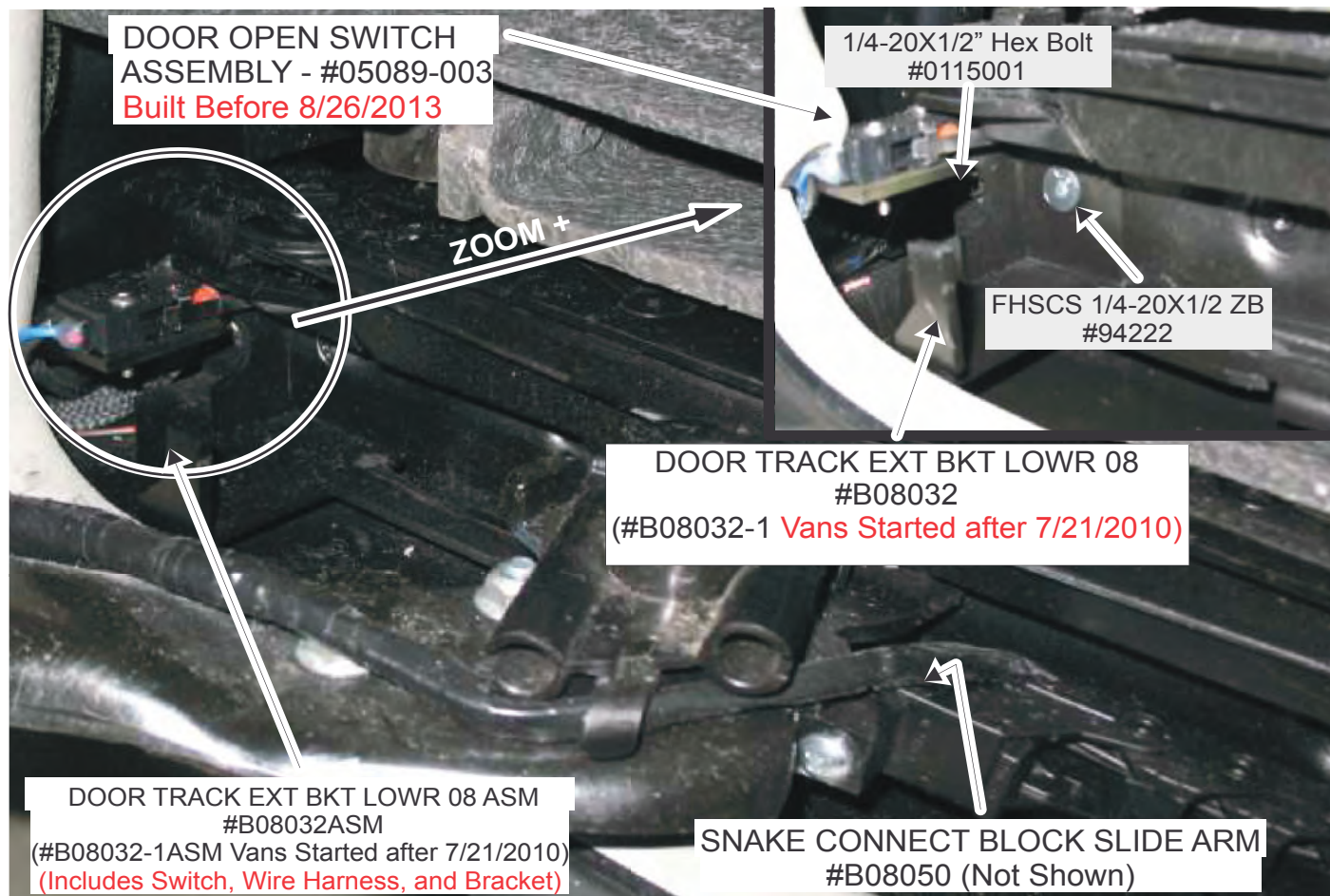
Symptom	Possible Cause	Remedy
Ramp sliding door does NOT OPEN with interior Rollx Vans user switch / Rollx Vans remote.	Van is NOT in park.	Place van into park..
	Overhead on/off switch is turned to the OFF position.	Turn switch to ON position.
	OTC program failure.	Press OTC reset button.
	OEM B-Pillar Switch Failure (switch needs to be functioning for our sytem to work).	Replace OEM B-Pillar switch.
	Defective Rollx Vans Remote.	See Remote Troubleshooting section.
	Broken wire in the door harness.	Test & repair open circuit or Replace harness.
	Door lock actuator failure.	Replace door lock actuator.
	Bad user switch.	Try another user switch/ replace defective switch.
	Low voltage.	Check or replace the van's battery.
	Bad OTC board.	Replace OTC board.
	Main OTC fuse (40 amp) is blown.	Replace fuse under hood by battery.
Ramp sliding door does NOT OPEN with interior OEM push buttons after pressing OTC reset button.	OEM overhead ON / OFF switch is OFF.	Turn switch to ON position.
	Defective OEM door track assembly.	Replace door track assembly and contact customer service.
Ramp sliding door does NOT attempt to CLOSE after ramp stows.	Defective door detector.	Replace the door detector
	Ramp up limit switch is not being activated.	Adjust or Replace the ramp up limit.
Ramp sliding door attempts to close (door motor runs) after ramp stows, but door does not move.	Defective door open bracket.	Adjust or replace the bracket.
	Defective OEM door track assembly.	Press OTC reset button, press interior OEM push button to see if door will close automatically. If door still does not respond, review OTC board display.
Ramp sliding door kicks back when opening.	Obstruction.	Check door track for any debris and remove.
	Door not latching in full open position.	Adjust or replace the door open bracket, latch or cable.
Ramp sliding door kicks back when closing.	Door out of adjustment.	Adjust door and strikers.
	Ramp needs adjustment (Foldout only).	Adjust folding ramp to stow more.
	OEM door module needs software update.	Update software from Chrysler or Rollx Vans.
	Excessive cabin pressure.	Shut off AC/Heater fan, and open a window.
Ramp sliding door opens and van kneels, but when door is all the way open, van unkneels and cycle ends.	OEM Door Ajar Pin Switch (Rollx Vans Door Close signal) is never deactivated when door begins to open.	If the OTC thinks the door is open and closed it will end the cycle. Examine switch / wiring.
Ramp sliding door does not seal when almost closed.	Ramp needs adjustment (Foldout only).	Adjust folding ramp to stow more.
	Defective OEM cinch motor.	Replace cinch motor.
Ramp sliding door does NOT OPEN manually.	Door is locked.	Unlock door.
	Child safety lock is activated.	See OEM owner manual to deactivate child safety lock.
	Defective interior handle cable.	Adjust or replace cable.
Ramp sliding door closes half way and then moves back and forth.	Stuck door open limit switch.	Adjust switch located in rear of lower door track.
Ramp sliding door will NOT CLOSE manually.	Door handle is not releasing.	Pull handle to disengage latch and slide to close.
	Obstruction.	Check door track for any debris and remove.
	Door track assembly is seized.	Replace modified power sliding door track.



Door extension kits
part numbers and
descriptions

-B08180-D5-KIT-ITF
DOOR SKIN SVC KIT, ITF,DR
-B08180-D5-KIT-FO
DOOR SKIN SVC KIT,FO,DR
-B08180-P5-KIT-ITF
DOOR SKIN SVC KIT,ITF,PS
-B08180-P5-KIT-FO
DOOR SKIN SVC KIT,FO,PS





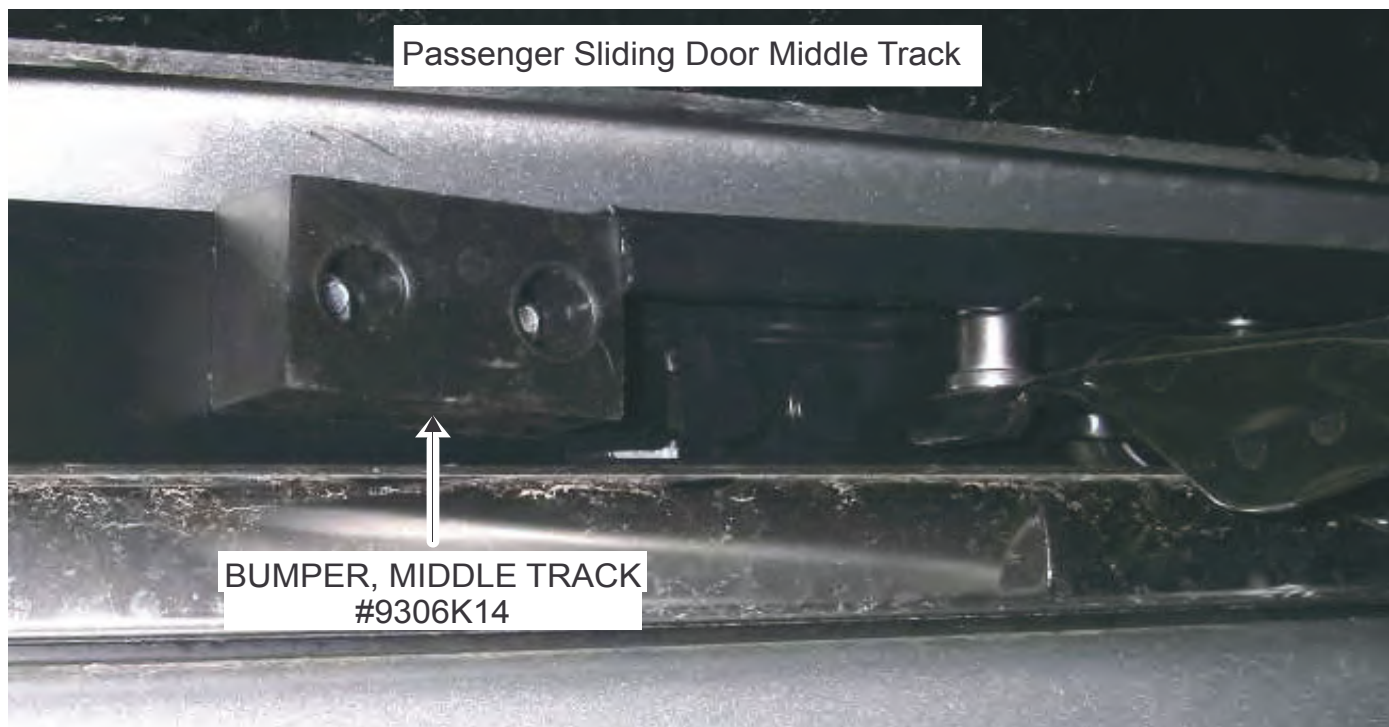
Door track kits and descriptions include OEM track and door open switch bracket

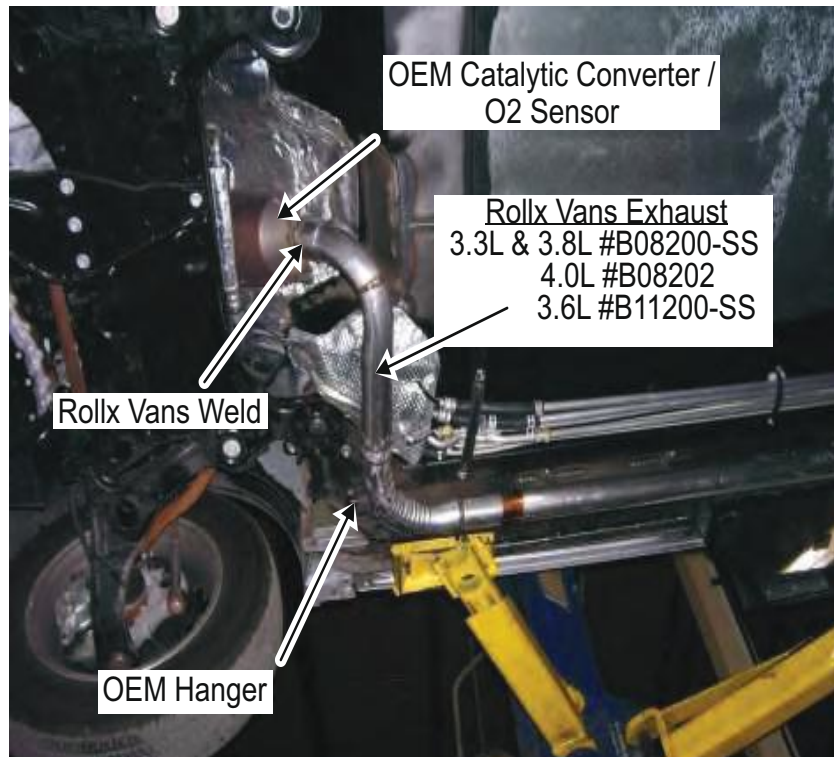
B08059ASM-DR -TRACK, DOOR ASM 2008-2009, DR

68067847AA -TRACK DOOR DR OEM 10-16

B08059ASM-PS -TRACK, DOOR ASM 2008-2009,PS

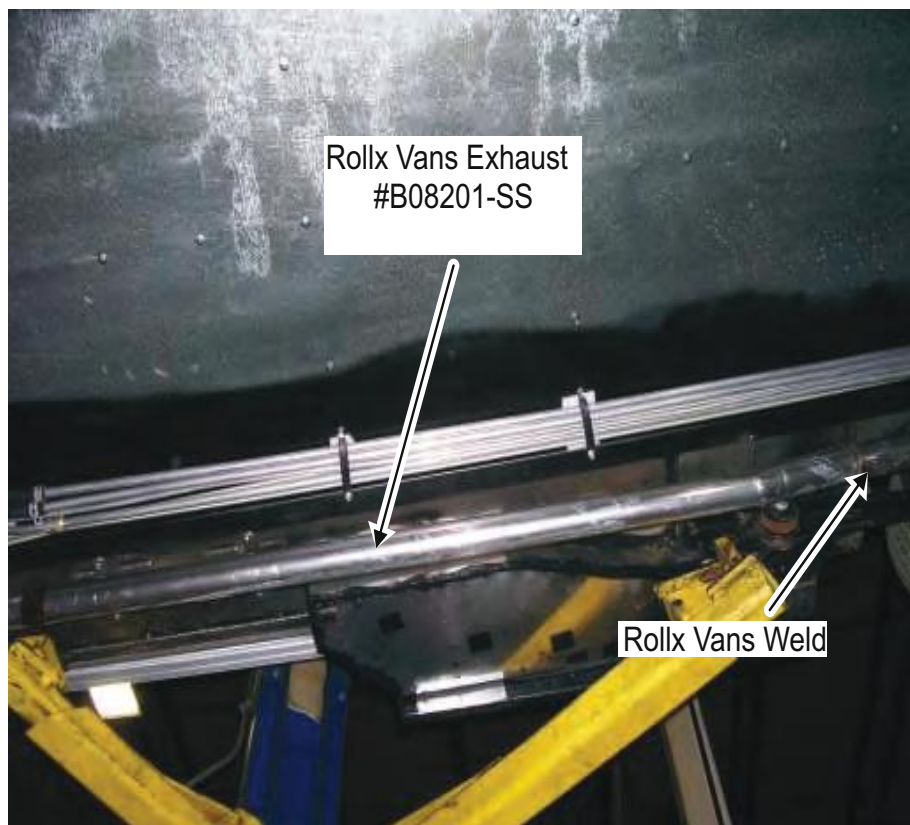
B08059ASM-PS-2010 -TRACK , DOOR ASM 2010-2016,PS

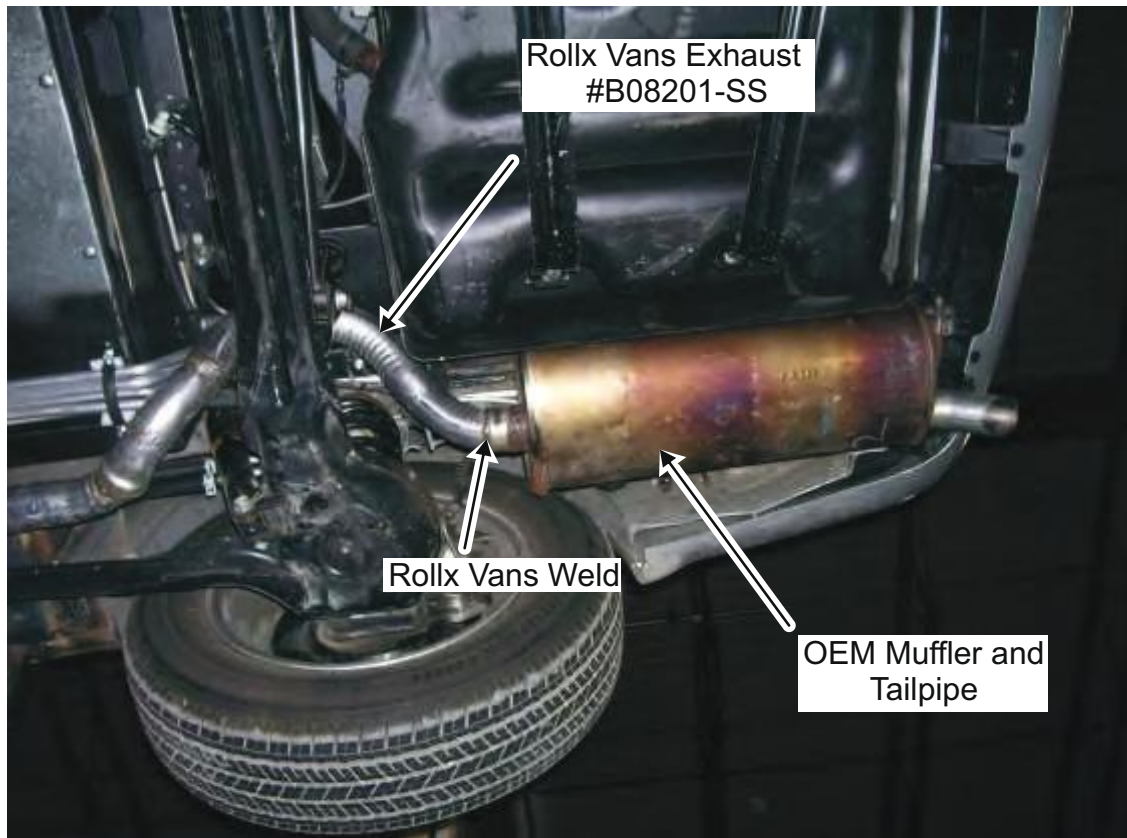




Rollx Vans begins their exhaust from the OEM Catalytic Converter (Rollx Vans does not modify the OEM Catalytic Converter or OEM O2 Sensor). Rollx Vans Exhaust is welded to the OEM Catalytic Converter and runs down the passenger side of the van.

Rollx Vans reuses the OEM Hangers to support the exhaust. Rollx Vans Exhaust is 2-1/4 inch diameter aluminized tubing and replaces the OEM 2-1/2 exhaust.





Rollx Vans Exhaust continues over the rear axle and is welded to the OEM Muffler and Tailpipe.

Rollx Vans eliminates the OEM Resonator.





-P = Passenger Side
-D = Driver Side



#B08180-P1
#B08180-D1

(Chrysler Vans Only)

#B08180-P4
#B08180-D4

(Dodge Vans Only)

#B08180-P4D
#B08180-D4D

(Before 12/2/08)

#B08180-P3
#B08180-D3

(After 12/2/08)

#B08180-P3.2
#B08180-D3.2

(Before 12/2/08)

#B08180-P2
#B08180-D2

(After 12/2/08)

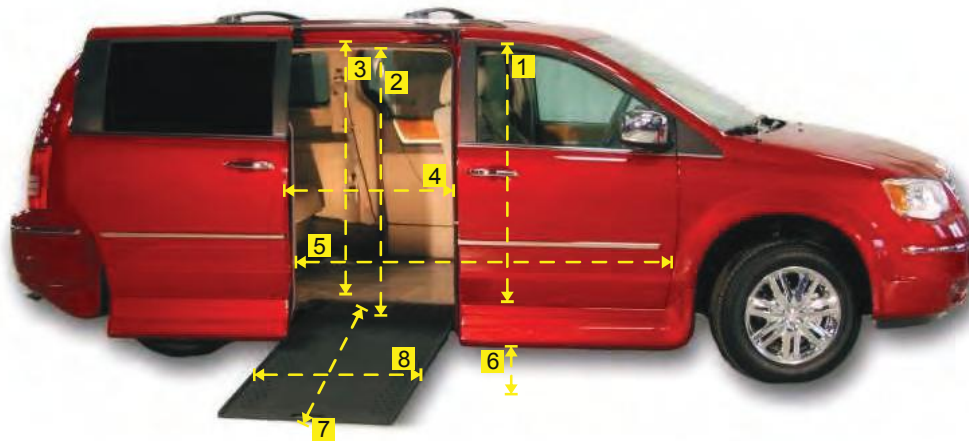
#B08180-P2.2
#B08180-D2.2

Side Step Ground Effects Service Kit # R0051

P.N.	Description	Qty
B08180-P1S	GFX PS SIDE STEP	1
B08180-D1S	GFX DS SIDE STEP	1
B08099	GFX SIDE STEP BRACKET	2

When replacing either of these ground effects on a 2008 Chrysler van built before 12/2/08, order as follows:

- D3 or P3 = it is necessary to replace both the D2 and D3 with the new D2.2 and D3.2 (same for passenger side).
- D2 or P2 = we have about 20 in stock of each so just replace that required piece until out of stock, then follow above rule.



Measurement	Description	Rollx Vans Chrysler/Dodge In The Floor Ramp 11 Inch Drop	Rollx Vans Chrysler/Dodge Folding Ramp 11 Inch Drop
1	Floor to Ceiling Height	58	58
2	Passenger Sliding Door Opening Height	54.5	54
3	Floor to Overhead Console	57	57
4	Passenger Sliding Door Opening Width	31.5	31.5
5	Cargo Area Length (Rear "z" to Firewall Along Floor)	84	84
6	Ground Clearance - Ground Effect	7	7
7	Ramp Length	50	55.5
8	Ramp Width (Inside Wall to Inside Wall)	30	29
	Cargo Area Width When Closed (Door to Door / Door to Ramp)	66.5	61.5
	Ground Clearance - Lowest Point (Exhaust)	5.5	5.5
	Cargo Area Length (Rear Sofa to Clip-in Base)	54.5	54.5

* All measurements are subject to change depending on various van configurations and should be used as approximations.



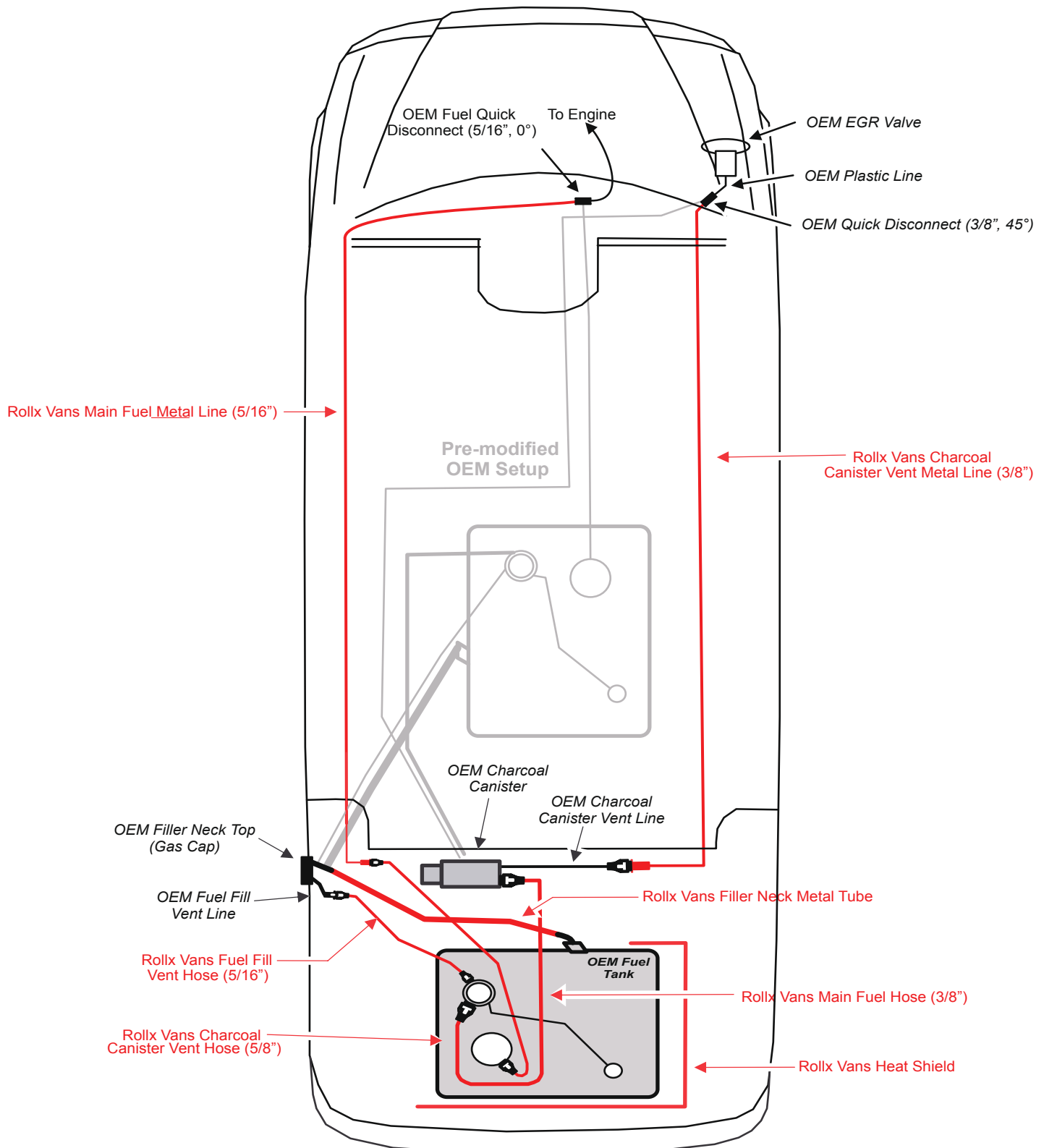
2011-2016 Chrysler Town & Country / Dodge Grand Caravan (3.6L)

Rollx Vans Fuel / Emission System Overview

Red Text = Rollx Vans Equipment

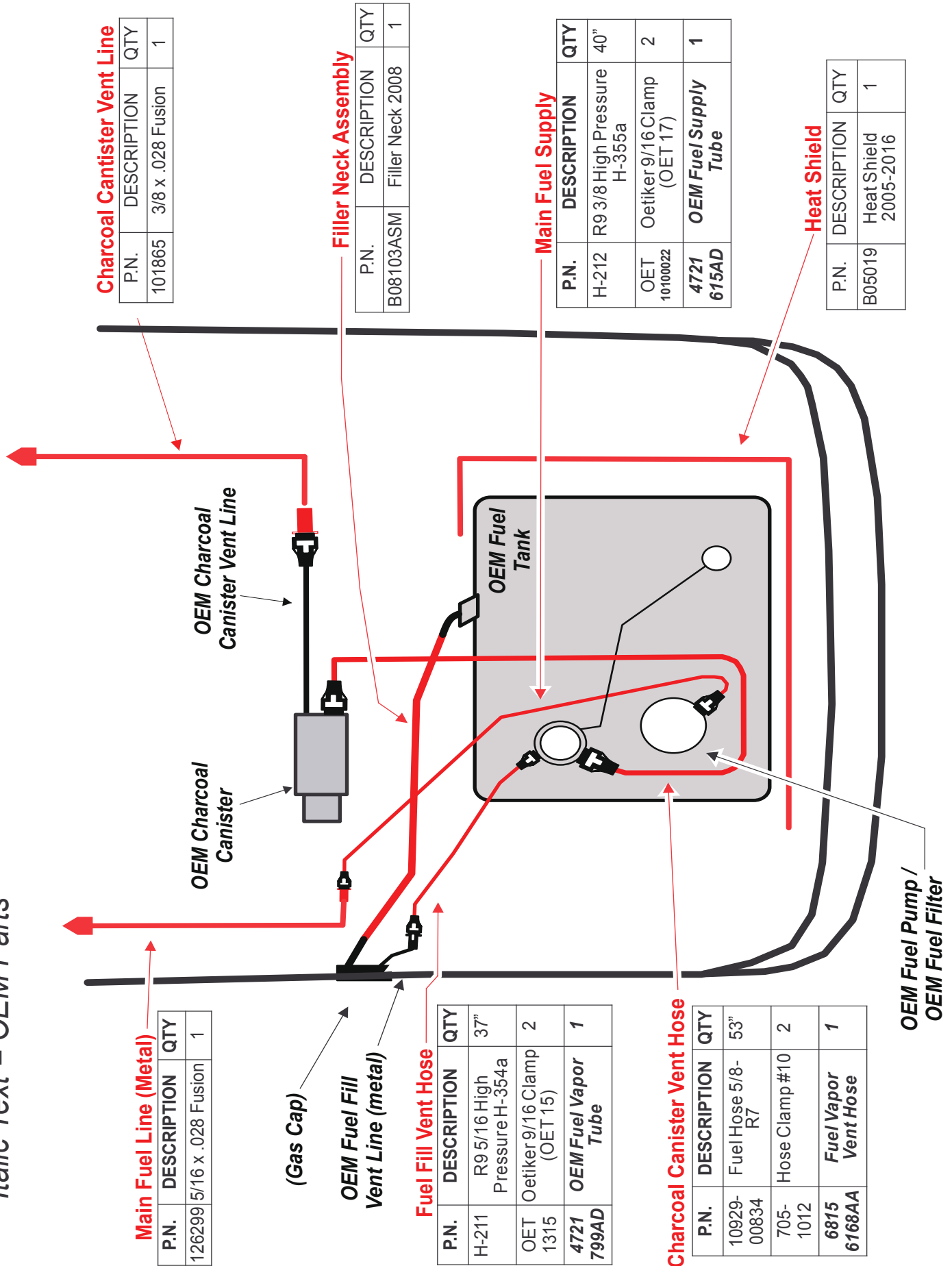
Italic Text = OEM Parts

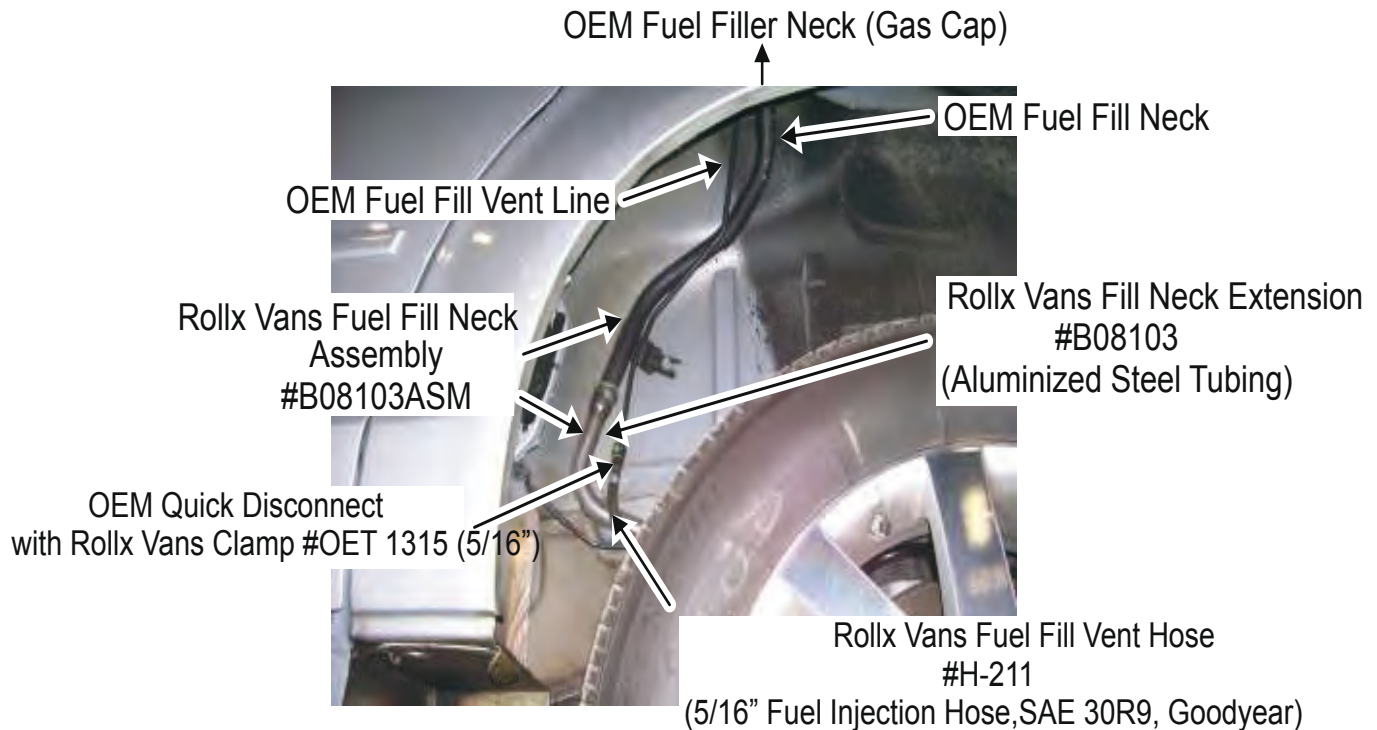
*See page 18 for Rollx Vans part #'s





Red Text = Rollx Vans Equipment
Italic Text = OEM Parts





Rollx Vans welds a Fill Neck Extension onto OEM Fuel Fill Neck to extend the OEM Fuel Fill Neck to the OEM Fill Neck Hose that attaches to the tank. The completed assembly is #B08103ASM that includes the OEM Fuel Fill Neck welded to the Rollx Vans Fill Neck Extension. The modified filler neck is smoke tested for possible pin hole leaks.

Rollx Vans attaches a Fuel Fill Vent Hose that begins at the gas tank to the OEM Fuel Fill Vent Line with a 9/16" clamp. This hose and the filler neck tube are routed underneath the frame.

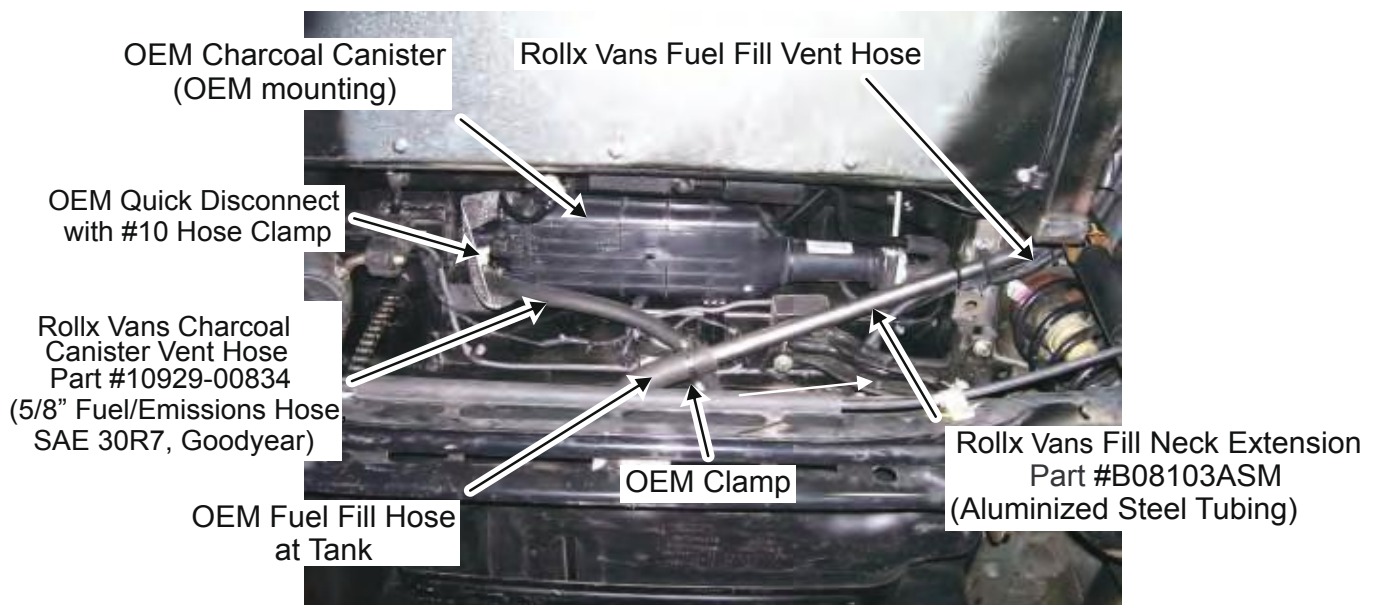


Rollx Vans re-uses the OEM Gas Tank.

Rollx Vans replaces OEM Fuel Fill Vent Hose with Rollx Vans Fuel Fill Vent Hose that runs to OEM Fuel Vent Line near Filler Neck top (Gas Cap).

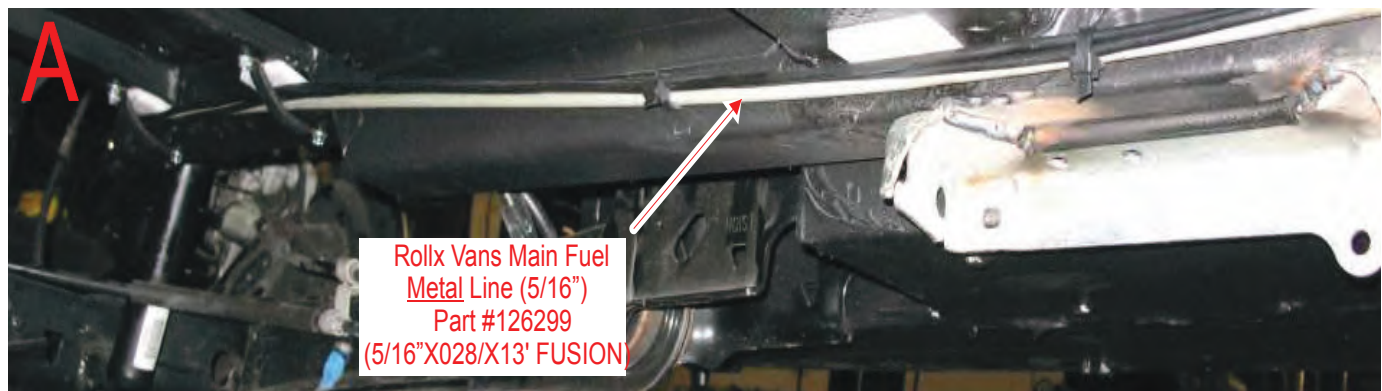
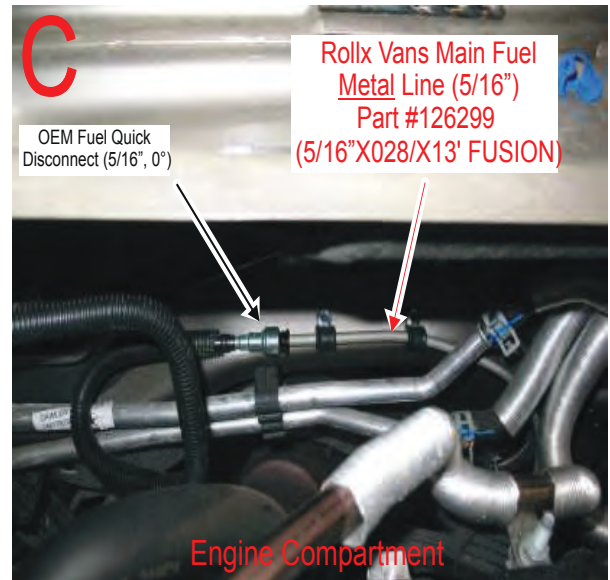
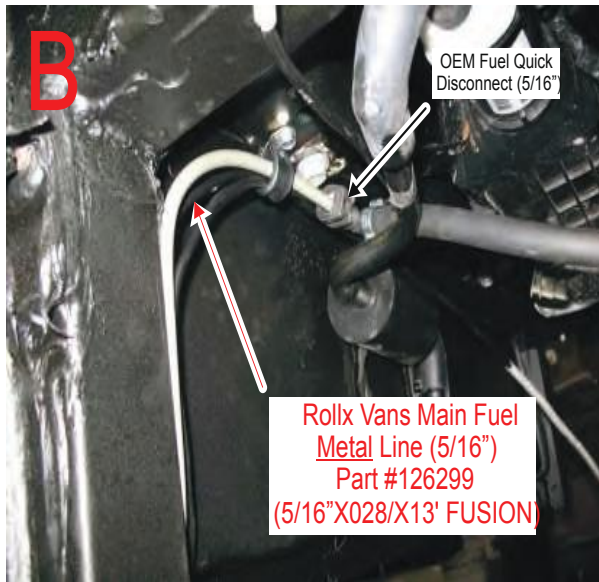
Rollx Vans replaces OEM Charcoal Canister Vent Hose with Rollx Vans Charcoal Canister Vent Hose that runs to OEM Charcoal Canister. Rollx Vans does not modify the OEM Charcoal Canister or its mounting.

Rollx Vans replaces OEM Main Fuel Hose with Rollx Vans Main Fuel Hose that runs to Rollx Vans Main Fuel Metal Line where it is attached to the flared metal line with the OEM Quick Disconnect.



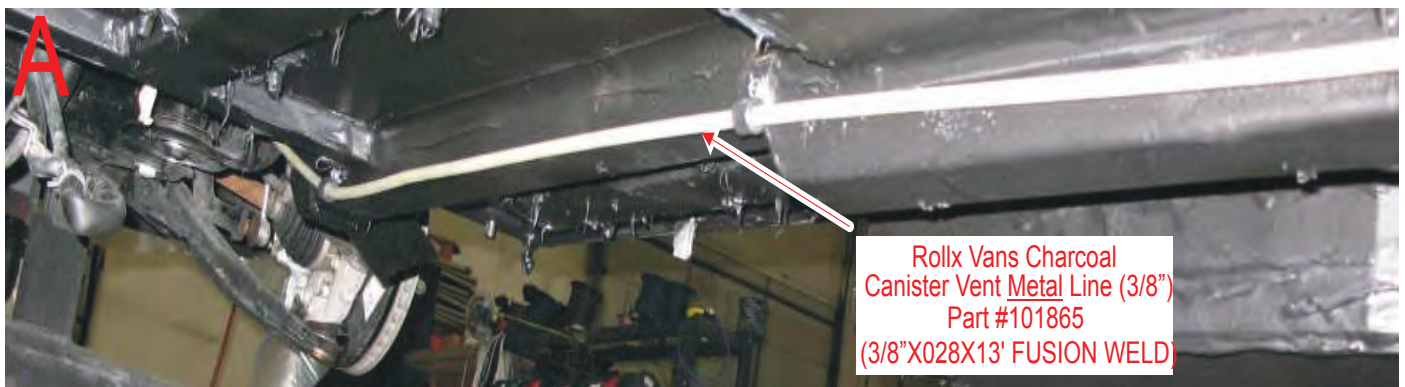
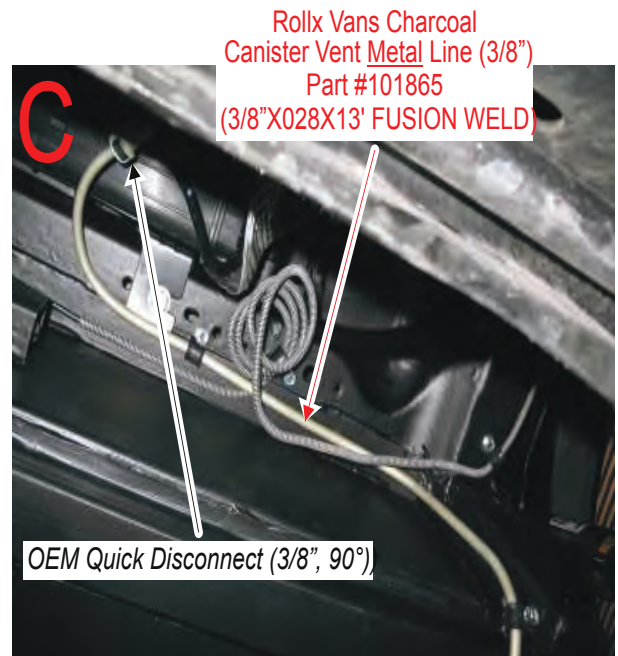
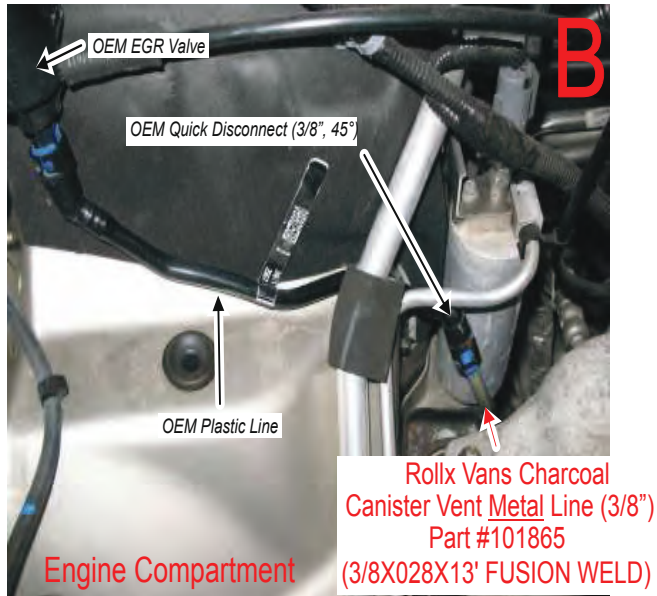


- A) Rollx Vans routes the Rollx Vans Main Fuel Metal Line (5/16") under the driver's side of the van using P-Clamps to secure.
- B) The Rollx Vans Main Fuel Metal Line (5/16") is routed up the rear z, flared and attached to OEM Quick Disconnect.
- C) The Rollx Vans Main Fuel Metal Line (5/16") is routed up under the engine compartment, flared and attached to OEM Quick Disconnect.



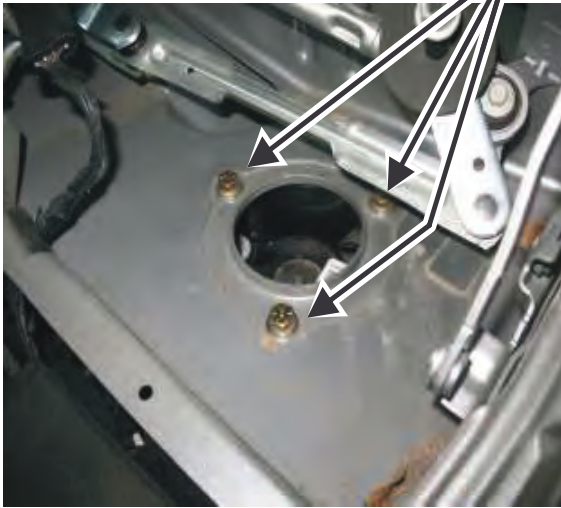


- A) Rollx Vans runs the Rollx Vans Canister Vent Metal Line (3/8") under the passenger side of the van using P-Clamps to secure.
- B) The Rollx Vans Canister Vent Metal Line (3/8") is routed up under the engine compartment, flared and attached to OEM Quick Disconnect.
- C) The Rollx Vans Canister Vent Metal Line (3/8") is routed up the rear z, flared and attached to OEM Quick Disconnect.





Front Strut Mounting Bolts #B08001ASM



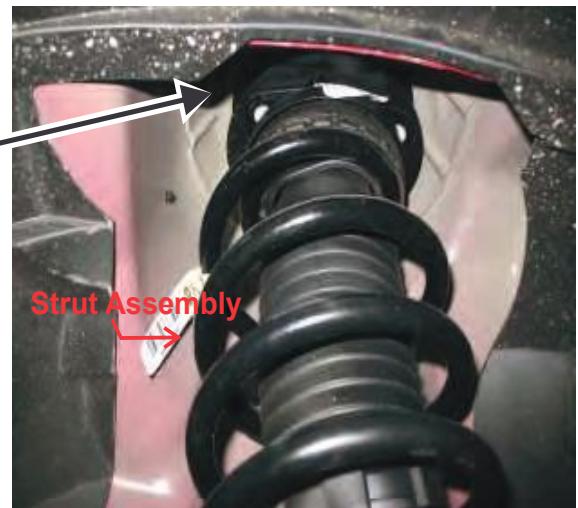
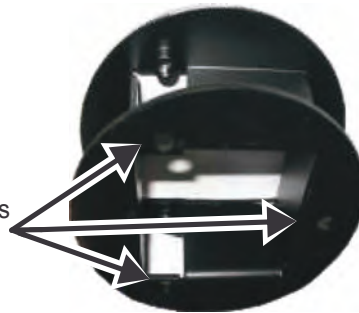
BOLTS:
5/16" -18 x 1" (QTY 6)
#0115055

WASHERS:
1/4" ZINC FLAT(QTY 6)
#1133004

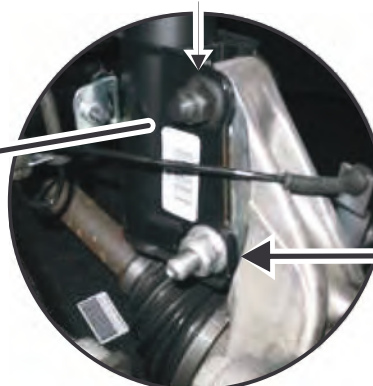
LOCK WASHERS:
5/16" (QTY 6)
#1133892

Strut Collar Assembly #B08001ASM

*Reuse OEM strut collar nuts to fasten collar to strut.



Adjustable Camber Bolt #41-214

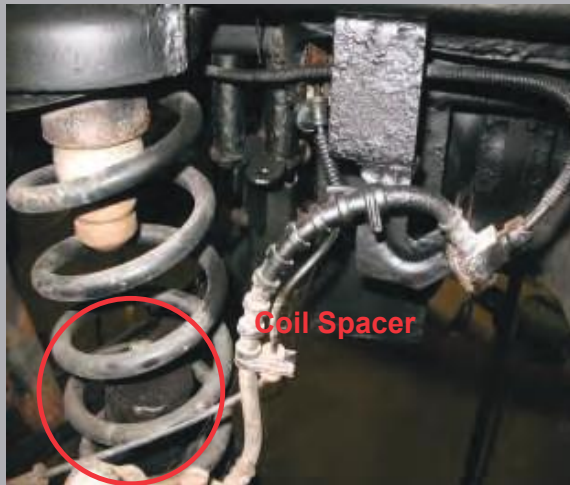


OEM
Camber Bolt



Vans Built Prior to 1-2-2013

COIL SPACER ON BOTTOM



SERVICE KIT #R0046

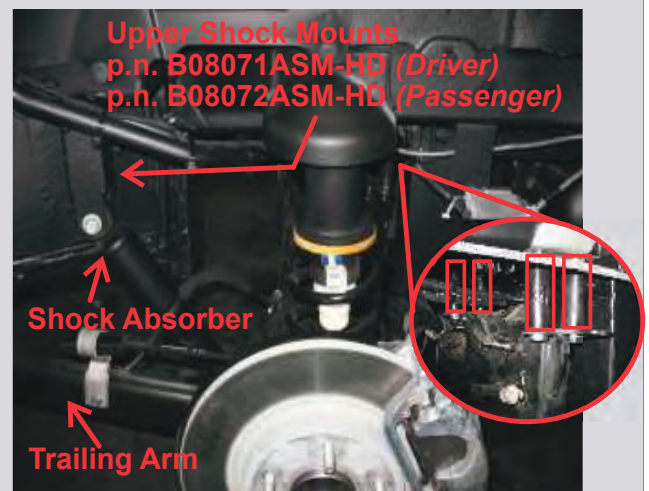


Vans Built After 1-2-2013

SNUBBER EXTENSION ON TOP



Traction Bar Spacers B08065



BOLTS: (QTY 4)
M10-1.50 x 100mm
#0153998

WASHERS: (QTY 4)
1/2" ZINC FLAT
#1133012

Kneel Axel Mount B08022





ENGINE MOUNTING (CRADLE DROP)

BOLTS:
M10-1.50 x 70mm (QTY 3)
#0153994

WASHERS:
3/8" ZINC FLAT(QTY 3)
#1133008



Right Side Engine Mount



1" Motor Mounts
N05010 (QTY 5)

BOLTS:
M12-1.50 x 70mm (QTY 2)
#38503

WASHERS:
1/2" ZINC FLAT(QTY 2)
#1133012



Left Side Engine Mount

2.5" Motor Mount
N05011 (QTY 5)

Front Engine Mount



OEM Isolator bolt
#4721 746AB (QTY 1)



Left Crossmember Bracket
(Right side same)



BOLTS:
M12-1.75 x 50mm (QTY 4)
#0154004

WASHERS:
3/8" ZINC FLAT(QTY 4)
#1133012



Left Cradle Mount
(Right side same)

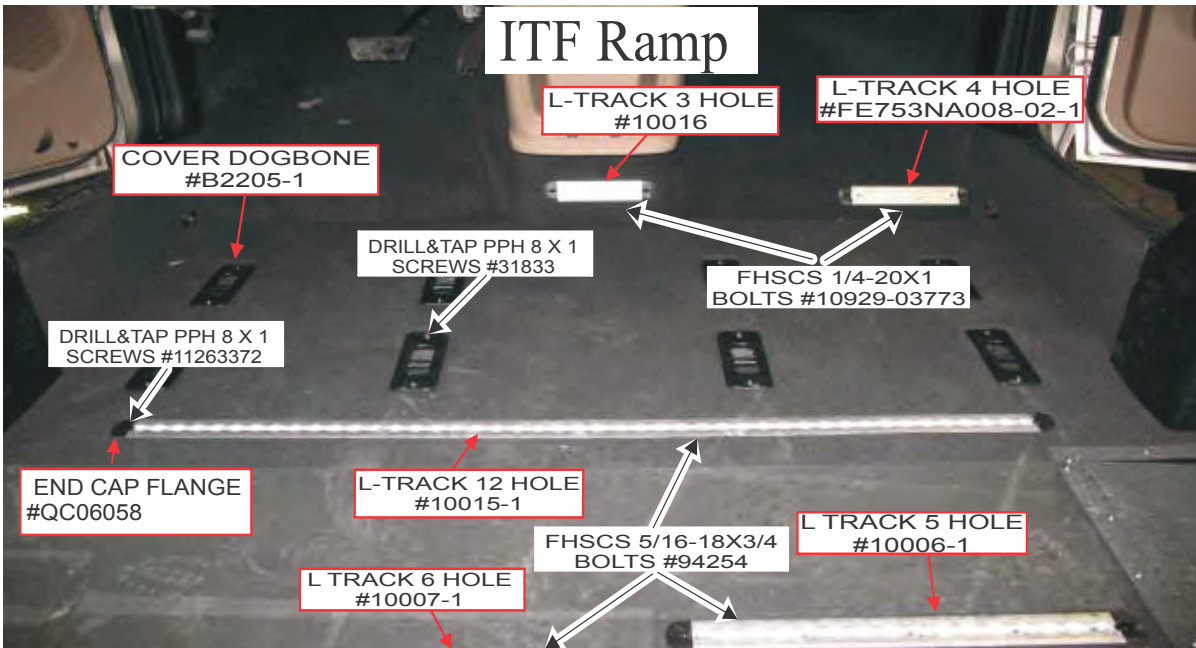
BOLTS:
M14-2.0 x 190mm (QTY 4)
#0122055

WASHERS:
3/8" ZINC FLAT(QTY 4)
#1133012

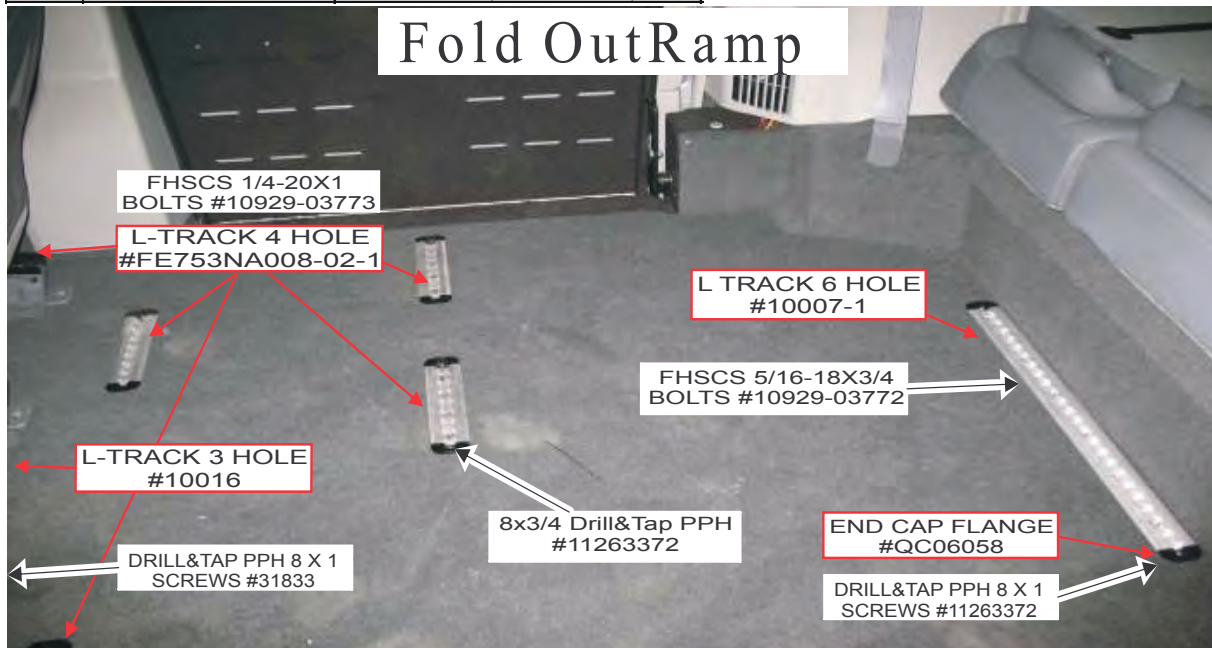
1" Motor Mount
N05010 (QTY 4)



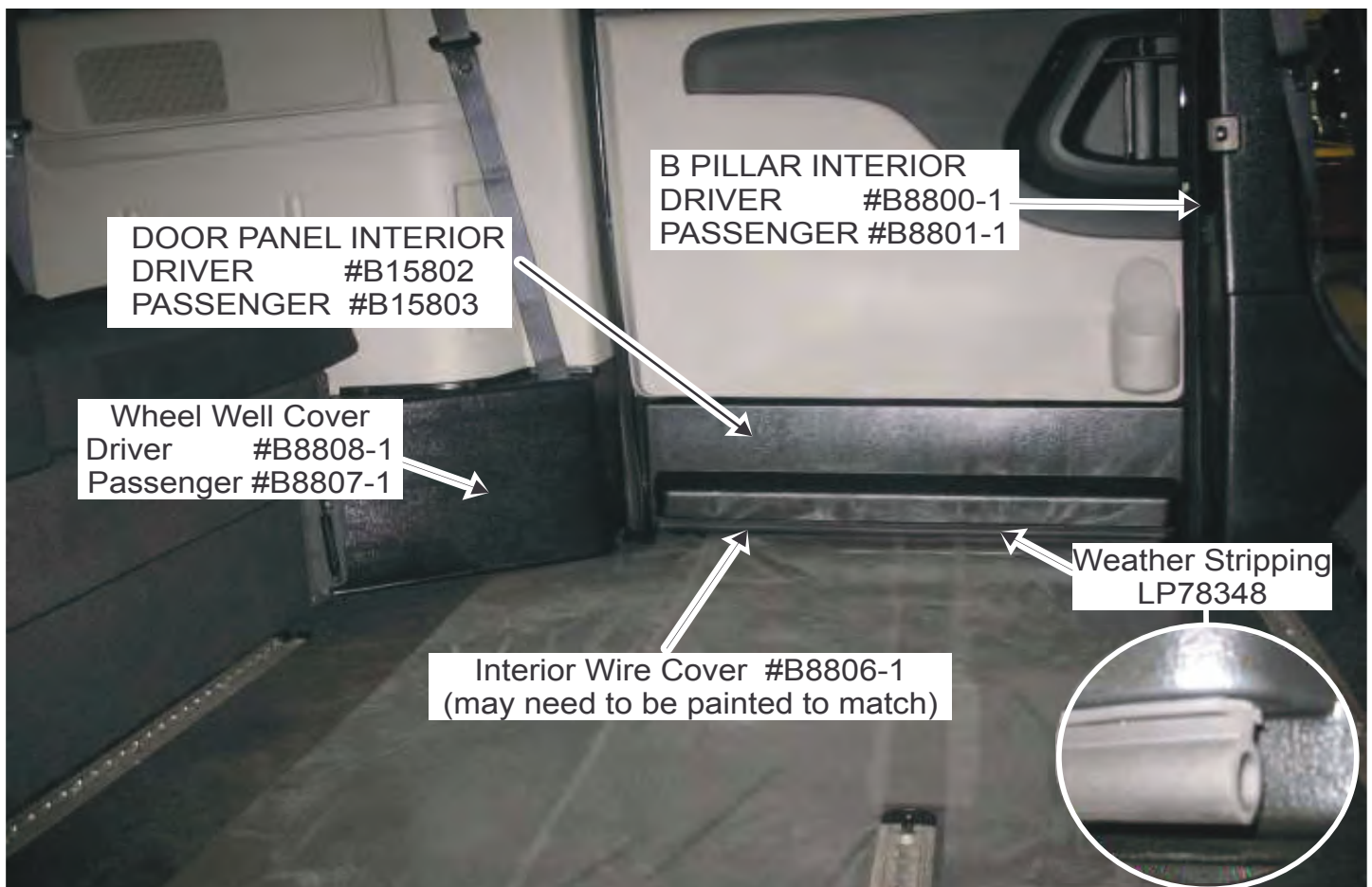
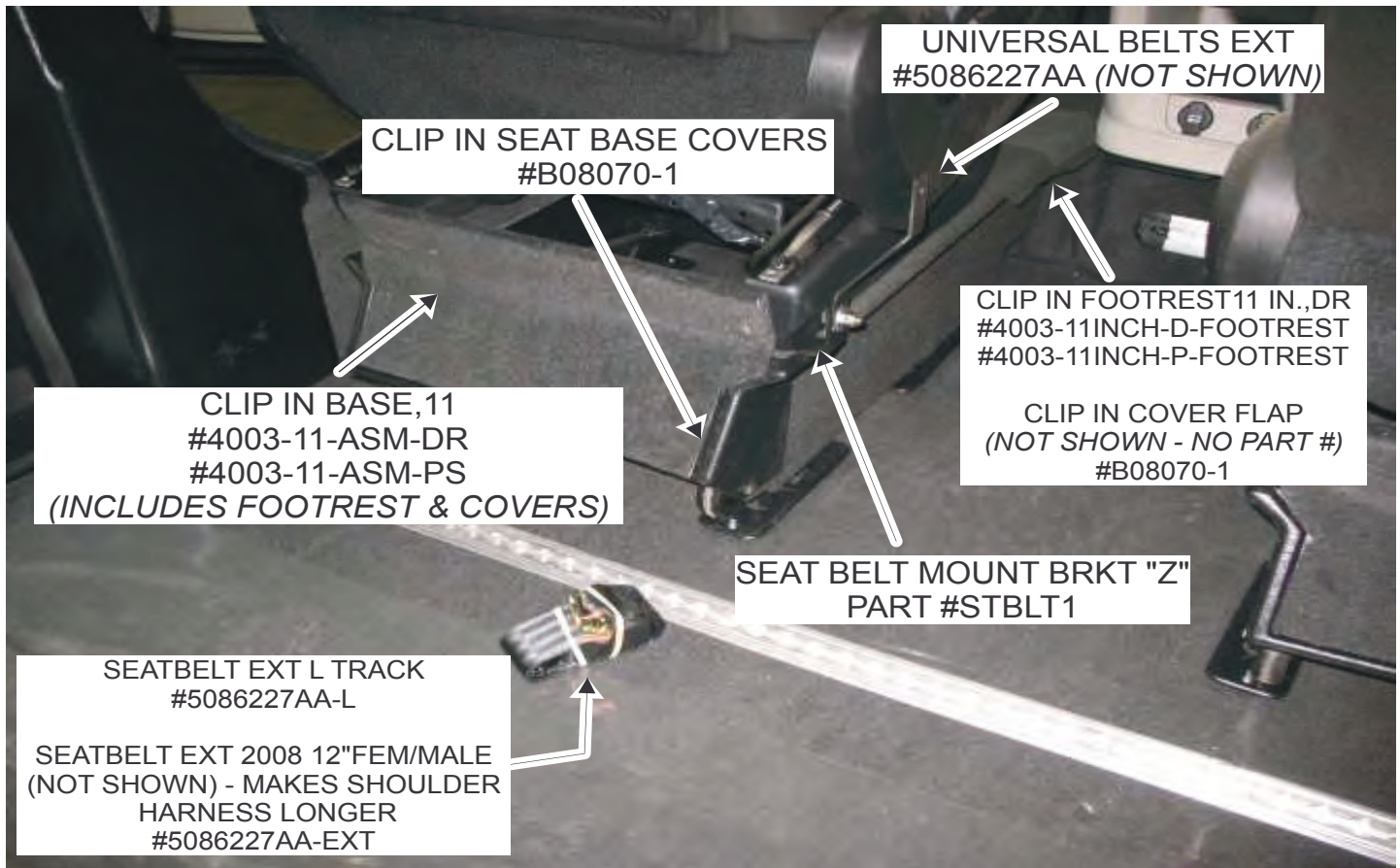
	<u>Torque Specifications</u>			
Location	<u>Item</u>			<u>Torque</u>
Front Suspension	Wheel nuts			100 Ft. Lbs.
	Camber Bolts			116 Ft. Lbs.
	Stabilizer Bar Link Nuts			65 Ft. Lbs.
	Strut Collar-to-Body			21 Ft. Lbs.
	Strut Collar-to-Strut			21 Ft. Lbs.
Rear Suspension	Wheel nuts			100 Ft. Lbs.
	Trailing Arm Bracket-to Body Bolts			40 Ft. Lbs.
	Trailing Arm Pivot Thru-Bolts			129 Ft. Lbs.
	Traction Bar To Axle Bolts			60 Ft. Lbs.
	Shock Absorber Upper Mounting Bolts			55 Ft. Lbs.
	Shock Absorber Lower Mounting Bolts			55 Ft. Lbs.
Engine & Cradle Mounting	Front Engine Mount			83 Ft. Lbs.
	Right Side Engine Mount			40 Ft. Lbs.
	Left Side Engine Mount			70 Ft. Lbs.
	Left & Right Cradle Mounts			120 Ft. Lbs.
	Left & Right Cross Member Brackets (M14 Bolts)			120 Ft. Lbs.
	Left & Right Cross Member Brackets (M12 Bolts)			40 Ft. Lbs.



QTY	P.N.	Description
8	B2205-1	COVER DOGBONE
16	31833	8 X 1 SCREWS (for dog bone covers)
10	QC06058	END CAP FLANGE TRK OMNI
10	11263372	8x3/4 SCREWS (for end caps)
1	10016	L TRACK 3 HOLE (dog house)
1	FE753NA008-02-1	L TRACK 4 HOLE (pass front crash)
1	10006-1	L TRACK 5 HOLE (pass cargo)
1	10007-1	L TRACK 6 HOLE (rear z)
1	10015-1	L TRACK 12 HOLE (behind front seats)
23	10929-03772	5/16-18X 3/4 BOLTS (for 5/16 L-Track)
7	10929-03773	1/4-20X1 BOLTS (for 1/4" L-Track)

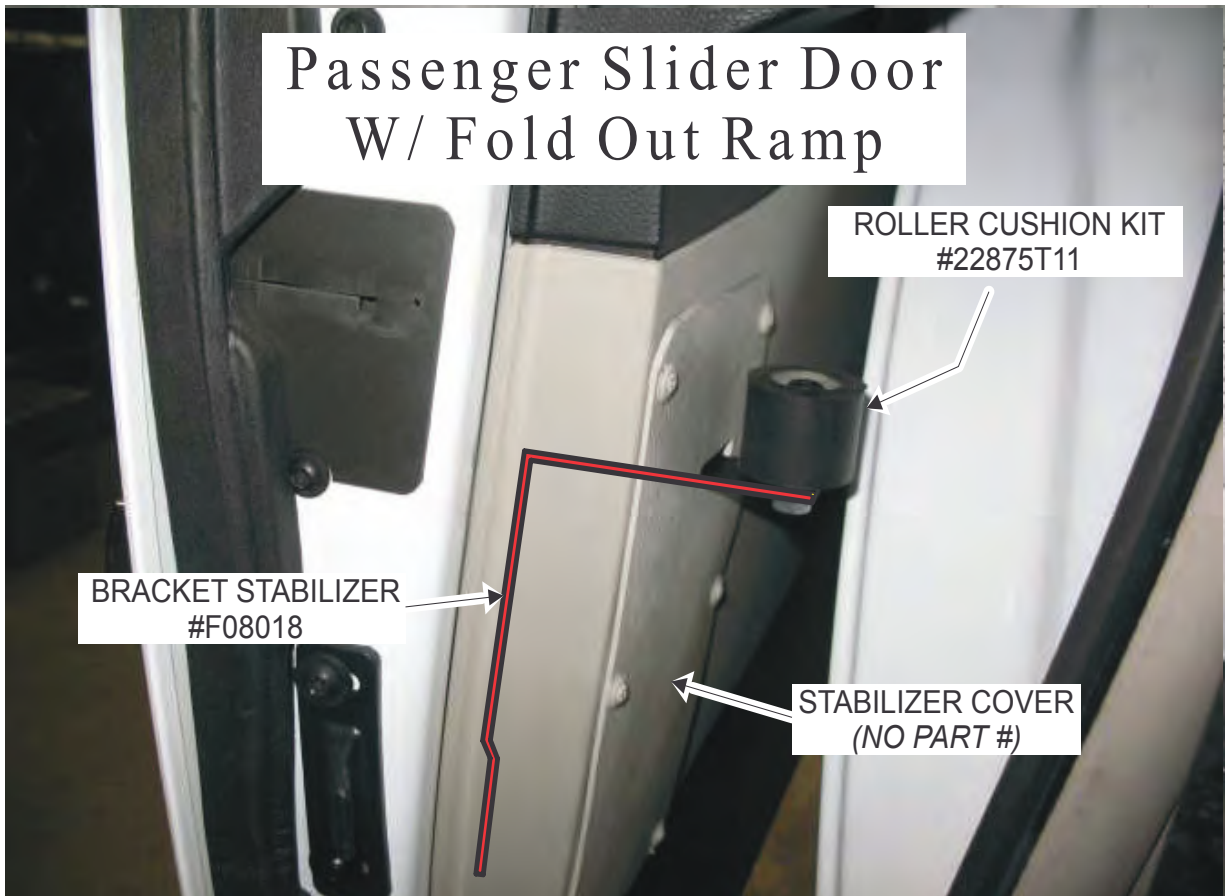


QTY	P.N.	Description
8	B2205-1	COVER DOGBONE
16	31833	8 X 1 SCREWS (for dog bone covers)
14	QC06058	END CAP FLANGE TRK OMNI
14	11263372	8x3/4 SCREWS (for end caps)
1	10016	L TRACK 3 HOLE (dog house)
5	FE753NA008-02-1	L TRACK 4 HOLE (pass front crash & floor)
1	10007-1	L TRACK 6 HOLE (rear z)
6	10929-03772	5/16-18X 3/4 BOLTS (for 5/16 L-Track)
27	10929-03773	1/4-20X1 BOLTS (for 1/4" L-Track)

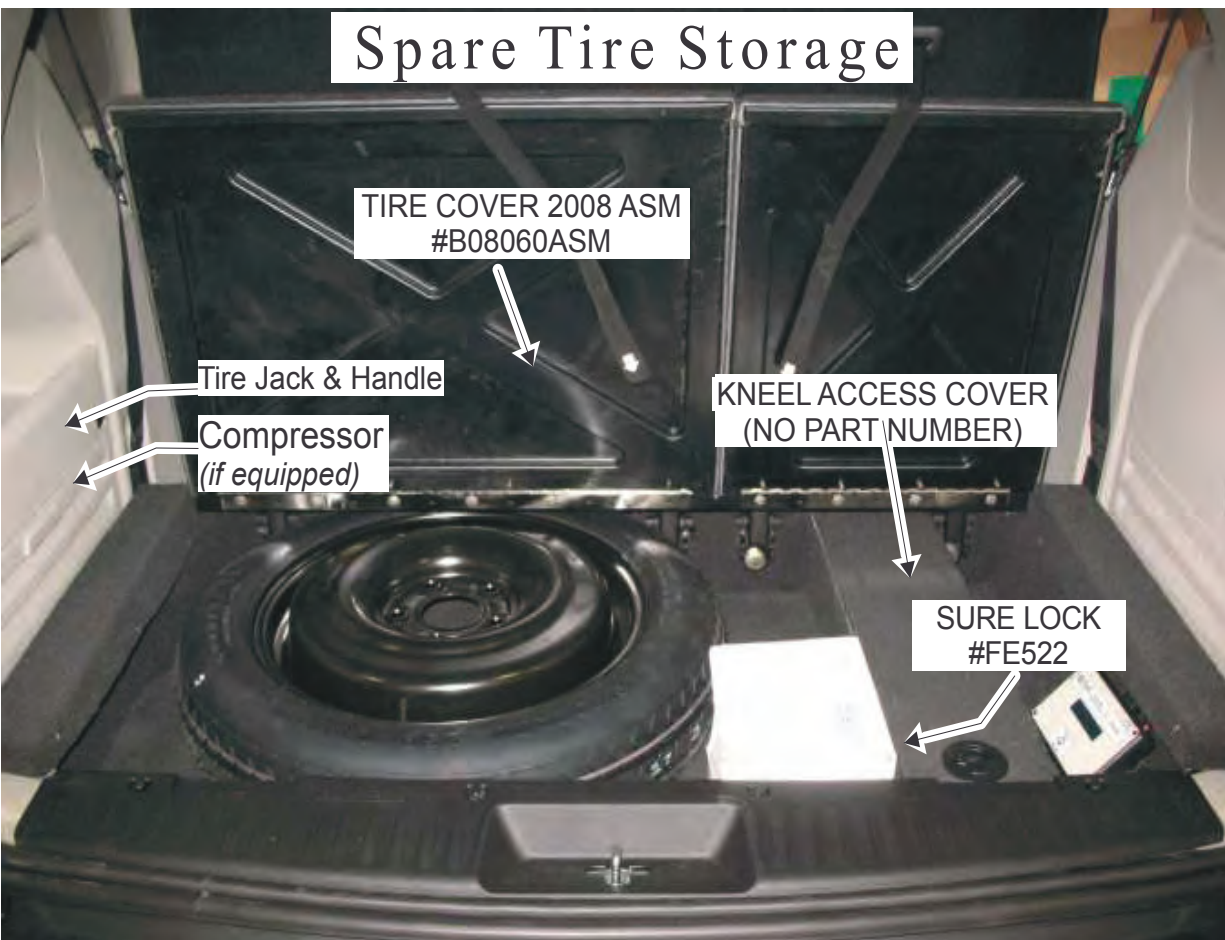




Passenger Slider Door W/ Fold Out Ramp



Spare Tire Storage





Flip Up Foot Rest

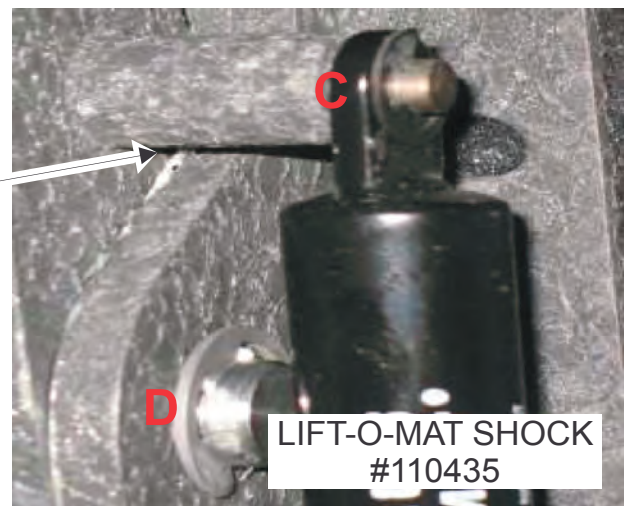
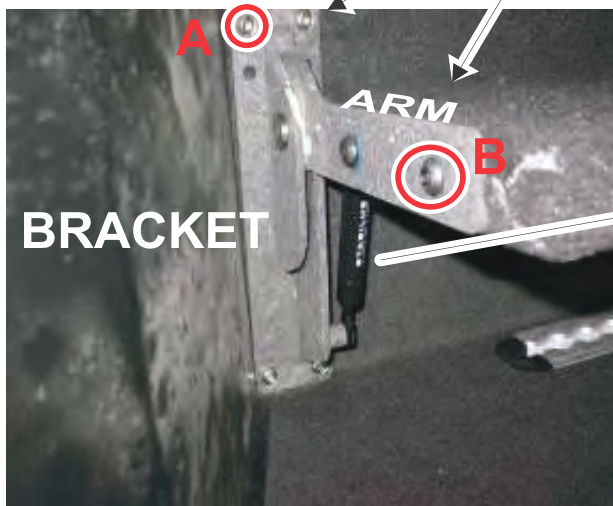
Service Kit R0052

REAR SOFA COVER
(NO PART #)

FLIP OUT MOUNT (RIGHT)
#B08097

FLIP OUT MOUNT (LEFT)
#B08096

Includes Brackets & Arms



MOUNTING HARDWARE

ITEM	P.N.	DESCRIPTION	QTY
A	10929-02112	1/4 - 20 X 1/2 TORX BOLT	8
B	173780	5/16 - 18 X 1 ALLEN BOLT	4
C	1168077	1/4 E CLIP	2
D	1168081	1/2 E CLIP	2

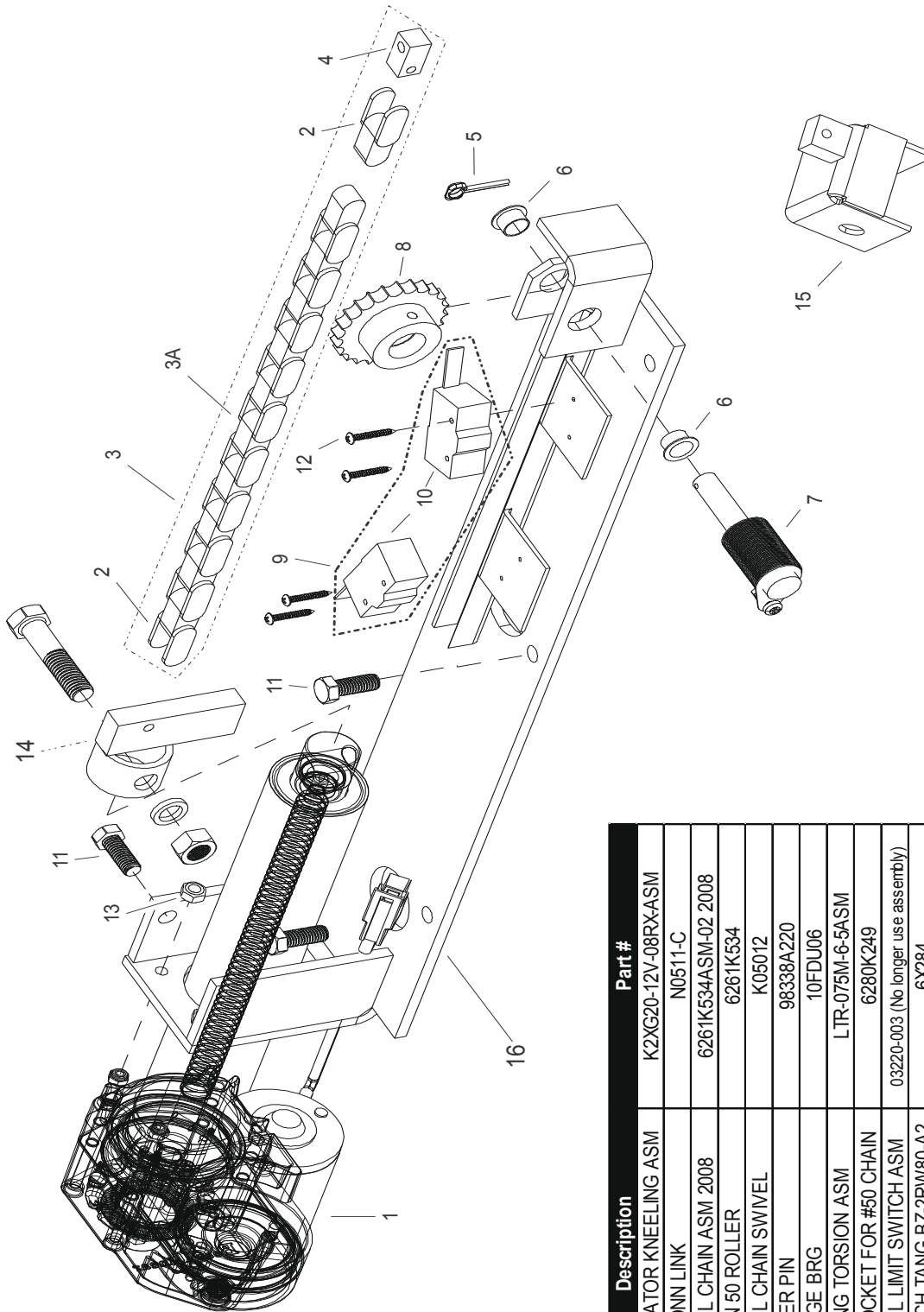


Note: Using the “Debug Mode” on the OTC board is a good resource to assist you in trouble shooting. Refer to the “One Touch System Interface Debugger” section and verify all the Inputs (limit switches) are functioning normally.

Symptom	Possible Cause	Remedy
Van does NOT LOWER to ground while door is opening after Rollx Vans user button is pressed.	Kneel on / off switch is turned OFF.	Turn kneel switch to the ON position.
	Kneel motor.	Review display board. Turn kneel switch to the OFF position and press OTC reset button. Temporarily operate sytem without kneel option enabled.
	Kneel chain is broken.	Replace Chain.
After van is lowered to ground the kneeler makes a loud ratcheting sound.	Kneel down limit switch was not activated.	Adjust kneel down limit switch. Replace if broken.
Van will NOT RAISE when ramp is stowed.	Kneel on / off switch is turned OFF.	Turn kneel switch to the ON position.
	Kneel motor.	Review display board. Manually un-kneel van, turn kneel switch to the OFF position and press OTC reset button.
	Kneel up limit switch is activated incorrectly.	Adjust kneel up limit switch. Replace if broken. Contact customer service.
Van raises and while door closing the kneeler ratchets.	Kneel up limit switch is not activated.	Once door is closed and van is at normal height, turn kneeling switch to the OFF position.



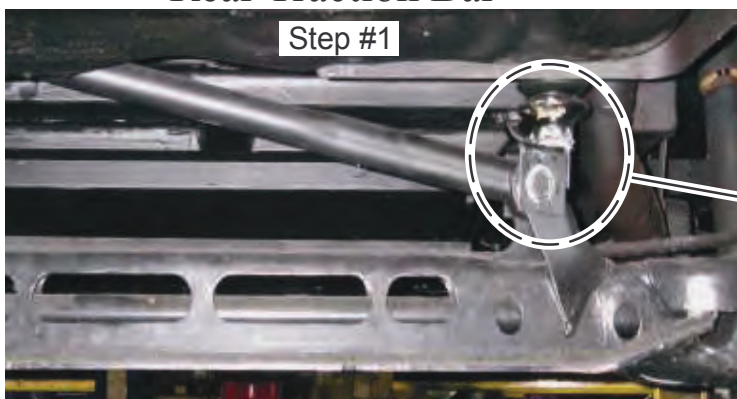
#KNEEL 2008 SNG OT-01 - KNEEL 2008 OTC SNG COMPLETE ASM



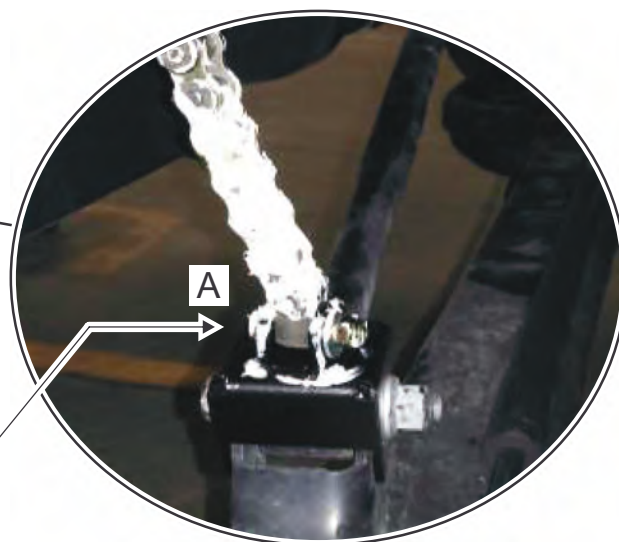
Item	Qty.	Description	Part #
1	1	ACTUATOR KNEELING ASM	K2XG20-12V-08RX-ASM
2	2	50 CONN LINK	N0511-C
3	1	KNEEL CHAIN ASM 2008	6261K534ASM-02 2008
3A	1.5	CHAIN 50 ROLLER	6261K534
4	1	KNEEL CHAIN SWIVEL	K05012
5	1	COTTER PIN	98338A220
6	2	FLANGE BRG	10FDU06
7	1	SPRING TORSION ASM	LTR-075M-6-5ASM
8	1	SPROCKET FOR #50 CHAIN	6280K249
9	1	KNEEL LIMIT SWITCH ASM	03220-003 (No longer use assembly)
10	2	SWITCH TANG BZ-2RW/80-A2	6X284
11	3	HCS 3/8-16 X 1Y28 QPA	0115105
12	4	PPH MS 6-32 X 1 1/2Z	1128838
13	4	10-32 NYLOCK NMZ	1137015
14	1	ACTUATOR GUIDE ASM	K05006ASM
Parts on Van			
15	1	KNEEL AXLE MOUNT	B08022
	1	RATCHET REVERSIBLE	800-0072*
	1	SOCKET 3/8"	4PW71*
	1	BOOT BLK "2005" KNEELACT	152303*
16	1	KNEEL ASSEMBLY BASE PLATE	K05100BKT-ASM
* Not Shown			



Rear Traction Bar

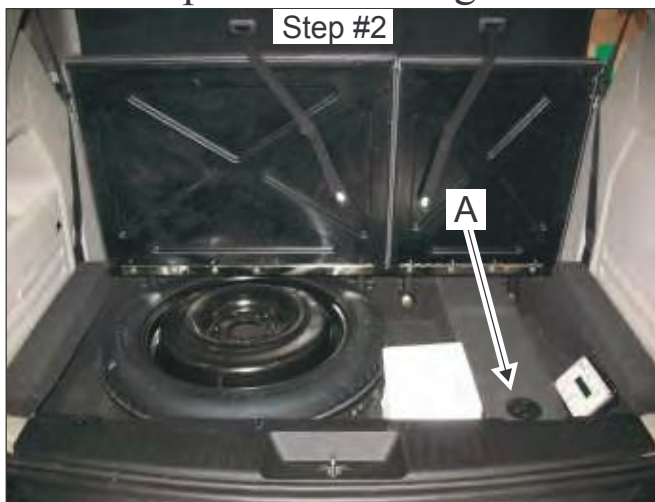


Step #1



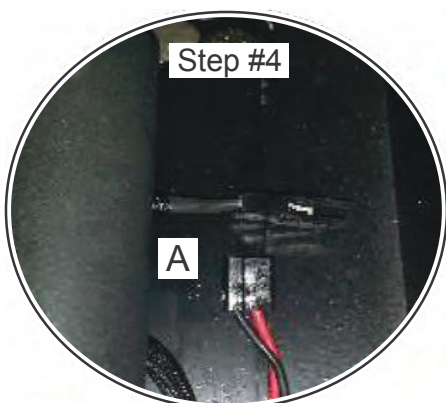
A) Using a 7/16" socket and wrench disconnect the kneel chain swivel bolt & nut from the kneel Axle Mount.

Spare Tire Storage



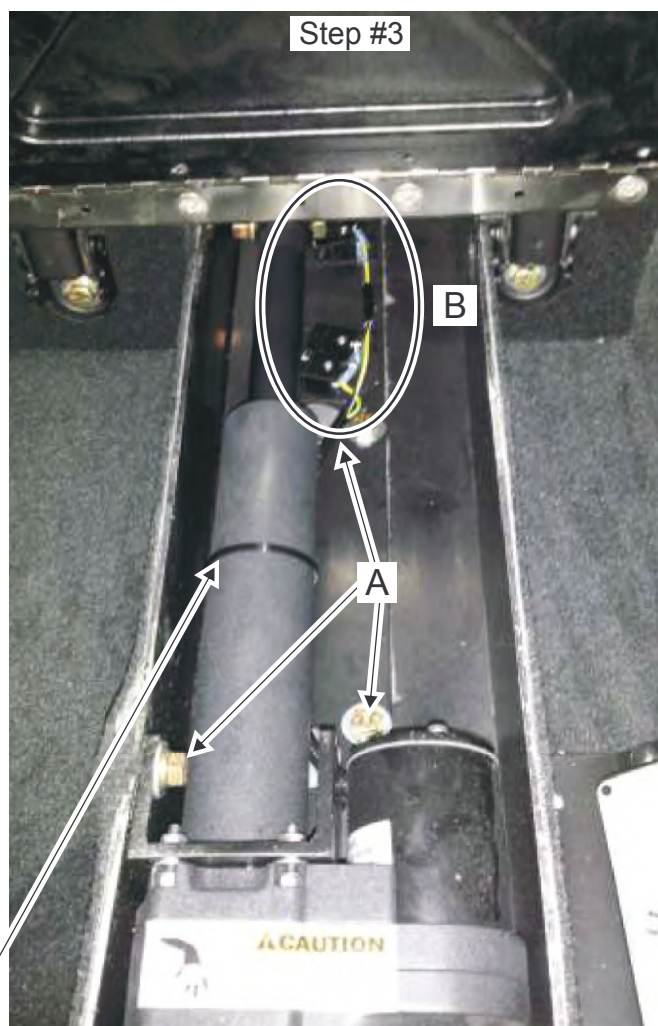
Step #2

A) Remove the kneeler cover located in the rear cargo area.



Step #4

A) Disconnect the Kneeler Motor plug.
B) Cut the zip ties holding the wires in place.
C) Remove Kneeler



Step #3

A) Remove the 3 mounting bolts with a 9/16" socket & wrench.
B) Remove the wires going to the limit switches with a small phillips screw driver

***Install new kneeler in reverse order**



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ONE TOUCH SYSTEM TROUBLESHOOTING

Important: If OTC Board is removed, the OEM System will not operate normally unless the CAN Bus Shunt is installed. The shunt is attached to the wire harness behind the OTC board. See OTC Wiring Diagram for more information. ONLY APPLIES TO VANS BUILT PRIOR TO 3/17/2014.

Symptom	Remedy
No power to One Touch Controller (OTC).	Check that OTC ON/OFF switch is on. The power toggle switch is on the actual OTC board itself.
	Ensure the connections on the back of the OTC board are tight.
	Check the OTC main fuse (40 amp) located near the vehicles main battery.
	Reset the OTC. The reset is located on the dash by the drivers left knee and on the OTC board (red button).
	Check battery voltage.
OTC beeps 4 times when the user tries to run a normal open/close cycle.	Battery is low. Turn off the OTC and charge battery. Note: The alarm will sound when the battery voltage is below 11.4 VDC. This is to prevent the OTC system from draining the battery far enough as to prevent the vehicle from starting. This level is adjustable in the board's Setup menu.
The van's battery is dead.	Van has been sitting for an extended period of time. Charge the battery.
	Check the current draw by placing an ammeter in series with the negative terminal on the battery with all doors closed and engine off. The draw varies, but awake, the system should be less than .850 amps and when sleeping, less than .050 amps. Additional equipment installed will also vary these numbers. See battery section for more information.
The OTC display is garbled	Reset the OTC. The reset is located on the dash by the drivers left knee and on the OTC board (red button).

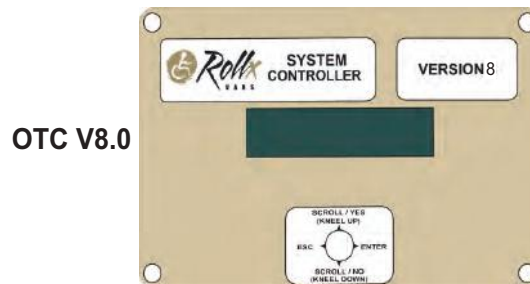


The Rollx Vans One Touch Controller, known as the OTC, is a Single Board Computer specifically designed for the Rollx Vans system.

The OTC system was designed to be independent to the operation of the Chrysler computer system. When power is removed from the OTC, it has no effect on the operation of the Chrysler system as long as the OTC Shunt Plug is installed into the OTC Main Harness on all 2008 Chrysler Vans due to the CAN BUS system (see OTC Wiring Diagram for more information).

The OTC is a low power system. When the OTC is in Sleep Mode with the Display disabled, it typically draws less than 10ma of current from the battery. When awake in Idle Mode (not running a cycle) with the Display enabled, it typically draws less than 200ma of current from the battery.

The current state of the OTC can be determined by viewing the Display. During open or close operation the progress of the system can be tracked by watching the Display.



Sequence of Operation

Open Cycle

- 1) The OTC is activated by any Rollx Vans User Switch or Remote being pressed.
- 2) Door unlock command sent (1 sec.) To Front Passenger Door Control Module to unlock all doors.
- 3) Door open command sent to OEM B-Pillar Door Open/Close Button to open the passenger sliding door.
- 4) Door starts to open.
- 5) Kneeler motor is turned on and starts to lower van.
*If door fails to open within 2 seconds of User Switch being pressed, cycle stops (van unkneels and cycle is ended)
- 6) Door reaches open position and activates Rollx Vans Door Open Limit Switch.
- 7) Passenger sliding door is disabled by OTC interrupting the CAN Bus signal with built in relay.
- 8) Ramp motor is turned on and starts to deploy.
- 9) Kneeler stops lowering when Kneel Down Limit Switch is activated.
- 10) Ramp stops deploying when Ramp Down Limit Switch is activated.
- 11) OTC enters Idle Mode.
- 12) OTC enters Sleep Mode.

Close Cycle

- 1) The OTC is activated by any Rollx Vans User Switch or Remote being pressed.
- 2) Ramp motor is turned on and starts to stow.
- 3) After a few seconds (ramp is off the ground and begun to slide into van) kneeler motor is turned on and starts to raise the van.
- 4) Kneeler stops raising when Kneel Up Limit Switch is activated.
- 5) Ramp stops stowing when Ramp Up Limit Switch is activated.
- 6) Passenger sliding door is enabled by OTC reconnecting the CAN Bus signal with built in relay.
- 7) Door close command sent to OEM B-Pillar Door Open/Close Button to close the passenger sliding door.
- 8) OTC receives signal from OEM Door Ajar Pin Switch that door is closed.
- 9) OTC enters Idle Mode.
- 10) OTC enters Sleep Mode.

Note: There are "Watch Dogs" programmed in the OTC software that act as timers to end a function if the function does not complete within a certain amount of expected and very reasonable time.



INPUTS

KNEEL DISABLE SWITCH (Violet wire) Allows the user to enable (the “I” position) or disable (the “O” position) the kneeling system. There is no display for this input.

OTC CONTROLLER POWER (2 White/Red wires) Supplies power to the OTC Board

USER SWITCH INPUT (Blue wire) Active while any Rollx Vans user button or Rollx Vans remote is pressed.

NEUTRAL INPUT (Green wire) Indicates the status of the gear shifter. When active, the van is either in neutral or park. The OTC system will not run a operational cycle unless the van is in neutral or park.

DOOR OPEN LIMIT INPUT (Orange/Red wire) Active when the right side sliding door is fully open.

DOOR CLOSE LIMIT INPUT (Violet/Yellow wire) Active when the right side sliding door is fully shut.

RAMP UP LIMIT INPUT (Red/Green wire) Active when the ramp is in the up position.

RAMP DOWN LIMIT INPUT (Red/White wire) Active when the ramp is in the down position.

KNEEL DOWN LIMIT INPUT (Yellow/Green wire) Active when the kneeler is in the down position.

KNEEL UP LIMIT INPUT (Yellow/White wire) Active when the kneeler is in the up position.

OUTPUTS

System Status: Indicates if the system is ready to except a command. It is off when the OTC is in sleep mode. V8.0 Display will show Rollx Vans: Idle.

RAMP DOWN MOTOR OUTPUT (Red wire) Active when the OTC is driving the ramp down (V6.0 & V8.0 OTC boards have obstacle detection monitoring this output).

RAMP UP MOTOR OUTPUT (Red/Black wire) Active when the OTC is driving the ramp up (V6.0 & V8.0 OTC boards have obstacle detection monitoring this output).

KNEEL DOWN MOTOR OUTPUT (Yellow/Black wire) Active when the OTC is driving the kneeler up

KNEEL UP MOTOR OUTPUT (Yellow/Red wire) Active when the OTC is driving the kneeler up.

DOOR DISABLE OUTPUT (Orange/Blue) Used by the OTC to disable the Chrysler right side door controller anytime it wants to open the ramp. This prevents the right side door controller from banging the right side sliding door against the ramp.

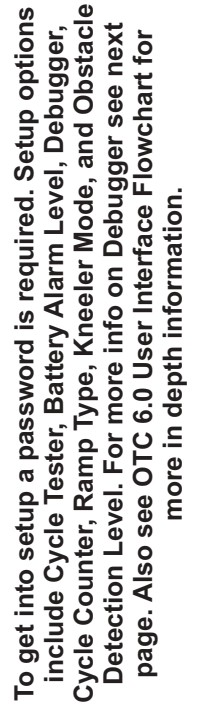
DOOR CONTROL OUTPUT (Orange) OTC sends a command to the Chrysler system to open or close the right side sliding door.

RAMP DISABLE OUTPUT (Red/Blue wire) Active anytime when the OTC is driving the ramp up or down. It indicates the ramp manual mode is disabled.

DOOR UNLOCK OUTPUT (Green/White) OTC sends a command to the Chrysler system to unlock the doors at the beginning of an open cycle.

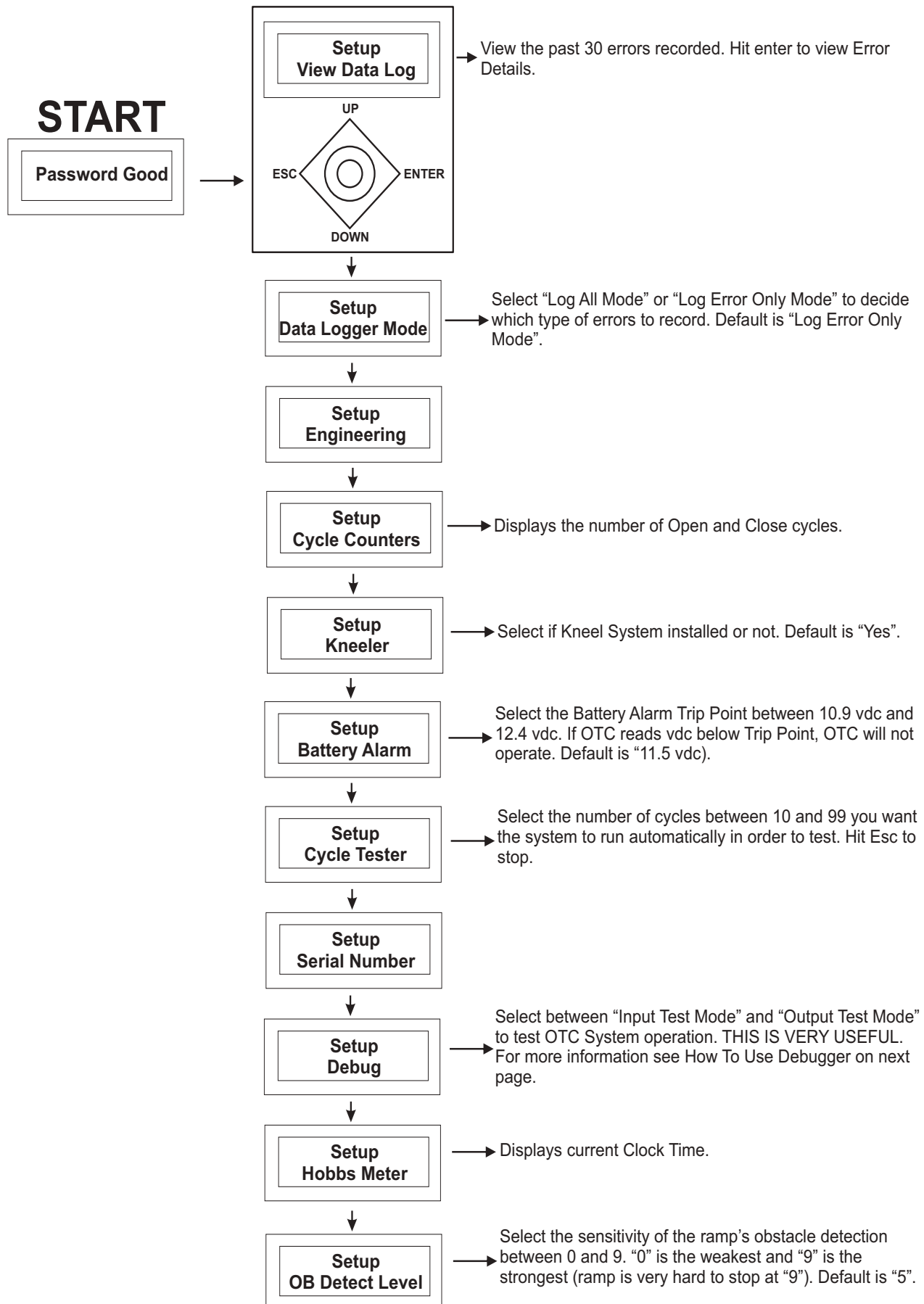


- 1) How to manually kneel van
- 2) How to check software and hardware versions
- 3) How to review error codes in Data Logger





Options within Setup

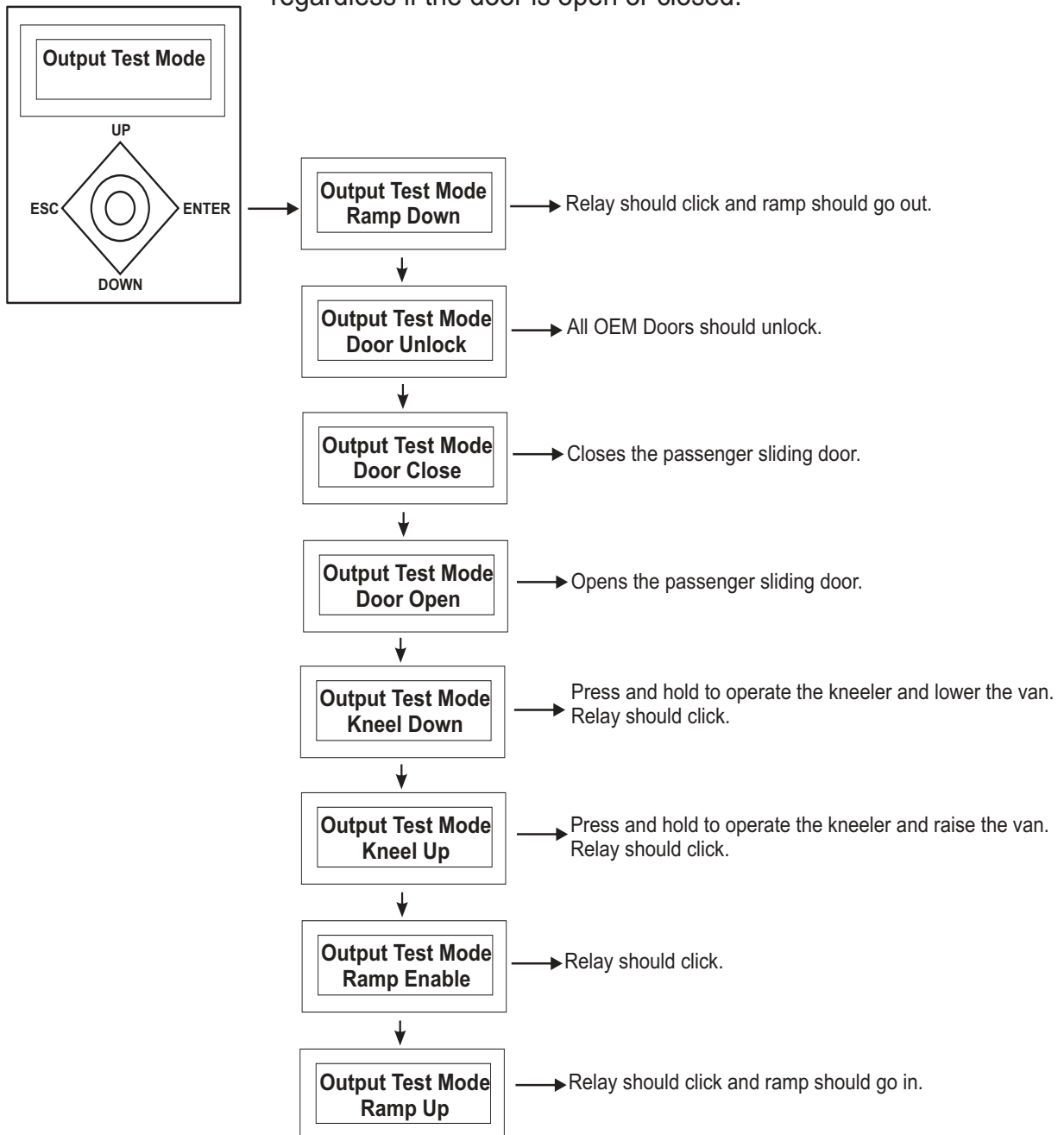




How to Use Debugger (Output Test Mode)

Use extreme caution when using the Output Test Mode. The Output Test Modes sends the signal directly to the OTC Relay Board which results in power going to the called motor. No safeties are in place (ie. The Ramp Down will operate the ramp regardless if the door is open or closed).

START

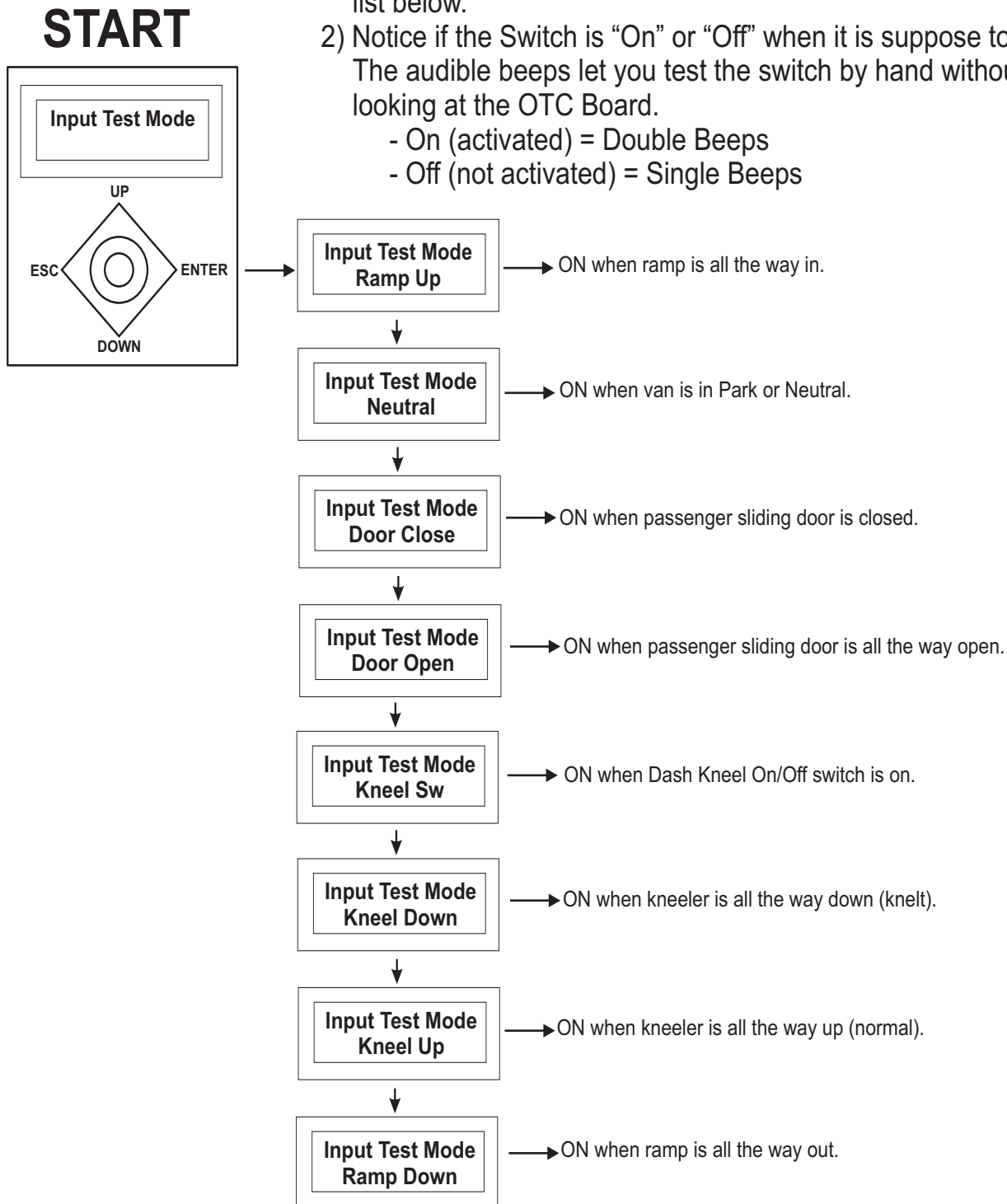




How to Use Debugger (Input Test Mode)

The Input Test mode is very useful for testing the various limit switches the systems requires. To operate:

- 1) Select a Limit Switch (Input) you would like to test from the list below.
- 2) Notice if the Switch is "On" or "Off" when it is suppose to be. The audible beeps let you test the switch by hand without looking at the OTC Board.
 - On (activated) = Double Beeps
 - Off (not activated) = Single Beeps





For information about OTC Interface and how to use the Debugger, please refer to 'One Touch System - v8.0 Advanced Interface' section. Remember, in Input Test Mode, double beeps indicate the switch is on or activated and single beeps indicate that it is not. Also refer to the 'One Touch System - Relay Board Troubleshooting' for more information about the Relay Board, its Override Switches and LED Indicator Lights.

Code	Description - What Caused the Code
Error 1 - Battery Low Error	Everytime before the OTC cycles, it checks the Main Battery's voltage. If reading is below the value set in the OTC Setup, the OTC will continue to operate, but will indicate a low battery warning. The default value is 11.5 volts.
Diagnostic Tests	More Information
Perform a Draw Test Follow instructions in 'Battery Information - Draw Test Procedure' Section	Rollx Vans recommends starting your van every 4-5 days, allow it to run 15-20 minutes to keep the battery at a sufficient state of charge. A timer is included on the OTC that will shut it off after 5 minutes UNLESS in Setup Mode. Update OTC if needed.

Code	Description - What Caused the Code
Error 11 - Door Control Error	Door Control Output failure (The OTC did not successfully control the door to open or close). The OTC did not receive the signal that the door came off the OEM Door Ajar Switch when opening or did not receive the signal that the door came off the Rollx Vans Door Open Switch when closing. Once the OTC sends the signal to open the door, it waits about 2 seconds to see if the Door Ajar Switch is not activated. If the Door Ajar Switch is still active, this message will appear.
Diagnostic Tests	More Information
Output Test Place OTC in Debug - Output Test Mode to verify OTC operates the door correctly by sending signal to OEM B-Pillar Switch and/or OEM Front Passenger Door Unlock Switch. 1) Check Door Open. 2) Check Door Close. 3) Check Door Unlock. 4) Check Ramp Enable. This closes a relay on the OTC Relay Board that enables the ramp to run (prevents the ramp from running if the door is not open, door open enables ramp enable).	OEM B-Pillar Switch / Door On/Off If off, the OEM Overhead Power Sliding Door On/Off Switch will prevent the door from operating from the OEM B-Pillar Switch. The OTC uses this switch to open or close the door. When off, the OTC can not control the door. Make sure the switch is on and try hitting the OEM B-Pillar switch. If the door still does not work, likely an OEM issue. If OEM function works, but OTC does not check wiring.
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Door Open (Rollx Vans Door Open Switch), by opening door all the way in Door Open. 2) Check Door Close (OEM Door Ajar Switch), by close door all the way in Door Close. Rollx Vans taps into OEM Door Ajar Switch in Lower B-Pillar (See OTC Wiring for more information).	Door Unlock Switch Door must be unlocked to open. First try OEM Unlock Switch in Passenger Front Door. The OTC uses this switch to unlock all the doors before an Door Open Command is sent. If OEM Switch does not unlock doors, likely an OEM issue. If OEM functions, but OTC does not check wiring. Door Ajar Switch If the OEM Door Ajar Switch is not deactivated within 2 seconds of the start of the cycle, Door Control Error will be returned.



Code	Description - What Caused the Code
Error 18 - Ramp Obstacle Detection Error	OTC detected that the ramp may have hit an obstruction on the in or out cycle. The OTC detects an obstruction by measuring the current generated from the ramp motor. The obstruction could be something in the way or a Ramp Limit is not recognized. If this current exceeds the set limit in the OTC Setup (default is 5, scale is 1-10 with 1 being the most sensitive)
Diagnostic Tests	More Information
Check Error Log for multiple Obstacle Detection Errors. If there are many, raise the level in Setup.	Setup - OB Detect Level (default is 5, scale is 1-10 with 1 being the most sensitive)
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Ramp Up [Limit Switch] by operating the ramp with Power Override Switch (ITF Ramp) or manually raising (Folding Ramp). 2) Check Ramp Down [Limit Switch] by operating the ramp with Power Override Switch (ITF Ramp) or manually raising (Folding Ramp).	If a Ramp Limit Switch fails, the Obstacle Detection should activate and cause an error. If the Obstacle Detection does not activate, the Ramp Watchdog Timer should. This will also cause an error (Error 27) and end the cycle.

Code	Description - What Caused the Code
Error 23 - Neutral Status Error	Everytime before the OTC cycles, it checks to make sure the van is in Park. This is for safety and can not be changed.
Diagnostic Tests	More Information
Input Test Place OTC in Debug - Input Test Mode to verify OTC recognizes if the van is in Park correctly 1) Check Neutral by placing the van in and out of Park and listening for the double beeps from the debugger.	Refer to Important Item Information or OTC Wiring Diagram for more information about where Rollx Vans gets this signal.

Code	Description - What Caused the Code
Error 25 - Emergency Stop Error	Anytime a Rollx Vans User or Remote Button is pressed during an open or close cycle, the system will stop immediately. If a Hard Wired User Button is held down long enough, the OTC will think it has been pressed twice and thus, cause an error.
Diagnostic Tests	More Information
Operate User Button to verify working correctly.	This is a safety feature and can not be changed.

Code	Description - What Caused the Code
Error 27 - Ramp Watchdog Error	Once the OTC sends the signal to start running the ramp motor in or out, a timer starts. If enough time passes before the proper limit switch is activated at the end of the cycle, the OTC will return this error. This is a safety feature to limit power to the motor in case of multiple failures.
Diagnostic Tests	More Information
Operate the In-The-Floor ramp with Power Override to help determine if motor and ramp are functioning correctly.	Not available on Folding Ramps.
Output Test Place OTC in Debug - Output Test Mode to verify OTC operates the ramp motor correctly. 1) Check Ramp Open. 2) Check Ramp Close.	Several factors such as low battery, cold weather or debris can prevent the motor from operating correctly. If low battery, very cold or a bad motor, the motor may run too slow causing this watchdog to activate. Debris can also prevent the motor or ramp operating at correct speed, also causing this error.
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Ramp Up [Limit Switch] by operating the ramp with Power Override Switch (ITF Ramp) or manually raising (Folding Ramp). 2) Check Ramp Down [Limit Switch] by operating the ramp with Power Override Switch (ITF Ramp) or manually raising (Folding Ramp).	If a Ramp Limit Switch fails, the Obstacle Detection should activate and cause an error (Error 18). If the Obstacle Detection does not activate, the Ramp Watchdog Timer should. This will also cause an error. If OTC Debug Output Test does not activate the motor being tested, try the overrides located on the OTC Relay Board. This will indicate a communication problem between the One Touch Controller and One Touch Relay Board.



Code	Description - What Caused the Code
Error 28 - Door Watchdog Error	Once the OTC sends the signal to operate the OEM Door, a timer starts. If enough time passes before the proper limit switch is activated at the end of the cycle, the OTC will return this error.
Diagnostic Tests	More Information
Operate the OEM Door with the OEM B-Pillar Switch to determine if OEM Door is functioning properly.	If OEM B-Pillar Switch is not working, try the OEM Overhead Door Switch and make sure the OEM Overhead Door On/Off Switch is on.
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Door Open (Rollx Vans Door Open Switch), by opening door all the way in Door Open. 2) Check Door Close (OEM Door Ajar Switch), by close door all the way in Door Close. Rollx Vans taps into OEM Door Ajar Switch in Lower B-Pillar (See OTC Wiring for more information).	If Door Limits function correctly and door cycles open and close okay, the issue is with the door taking too long to open or close. Check alignment or motor.
Output Test Place OTC in Debug - Output Test Mode to verify OTC operates the door correctly by sending signal to OEM B-Pillar Switch and/or OEM Front Passenger Door Unlock Switch. 1) Check Door Open. 2) Check Door Close.	If an Output is an issue, the Door Control Error (Error 11) will likely display.

Code	Description - What Caused the Code
Error 29 - Kneeler Watchdog Error	Once the OTC sends the signal to operate the Kneeler, a timer starts. If enough time passes before the proper limit switch is activated at the end of the cycle, the OTC will return this error.
Diagnostic Tests	More Information
Operate the Kneeler with Power Override to help determine if motor is functioning correctly.	Reset - Esc - Kneel Up/Kneel Down
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Kneel Up [Limit Switch], by raising Kneeler until switch is activated or activate switch by hand. 2) Check Kneel Down [Limit Switch], by Lowering Kneeler until switch is activated or activate switch by hand.	Testing with Power Override is preferred since it will indicate if Limit Switch is being properly activated by Actuator's Guide. When Kneel Actuator reaches its run limit, it will begin to ratchet making a terrible sound. This is simply the motor's clutch mechanism, is not damaging but should try and be minimized.
Output Test Place OTC in Debug - Output Test Mode to verify OTC operates the Kneeler correctly. 1) Check Kneel Up. 2) Check Kneel Down.	If OTC Debug Output Test does not activate the motor being tested, try the overrides located on the OTC Relay Board. This will indicate a communication problem between the One Touch Controller and One Touch Relay Board. Also a low battery, bad motor or cold weather causing the motor to run very slowly can return this error.

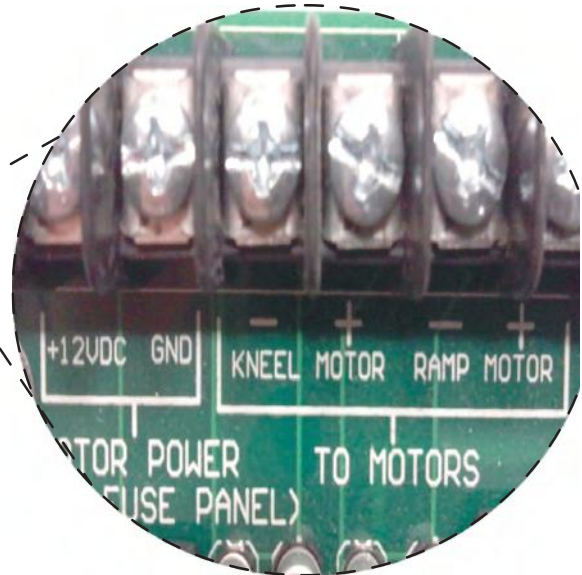
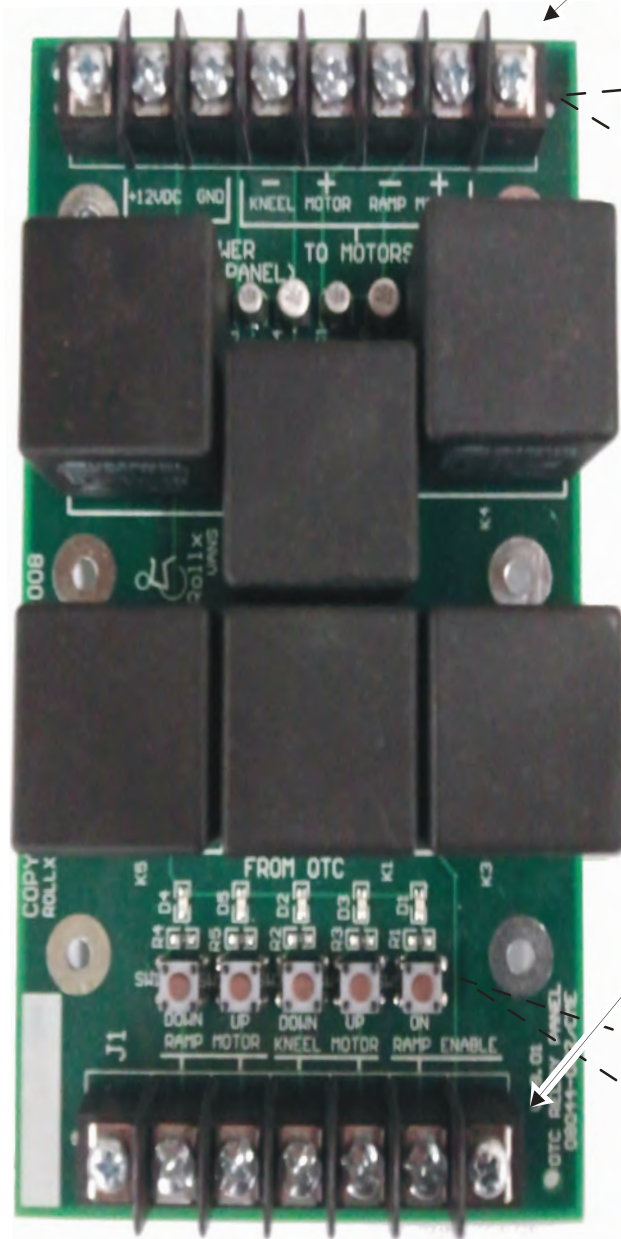
Code	Description - What Caused the Code
Error 33 - Door Ajar Error	The OTC will not run a Cycle if the door is Ajar (Not fully opened or closed). If Ramp deployed, open door fully. If ramp stowed, fully close and latch door.
Diagnostic Tests	More Information
Operate the OEM Door with the OEM B-Pillar Switch to determine if OEM Door is functioning properly.	If OEM B-Pillar Switch is not working, try the OEM Overhead Door Switch and make sure the OEM Overhead Door On/Off Switch is on.
Input Test Place OTC in Debug - Input Test Mode to verify limits operate correctly. 1) Check Door Open (Rollx Vans Door Open Switch), by opening door all the way in Door Open. 2) Check Door Close (OEM Door Ajar Switch), by close door all the way in Door Close. Rollx Vans taps into OEM Door Ajar Switch in Lower B-Pillar (See OTC Wiring for more information).	



RELAY BD OTC VERSION 2
P.N. 08044-003
ORDER #OTCV8 RELAY BD

OUTPUTS

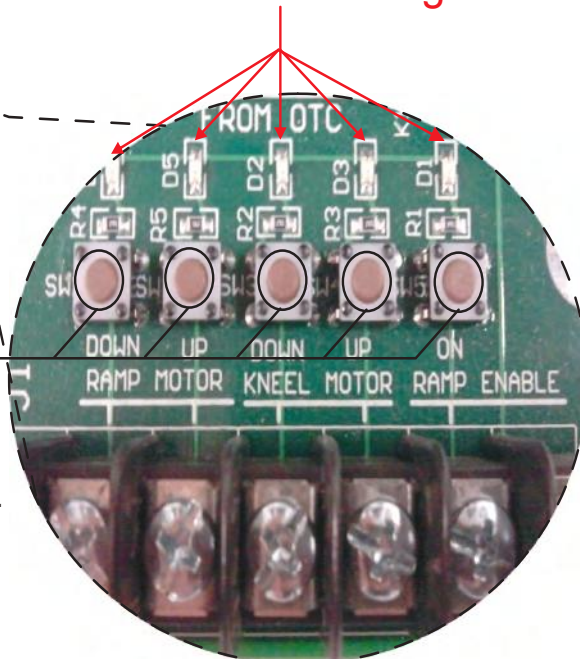
Run to the Kneeler and Ramp Motors



INPUTS

Run from the OTC Control Board

LED Indicator Lights



Manual push button test switches

*Pressing the switches should operate each function as shown on the board as long as the board is working properly. Remember, in order to run the ramp, the Ramp Enable must also be pressed at the same time. Pressing a switch is the same as sending a ground to the terminal.



IN THE FLOOR TROUBLESHOOTING

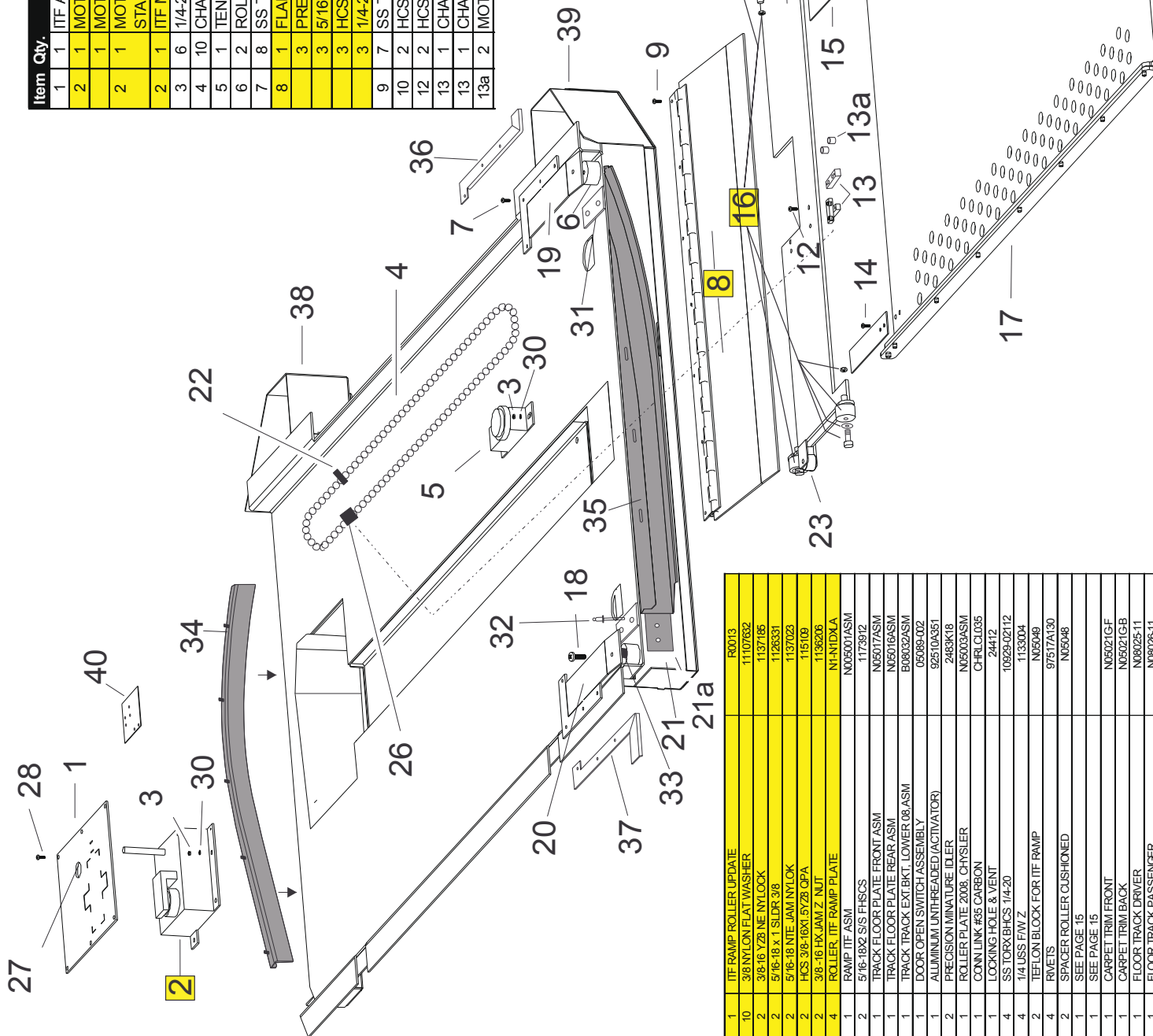
Note: Using the “Debug Mode” on the OTC board is a good resource to assist you in trouble shooting. Refer to the “One Touch System Interface Debugger” section and verify all the Inputs (limit switches) are functioning normally.

Symptom	Possible Cause	Remedy
Ramp will NOT DEPLOY after door opens automatically.	Door is not fully open.	Check the upper or lower door tracks for obstructions, ensure door opens freely and latches.
	Door open limit not detected -faulty door detector or wiring (For vans with Door detectors).	Replace door detector or trouble shoot & repair circuit. See OTC Wiring diagrams.
	Door open limit not detected - faulty door open limit switch or wiring. (For vans with door open limit switches).	Replace or adjust door open limit switch or trouble shoot & repair circuit. See OTC wiring diagrams.
	Ramp motor not engaged.	Engage ramp motor. Refer to the "Important Items location" section of this manual.
	Ramp down limit switch may be activated or wiring is bad.	See limit switch adjustment and OTC wiring diagram.
	Bad ramp motor or chain is too tight.	Check wiring, loosen chain or replace motor.
Ramp will NOT STOW automatically.	Ramp motor not engaged.	Engage ramp motor. Refer to the "Important items location" section of this manual.
	Bad ramp motor or chain is too tight.	Check wiring, loosen chain or replace motor.
	Ramp up limit switch may be activated.	See limit switch adjustment and OTC wiring diagram.
	Low voltage from the battery.	Start vehicle. Press OTC reset button and press Rollx Vans user button again.
Ramp will deploy before door is all the way open.	Door open limit switch may be activated or wiring is shorted to ground.	Replace or adjust door open limit switch or repair wiring.
	Faulty door detector or wiring is bad.	Replace door detector or trouble shoot & repair wiring. See OTC Wiring diagrams.
Ramp will STOP mid-cycle.	Obstacle is detected.	Clear obstruction and press Rollx Vans user button.
	Chain is too tight.	Loosen chain by adjusting tensioner.
Ramp will start to deploy or stow then stop functioning.	Pressure on cover plate or chain is too tight.	Ensure that there are no objects on top of cover plate or loosen chain.



IN THE FLOOR (METAL SPRINGS) REPLACEMENT PARTS

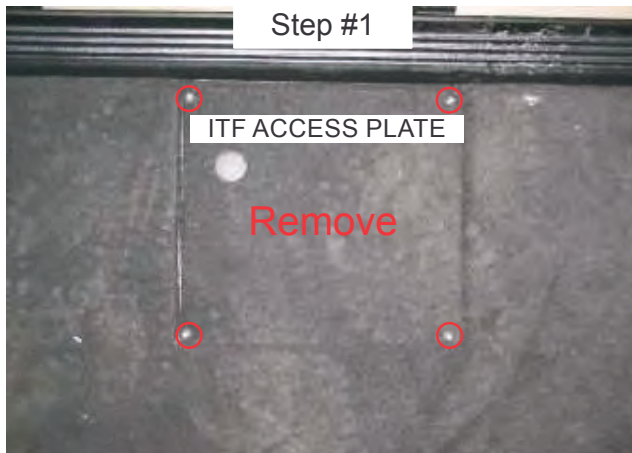
Item	Qty.	Description	Part #
1	1	ITF ACCESS PLATE	N05019
2	1	MOTOR GEAR BOX ITF 2008 ASM	N08111ASM
1	1	MOTOR WITH GEAR ONLY	N08111-MTR/GEARASM
2	1	MOTOR GEAR BOX ITF 2014ASM	N14111ASM
1	1	START DATE 1/2/14	
2	1	ITF MOTOR ONLY (START DATE 1/2/14)	218-2001
3	6	1/4-20 YZ NE NYLOCK	1137183
4	10	CHAIN ROLLER SS #35	35
5	1	TENSIONER/SPROCKET ASM ITF	10005
6	2	ROLLERS CUSHIONED	22875T11
7	8	SS TORX BHCS 1/4-20	10929-02112
8	1	FLAP ASM ITF RAMP	N05014ASM
3	3	PRECISION MINATURE IDLER*	2483K18
3	3	5/16" x 1/16" NYLN WSHR	76002
3	3	HCS 1/4-20X1 1/4 YZBP*	0115007
3	3	1/4-20 YZ NE NYLOCK*	1137183
9	7	SS TORX BHCS 1/4-20	10929-02112
10	2	HCS1/4-20X1Y28 QPACK	0115005
12	2	HCS 1/4-20 X 3/4 YZ8 QPA	0115003
13	1	CHAIN ANCHOR	N05033
13	1	CHAIN ANCHOR (STARTED DATE 1/2/2014)	N14033
13a	2	MOTOR SPACERS (STARTED DATE 1/2/2014)	N14034



16	1	ITF RAMP ROLLER UPDATE	R0013
10	3/8 NYLN FLAT WASHER	11107632	
2	3/8-16 YZ8 NE NYLOCK	1137185	
2	5/16-18 x 1 SLDR 3/8	1126331	
2	5/16-18 NTE JAM NYLOCK	1137023	
2	HCS 3/8-16X1 1/2 YZ8 QPA	115109	
2	3/8-16 HX JAM Z NUT	1136206	
4	ROLLER ITF RAMP PLATE	NI-NIDXA	
17	1	RAMP ITF ASM	N05001ASM
18	2	5/16-18X2 S/S FHCS	1173912
19	1	TRACK FLOOR PLATE FRONT ASM	N0507ASM
20	1	TRACK FLOOR PLATE REAR ASM	N05016ASM
21	1	TRACK TRACK EXT BKT LOWER 08 ASM	B08032ASM
21a	1	DOOR OPEN SWITCH ASSEMBLY	05089-002
22	1	ALUMINUM UNITHREADED (ACTIVATOR)	92510A351
23	2	PRECISION MINATURE IDLER	2483K18
24	1	ROLLER PLATE 2008 CHRYSLER	N05003ASM
26	1	CONN LINK #35 CARBON	CHRLCLO35
27	1	LOCKING HOLE & VENT	24412
28	4	SS TORX BHCS 1/4-20	10929-02112
30	4	1/4 USS F/W Z	1133004
31	2	TEFLON BLOCK FOR ITF RAMP	N05048
32	4	RIVETS	97517A130
33	2	SPACER ROLLER CUSHIONED	N05048
34	1	SEE PAGE 15	
35	1	SEE PAGE 15	
36	1	CARPET TRIM FRONT	N05021GF
37	1	CARPET TRIM BACK	N05021GB
38	1	FLOOR TRACK DRIVER	N08025-11
39	1	FLOOR TRACK PASSENGER	N08026-11
40	1	RAMP LIMIT SWITCH BRACKET (use with N08111ASM)	N05039

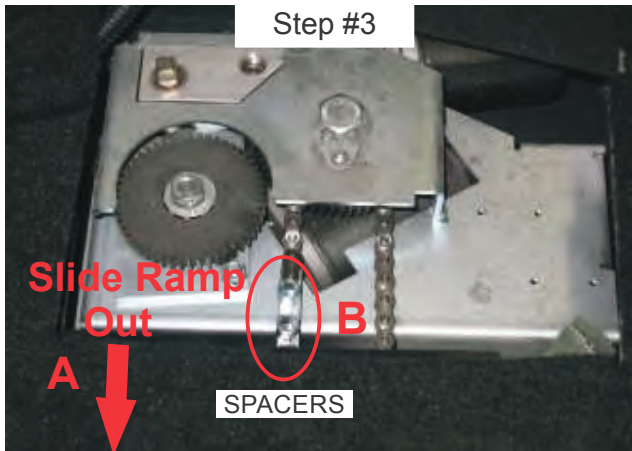


ITF Ramp Motor Removal



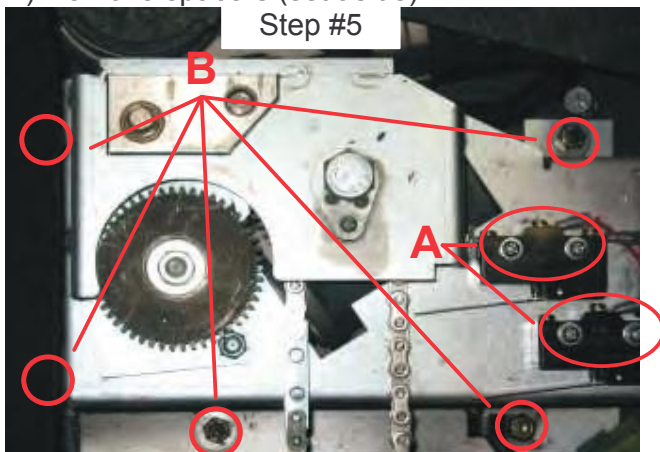
** With the ramp in and passenger slider door open.

- A) Remove the 4 bolts securing the ITF motor access plate using: **T27 torx bit**.



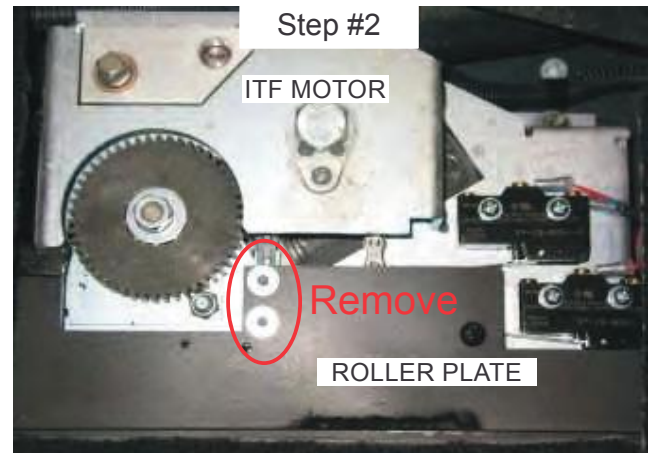
- A) Lift up on the roller plate and slide the ramp out slightly to gain access to the chain anchor.

- B) Remove spacers (set aside).

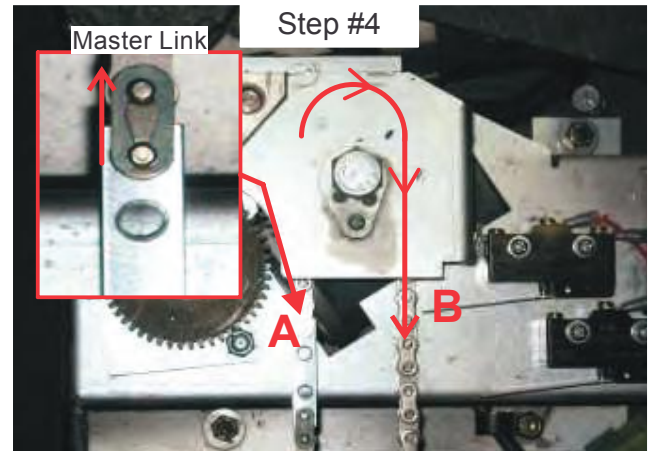


- A) Remove the 4 limit switch screws and remove switches from motor housing.

- B) Remove the (5) 1/4" mounting nuts for the motor using a 7/16" socket w/ extension.

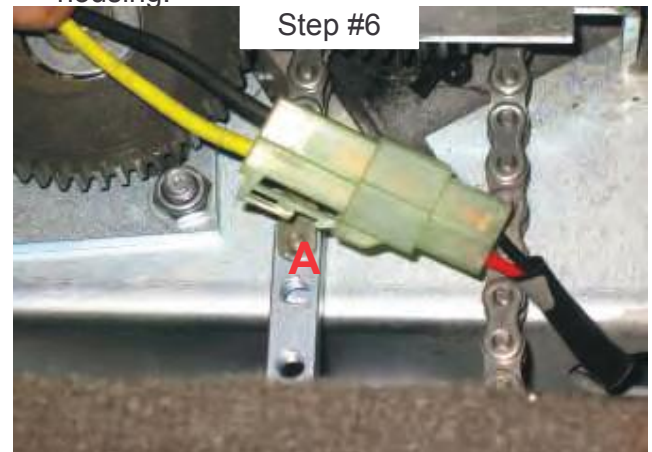


- A) Remove the 2 allen bolts that attach the roller plate to the chain anchor using a **5/32" allen bit**.



- A) Remove the master link closest to the gear, then disconnect the anchor from the chain.

- B) Pull the chain out of the motor housing.



- A) Unplug the connector for the motor and remove motor from van.

*Install new motor in reverse order.



FOLDING RAMP TROUBLESHOOTING

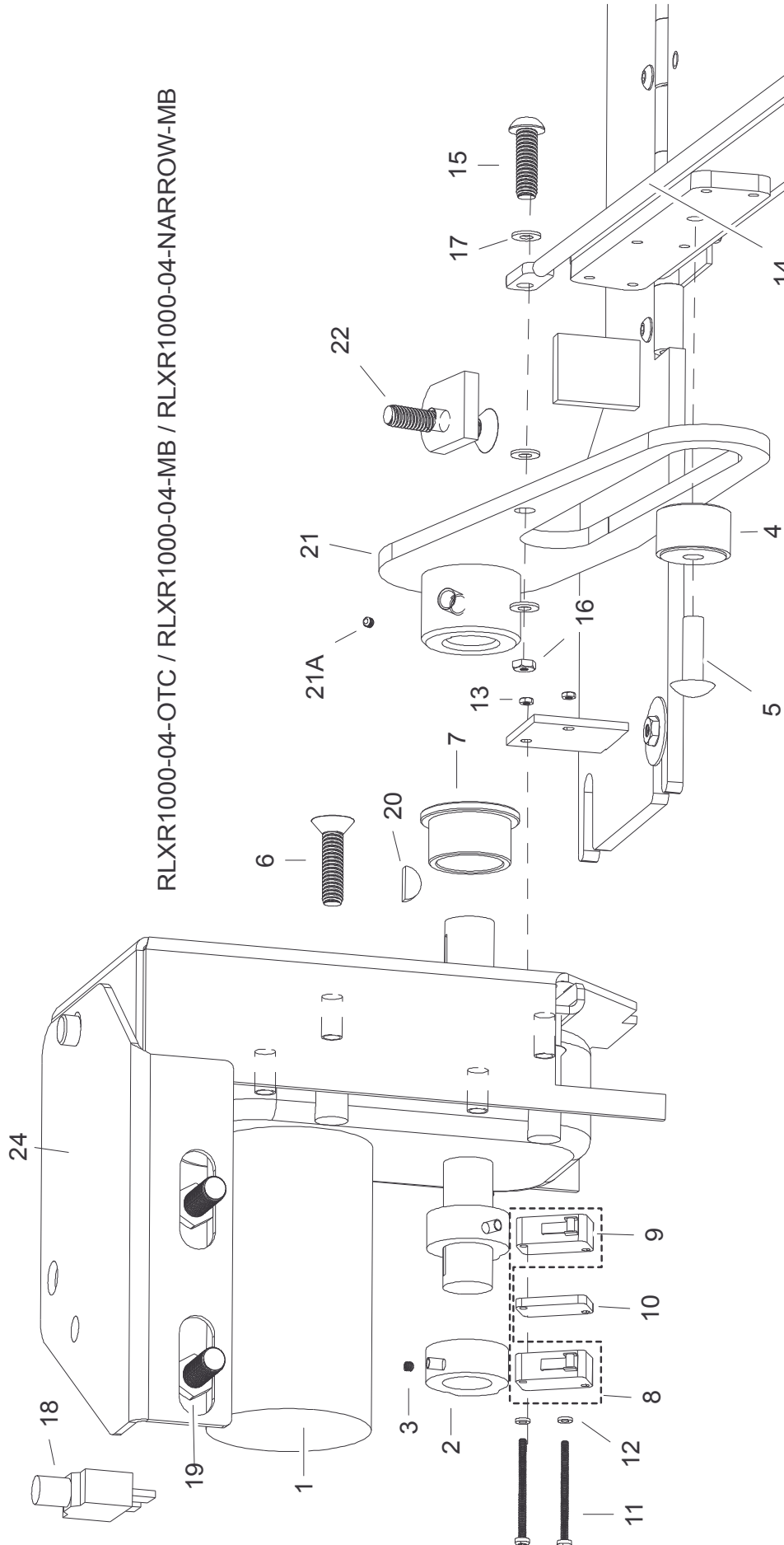
Note: Using the “Debug Mode” on the OTC board is a good resource to assist you in trouble shooting. Refer to the “One Touch System Interface Debugger” section and verify all the Inputs (limit switches) are functioning normally.

Symptom	Possible Cause	Remedy
Ramp will NOT DEPLOY after door opens automatically.	Ramp fuse or circuit breaker is blown.	Reset circuit breaker on top of ramp motor housing or check ramp fuse and replace if needed with a 30amp fuse.
	Door is not fully open.	Check the upper or lower door tracks for obstructions, ensure door opens freely and latches.
	Door open limit not detected -faulty door detector or wiring (For vans with Door detectors).	Replace door detector or trouble shoot & repair circuit. See OTC Wiring diagrams.
	Door open limit not detected - faulty door open limit switch or wiring. (For vans with door open limit switches).	Replace or adjust door open limit switch or trouble shoot & repair circuit. See OTC wiring diagrams.
	Ramp down limit switch may be activated or wiring is bad.	See limit switch adjustment and OTC wiring diagram.
	Bad ramp motor or wiring.	Check wiring or replace motor.
Ramp will NOT STOW automatically.	Ramp up limit switch maybe activated.	See limit switch adjustment and OTC wiring diagram.
	Ramp fuse or circuit breaker is blown.	Reset circuit breaker on top of ramp motor housing or check ramp fuse and replace if needed with a 30amp fuse.
	Bad ramp motor or wiring.	Check wiring or replace motor.
	Low voltage from the battery.	Start vehicle. Press OTC reset button and press Rollx Vans user button again.
Ramp will deploy into the door.	Door open limit switch is activated or wiring shorted to ground.	Replace or adjust door open limit switch or repair wiring.
	Faulty door detector or wiring is bad.	Replace door detector or trouble shoot & repair circuit. See OTC Wiring diagrams.
Ramp will STOP mid-cycle.	Obstacle is detected.	Clear obstruction and reset OTC system.
	Weak ramp motor.	Replace ramp motor.



FOLDING RAMP REPLACEMENT PARTS

RLXR1000-04-OTC / RLXR1000-04-MB / RLXR1000-04-NARROW-MB

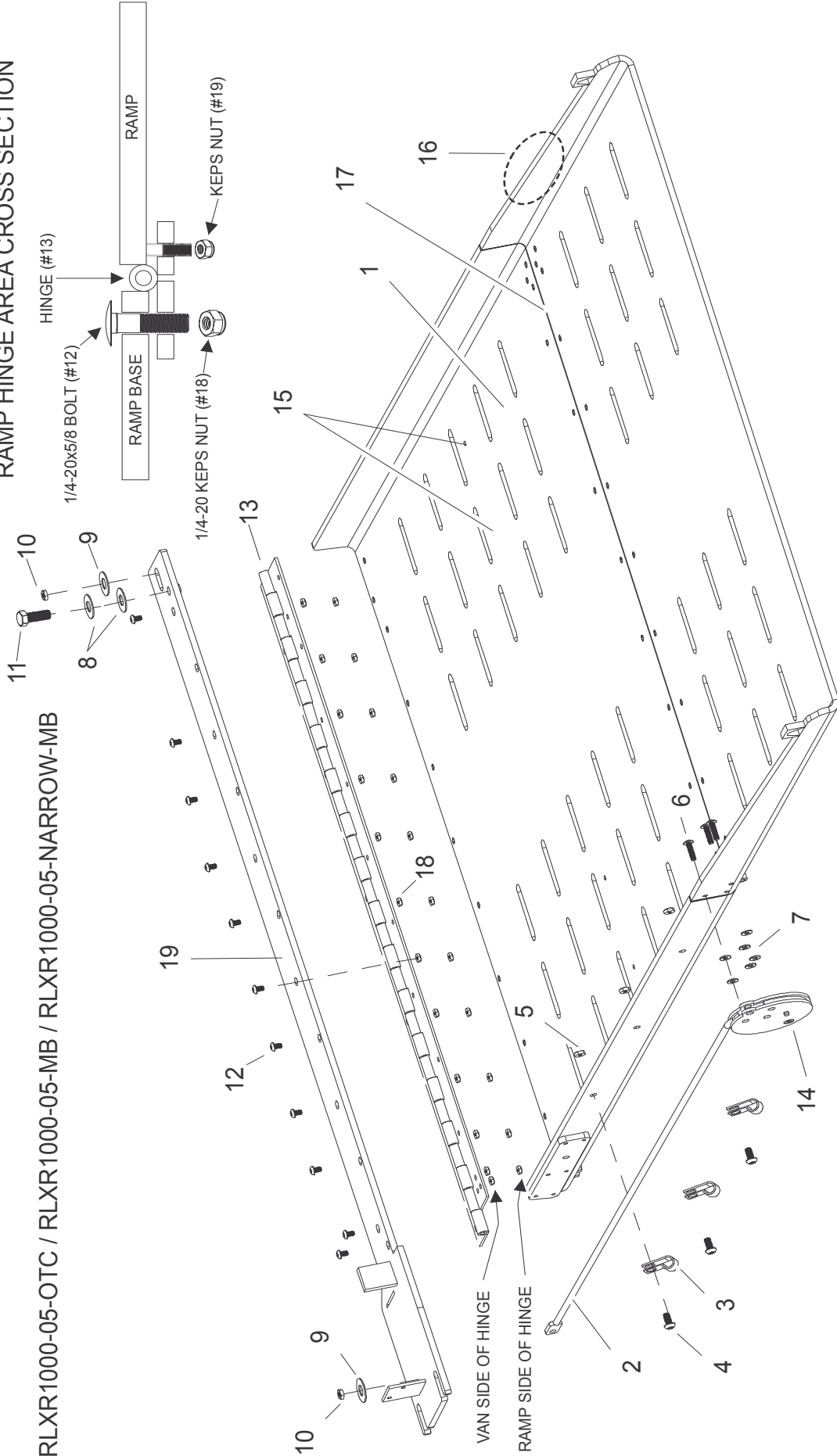


Item	Qty.	Description	Part #	Item	Qty.	Description	Part #
1	1	MOTOR RAMP (Does not include connector (OTC only))	K01325A350	13	2	4-40 S/S NYLON NUT	1170854
2	2	CAM FOR PICK UP ARM ALUM	RLXRP00CAM-ALUM	14	1	RAMP CABLE W/BALL SHANK,	RLXR1100
3	2	#8-32X1/4 CUP POINT SET SCREW	N/A	15	1	BHSCS 5/16-18 X 7/8	24070
4	1	ROLLER CROWNED YOKE	CY36L	16	1	5/16-18HX JAM Z	1137023
5	1	5/16-18 X 1-1/4 BHSCS	1124072	17	3	5/16-18 FLAT NYLON WASHERS	76062
6	4	5/16-18 X 1-1/4 FHSC	1124257	18	1	CB 10AMP RESETTABLE	CB-PM3-10
7	1	BEARING/BUSHING	SF-2432-8	19	2	HCS 3/8-24 X 1 YZ8	18634
8	1	RAMP LIMIT SWITCH ASM	03220-004	19A	2	3/8 HI-ALLOY LW YZ	1133893
9	2	SWITCH MINI SNAP ACTING	7779K62	19B	2	3/8 USS FW Z	1133008
10	1	SWITCH SPACER STD RAMP	RLX8POO-14	20	1	WOODRUFF KEY, 3/16X3/4 FLAT BOTTOM	N/A
11	2	S/S PPHMS 4-40X1 1/2	72498	21	1	PICK UP ARM (RAMP)	RLXR2005 (INCLUDES SET SCREW)
12	2	#4 sae 5/160d z 1lw	1133066	21A	1	1/4-20X3/8 CUP POINT SET SCREW	N/A
				22	1	5/16-18X1 3/4 FHSCS	1124259
				23	1	5/16-18X1 3/4 FHSCS*	1124259
				24	1	5/16-18HX JAM Z	1136204
				24	1	MOTOR COVER FOLD OUT RAMP	RLXR2011



FOLDING RAMP REPLACEMENT PARTS

RAMP HINGE AREA CROSS SECTION



RLXR1000-05-OTC / RLXR1000-05-MB / RLXR1000-05-NARROW-MB

Item	Qty.	Description	Part #	Item	Qty.	Description	Part #
1	1	RAMP STANDARD (RAMP NARROW)	RLXR4000 (RLXR4000N)	11	1	HCS 1/4-20X1/2 YZ8 QPA	0115001
2	1	RAMP CABLE W/BALL SHANK,	RLXR1100	12	12	1/4-20X5/8 SS BUTTON HEAD CAP SCREW	10929-02786
3	3	CLAMP INSULATED 3/8"	8863T13	13	1	HINGE, RAMP FOLDING W/ BOLTS	RLXR4006
4	3	1/4-20 X 1/2 BHSCS	1124049	14	1	CABLE GUIDE (ROUND DISC)	RLXR1025
5	3	1/4-20 NTE JAM NYLOK	1137020	15	4	RIVETS*	97517A130
6	3	10-32 X 3/4 BHSCS	1124042	15	4	#4 sae 5/16od z f/w	1133066
7	6	#10 SAE F/W Z	1133074	15	1	RUBBER BULB SEAL BACK FOAM*	NX504B1
8	2	1/4 HI-ALLOY LW YZ	1133891	16	0.4	ANTI-RATTLE RUBBER URETH FOR (Motor Bar Only)*	27036
9	2	3/8 USS F/W Z	1133008	17	1	HINGE UPPER RAMP FO PAINTED	RLXR1007
10	2	3/8-16 YZ8 NE NYLOCK	1137185	18	12	1/4-20 KEPS NUT	1137410
				19	1	Ramp Base Weldment Assembly	RLXR4003
							* Not Shown



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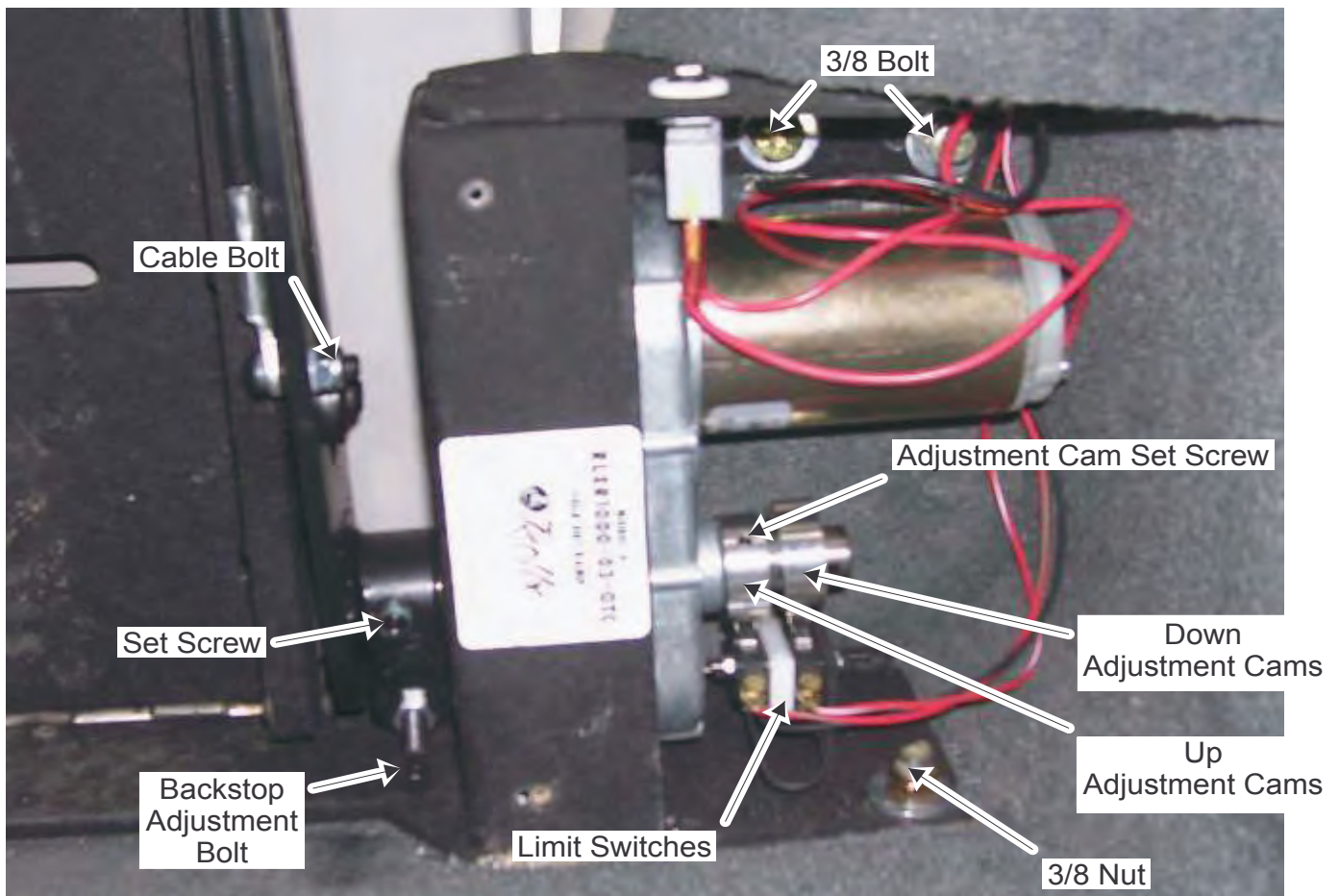
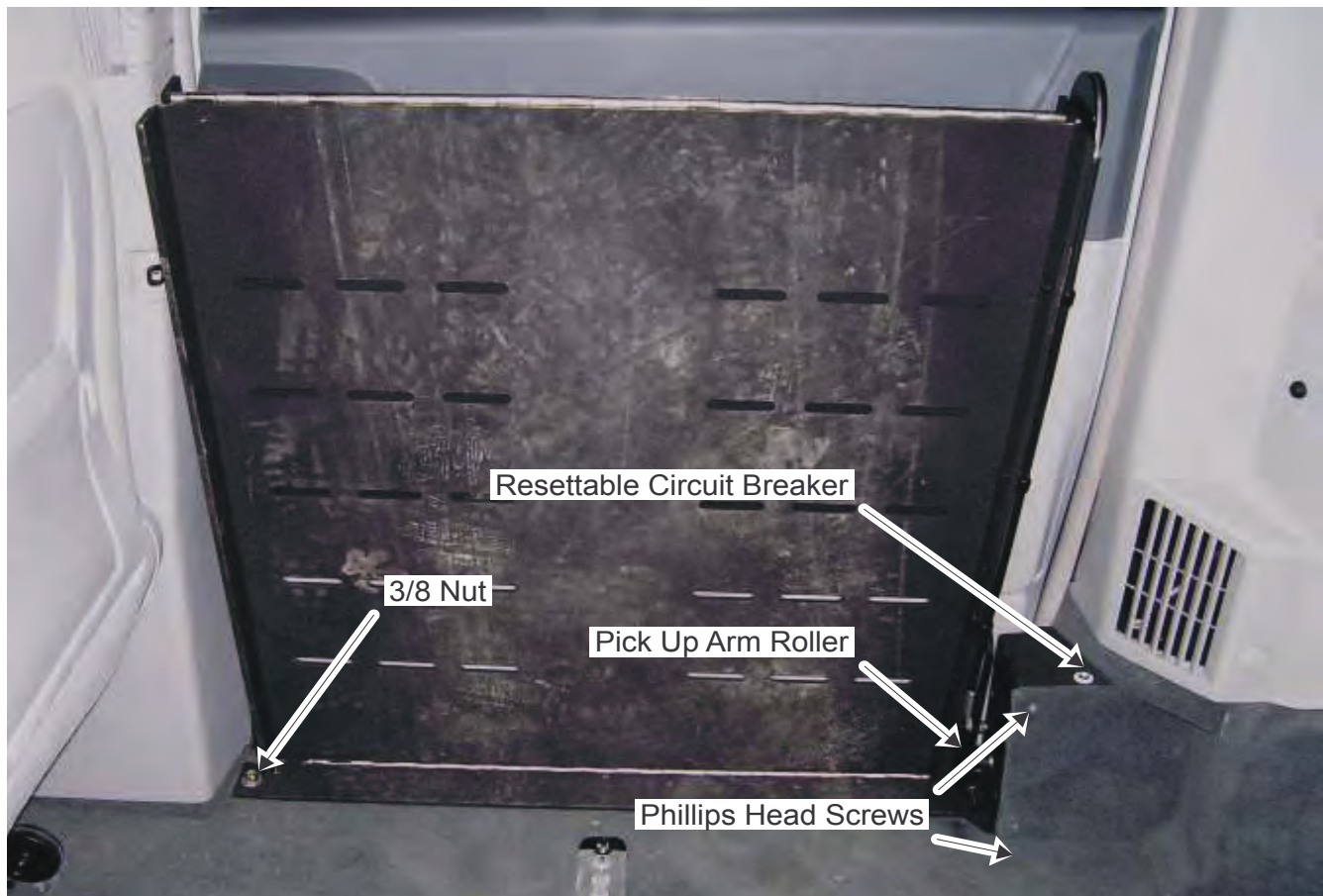
Folding Ramp Motor Install (steps 1-19) Ramp Removal Instructions (steps 1-4 + 15-19)

1. Remove carpeted motor panel. This is held on by two Phillip head screws.
2. Disconnect wires going to limit switches and motor.
3. Unbolt ramp. There are two bolts (3/8) that go into the side of the van above ramp motor and two nuts (3/8) on the floor of the van-one nut is by the motor and one nut is by b-pillar.
4. Remove ramp from van.
5. Extend ramp so it is laying flat.
6. Remove roller from pick up arm. Also, remove cable bolt.
7. Remove set screw from pick up arm. Then insert 5/16 bolt into pick up arm to pull pick up arm off of motor shaft. If this does not work, cut motor shaft with a saw and punch out scrap piece from pick up arm.
8. Remove limit switches off of ramp.
9. Take out the four Allen head bolts (3/16) holding ramp motor. Remove motor.
10. Insert new motor. Reinstall the four Allen head screws with lock tight.
11. Reinstall limit switches.
12. Remove cams off of old motor and install on the new ramp motor. You will need to adjust these cams at step 16.
13. Reinstall pick up arm. Line up pick up arm and key way. Ensure Woodruff key is all the way inserted into the pick up arm.
14. Reinstall set screw (3/16) with lock tight.
15. Reinstall ramp in the van. Secure ramp with original hardware.
16. Install wiring for limit switches and motor.
17. Adjust ramp cams. Refer to Ramp Adjustment Instructions.
18. Test ramp for proper limit switch adjustment.
19. Reinstall carpeted motor cover.

Folding Ramp Adjustment Process

1. Bring folding ramp into the stow position so it resting in the van where you want it.
2. Remove carpeted motor panel. This is held on by two Phillip head screws.
3. Locate Adjustment Cam Set Screws and loosen.
4. Rotate the Up Limit Cam until it activates the Up Limit Switch and tighten set screw.
5. Push ramp out slowly and rest on something that is 6 inches off the ground as shown below.
6. Rotate Down Limit Cam until it activates the Down Limit Switch and tighten set screw.
7. Test ramp for proper limit switch adjustment and reinstall carpeted motor cover.







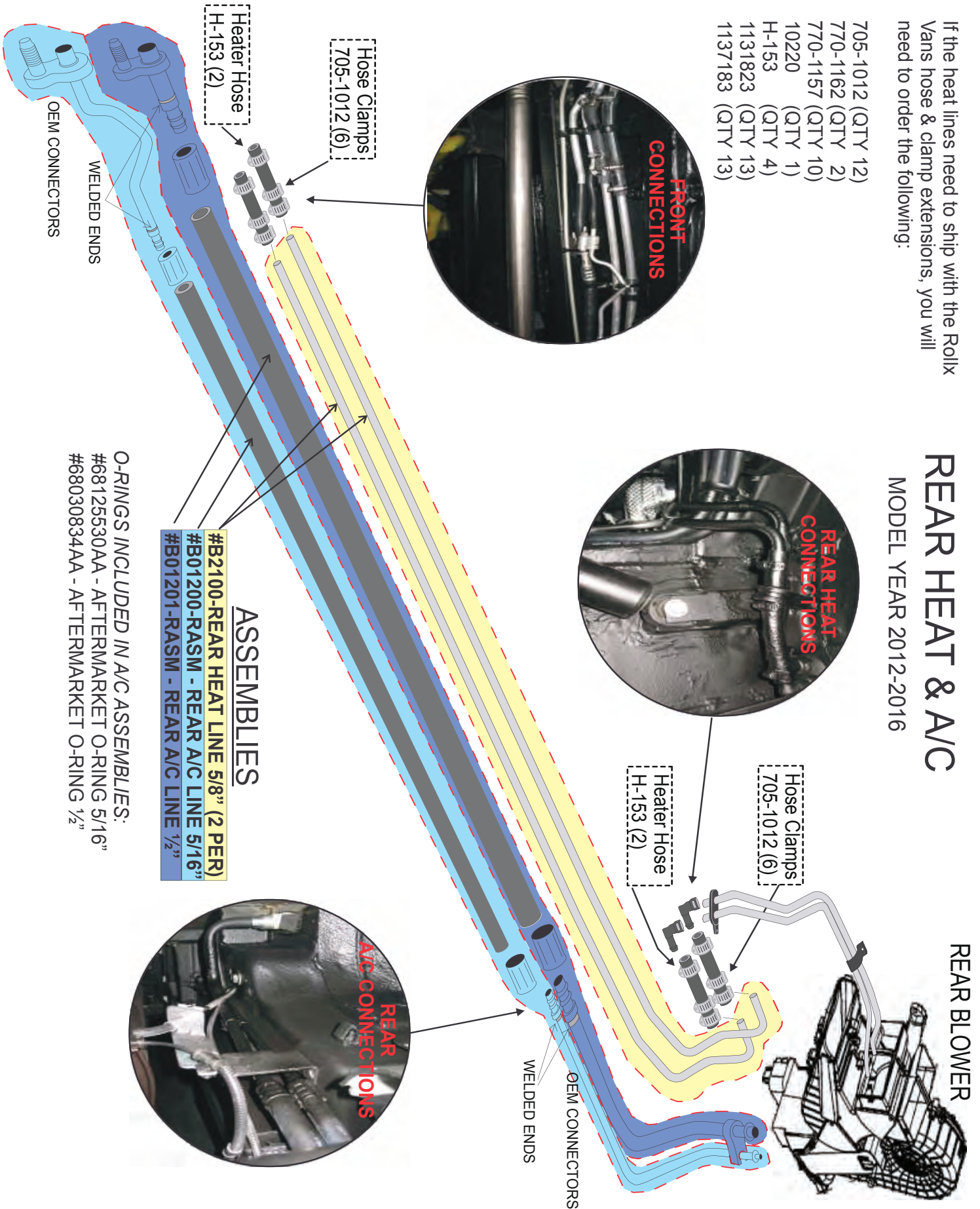
If the heat lines need to ship with the Rollix Vans hose & clamp extensions, you will need to order the following:

705-1012 (QTY 12)
770-1162 (QTY 2)
770-1157 (QTY 10)
10220 (QTY 1)
H-153 (QTY 4)
1131823 (QTY 13)
1137183 (QTY 13)

REAR HEAT & A/C

MODEL YEAR 2012-2016

REAR BLOWER





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REMOTE SYSTEM TROUBLESHOOTING

*** If remote does not work first try to operate door and ramp from any interior Rollx Vans user button. If interior Rollx Vans user button operates normally, see below for remote system troubleshooting**

Symptom	Possible Cause	Remedy
Door does not open when One Touch remote is pressed.	Receiver out of range.	Try remote within 10 feet of van.
	Overhead on/off switch is turned to the OFF position.	Turn switch to ON position.
	Remote batteries are dead.	Replace batteries.
Neither One Touch remote works.	Blown fuse.	Locate fuse under glove box and check / replace fuse.
	Receiver malfunction.	Replace receiver.
	Lost Programming.	Reprogram (See OTC remote system).

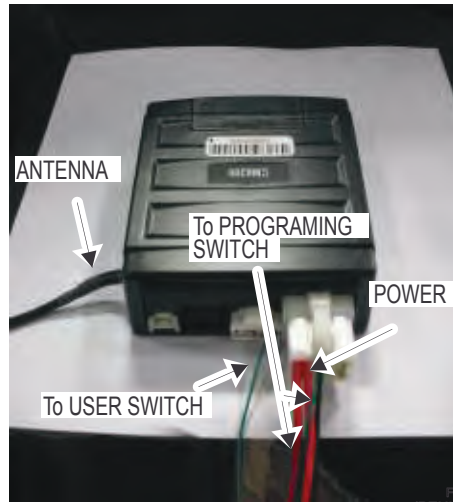


Compustar 6200

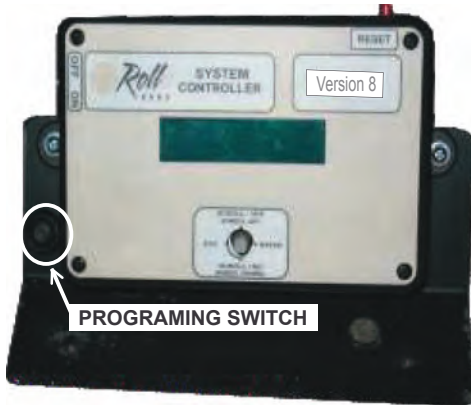
OTC Remote Receiver
(Behind Rear Passenger Quarter
Panel Above Rear Heat Unit)



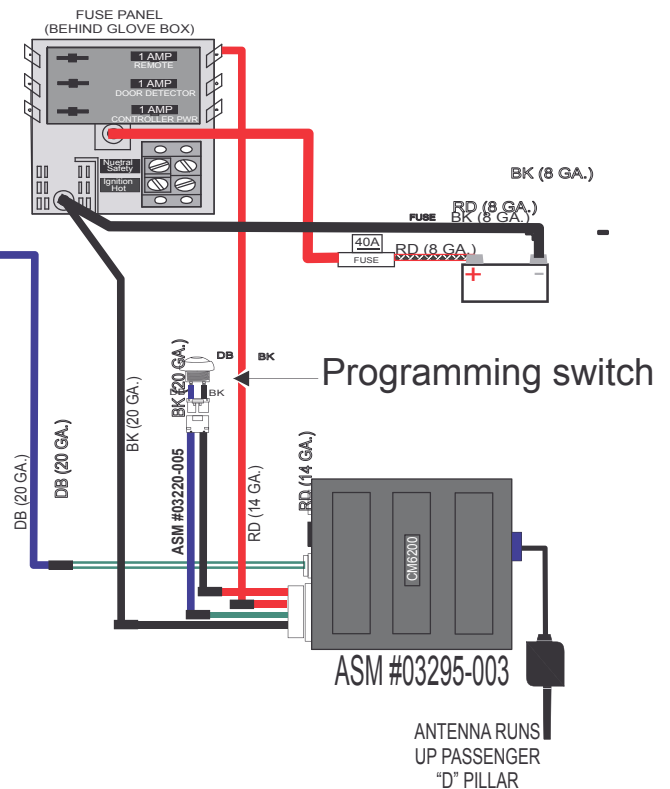
OTC Remote Receiver
(Rear View)



OTC Remote Transmitter



To Rollx Vans user
switches



Programming the Rollx Vans OTC Remote

- *Shut off the OTC controller
- *Activate the programming mode by pushing the button on the left side of the OTC controller (PROGRAMMING SWITCH) 5 times within 7 seconds.
- * Within 2 seconds after pushing the button 5 times, press the single remote button for .5 Seconds. Wait 30 seconds and press the remote to operate the system.
- *Repeat the sequence if programming an additional remote.

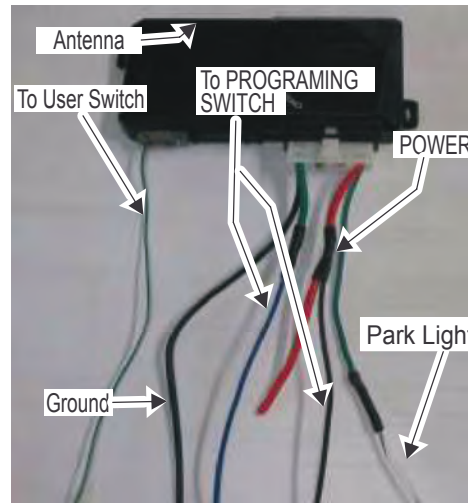


Compustar 7200 with Flashing Lights

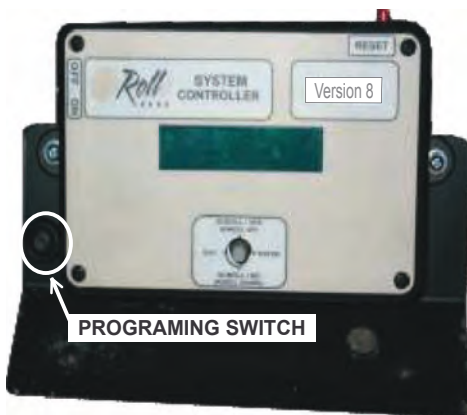
OTC Remote Receiver
(Behind Rear Passenger Quarter
Panel Above Rear Heat Unit)



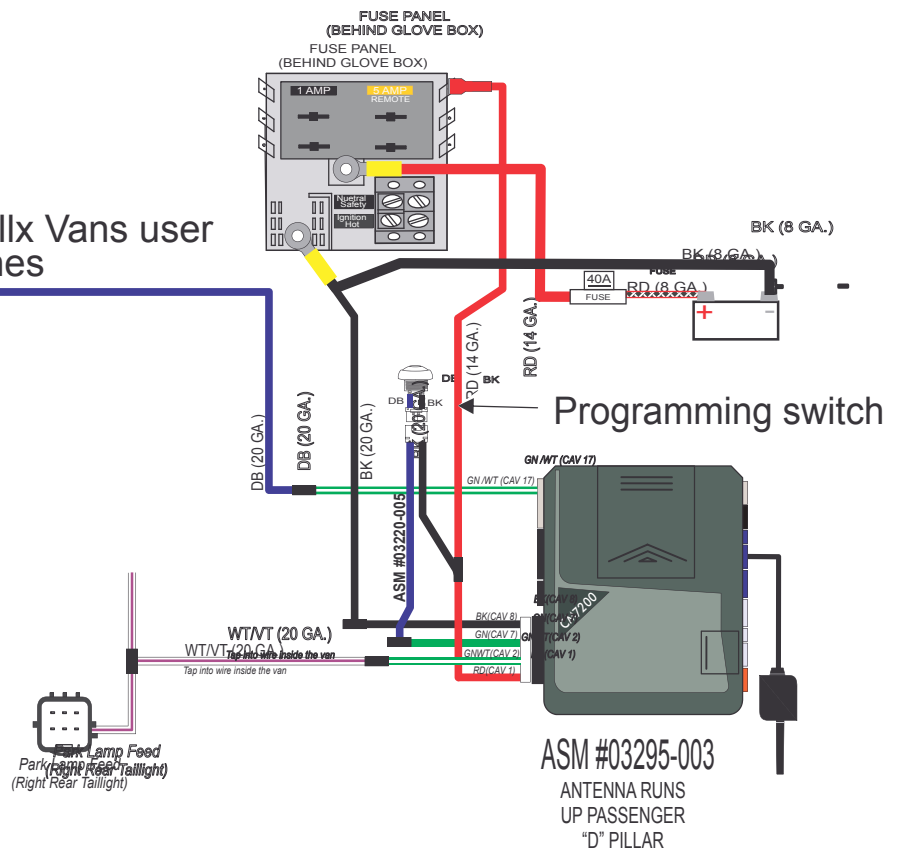
OTC Remote Receiver
(Rear View)



OTC Remote Transmitter



To Rollx Vans user switches

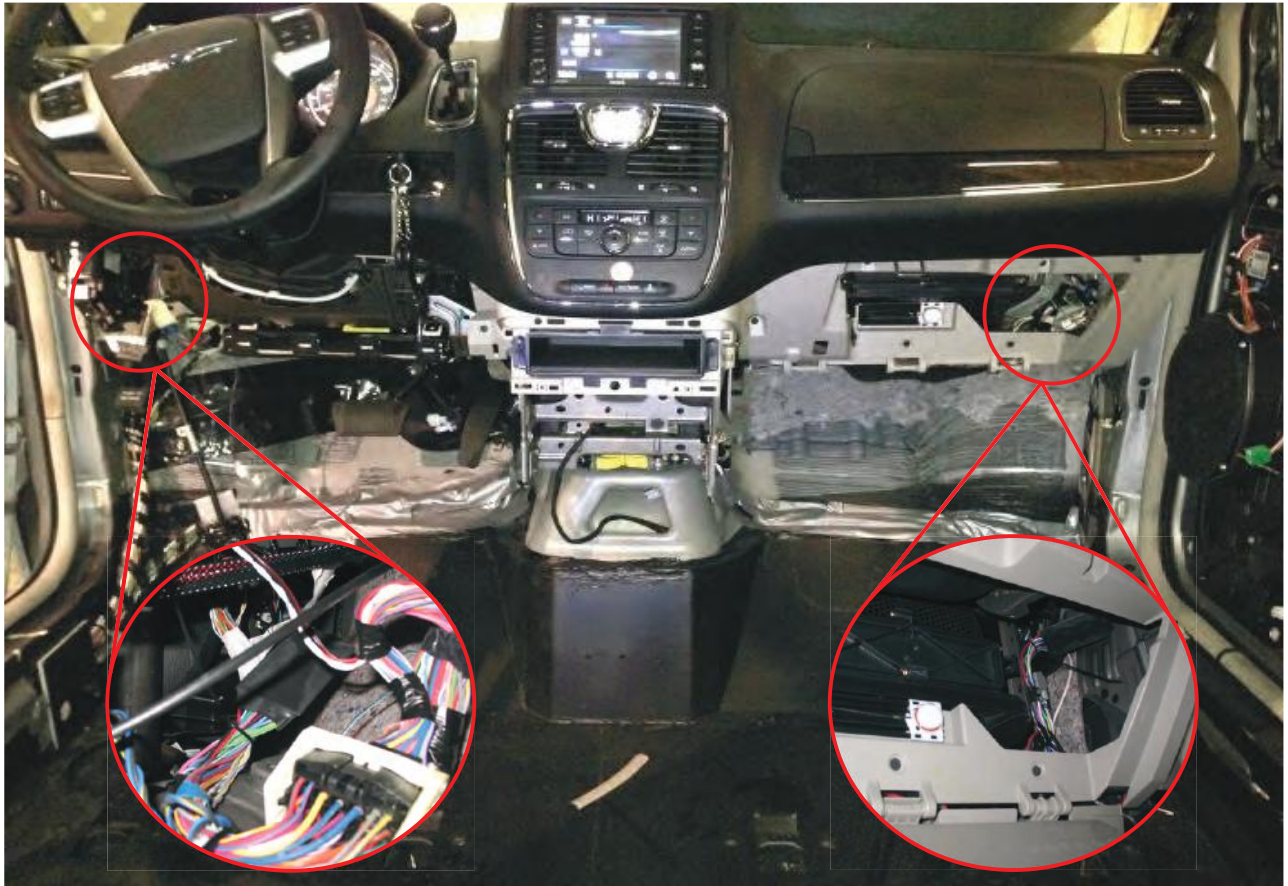


Programming the Rollx Vans OTC Remote

- *Shut off the OTC controller.
- *Activate the programming mode by pushing the button on the left side of the OTC controller (PROGRAMMING SWITCH) 5 times within 7 seconds.
- * Within 2 seconds after pushing the button 5 times, press the single remote button for .5 Seconds. Wait 30 seconds and press the remote to operate the system.



Seat Detector Location



Seat Detector Description

The Rollx Vans Seat Detector essentially simulates the functionality of a driver or passenger front seat in the event where the seats are disconnected from the van (FIG A & B).

The simulated functions are:

- | | |
|----------------------------------|-------------------------------|
| <i>Seat Belt Buckle Switches</i> | <i>*Seat Position Sensors</i> |
| <i>*Seat Belt Retractors</i> | <i>*Seat Thorax</i> |
| <i>*Active HeadRests</i> | <i>*Occupant Detection</i> |

FIG A



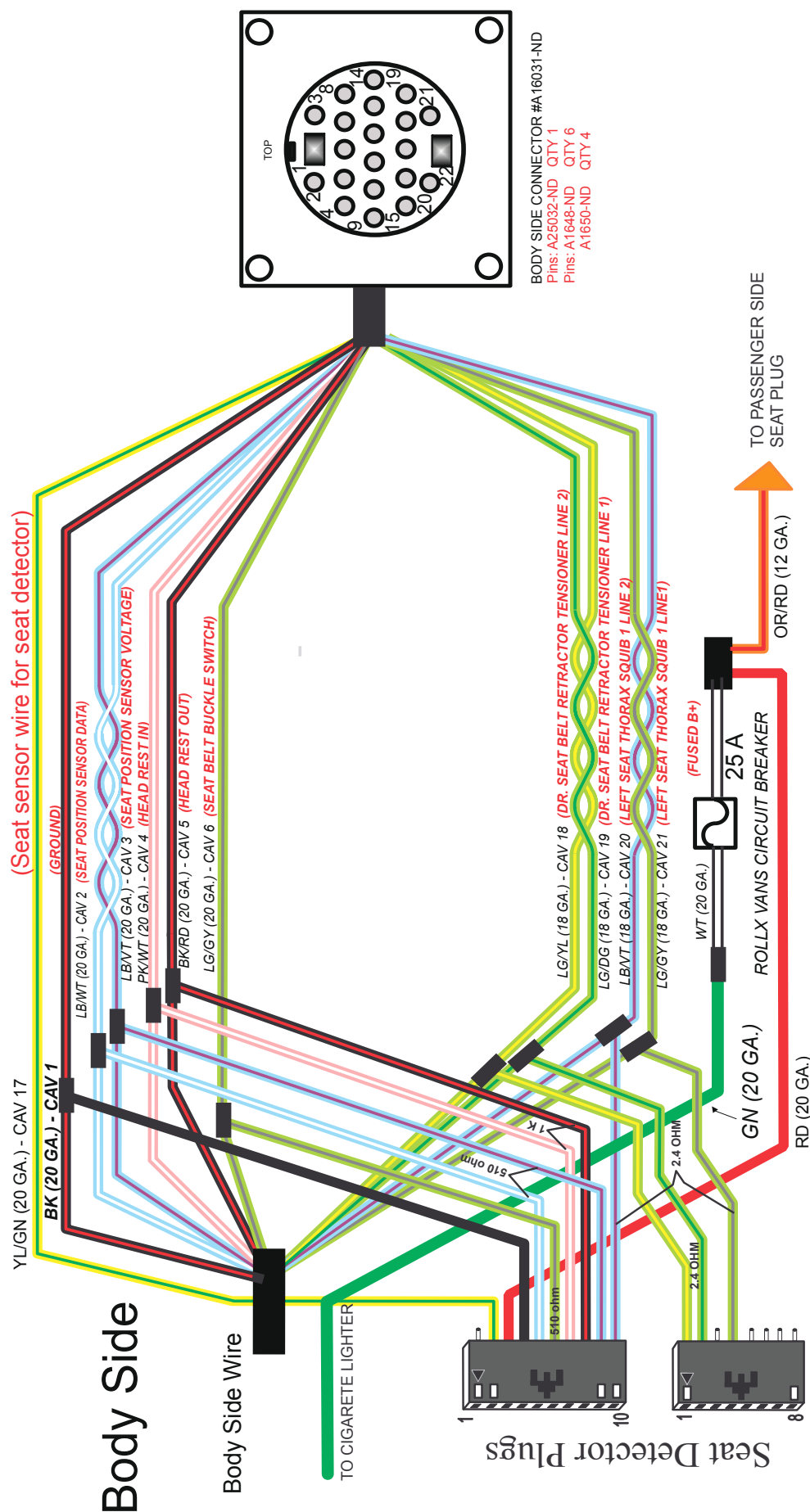
FIG B





Updated on 6/19/2015

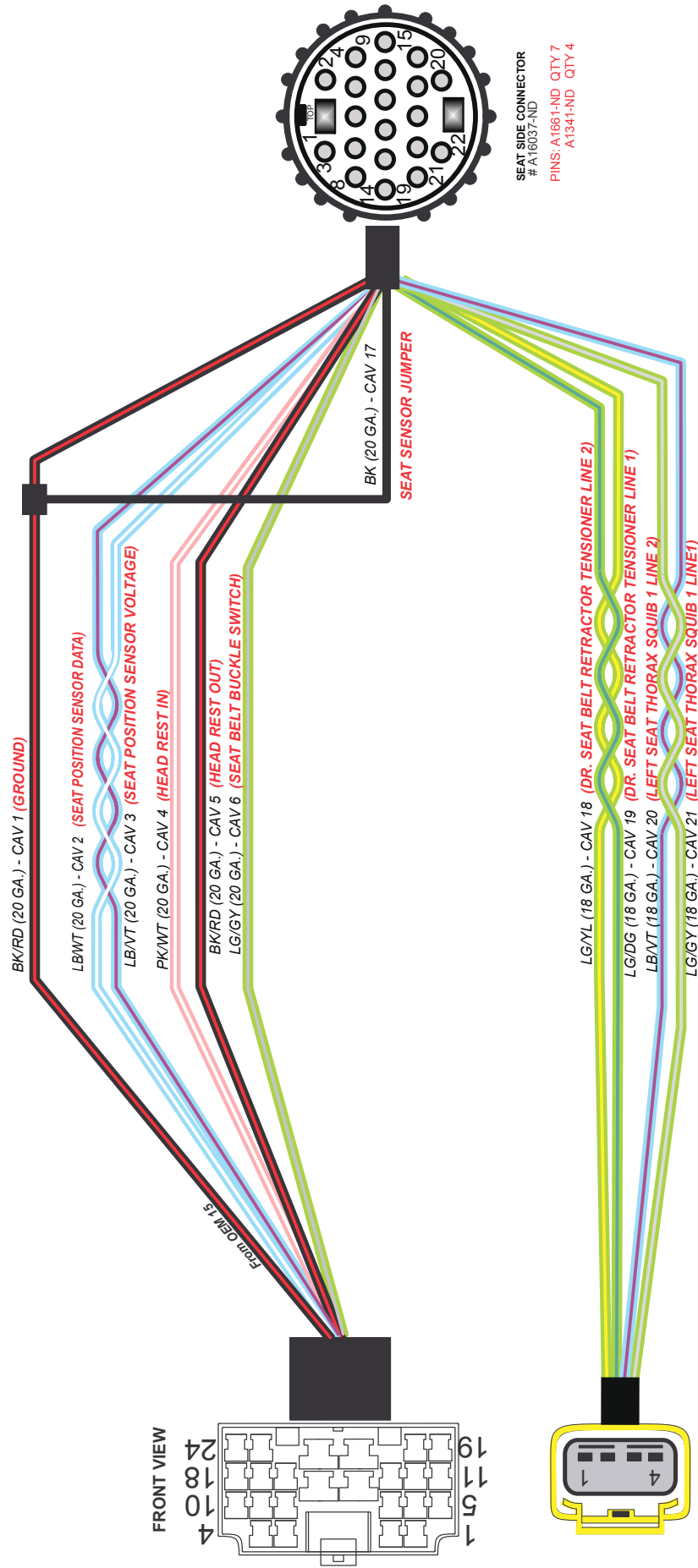
2011-2016 Chrysler Minivan

C376/I405 Driver Side with MANUAL SEAT With Seat Detector
BODY SIDE



Updated on 9/18/2015

2011-2016 Chrysler Minivan C376/I405 Driver Seat with **MANUAL SEAT** - With Seat Detector **SEAT SIDE**

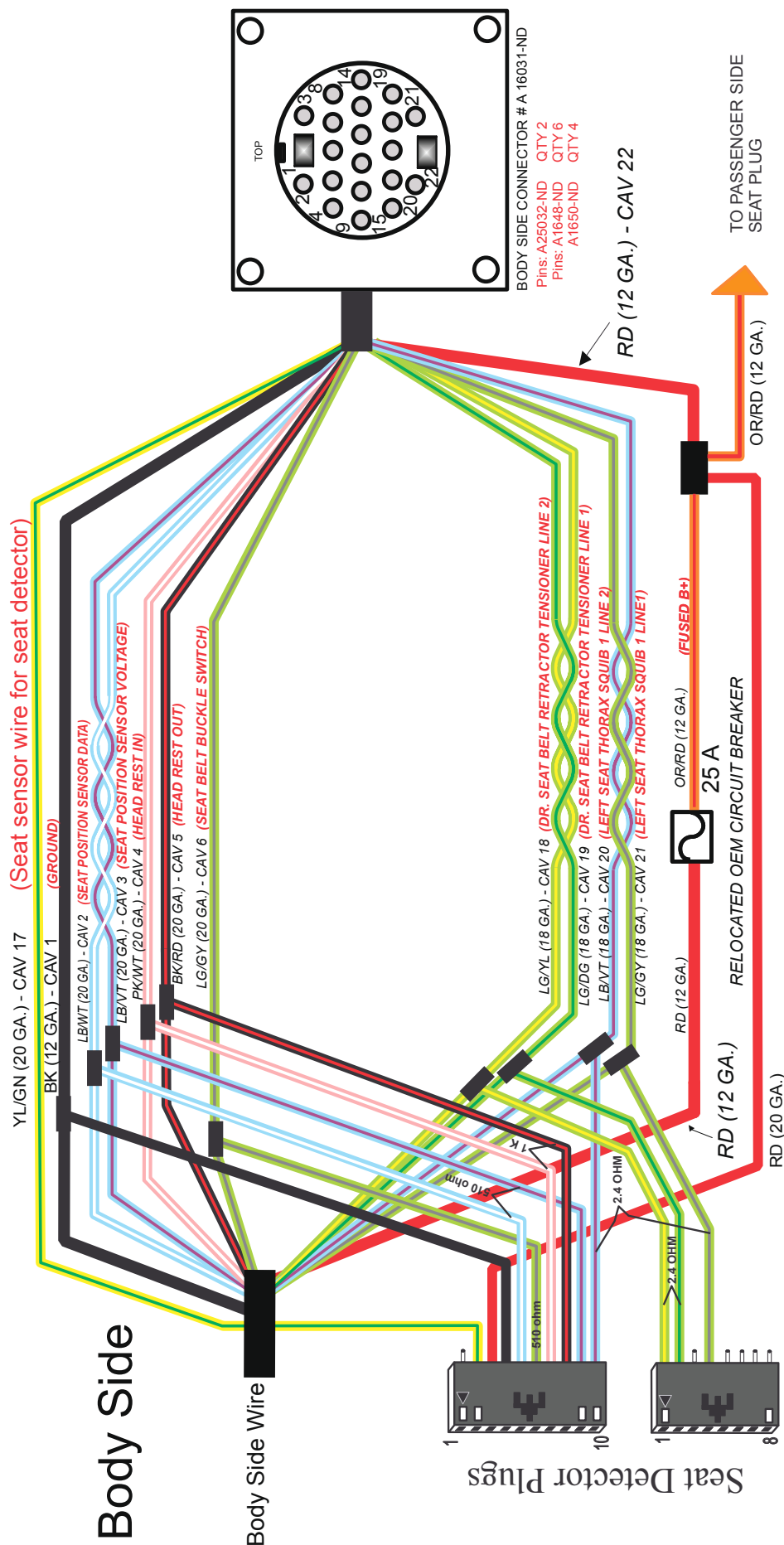


Updated on 6/19/2015

2011-2016 Chrysler Minivan

C376/I405 Driver Side with POWER ONLY - With Seat Detector

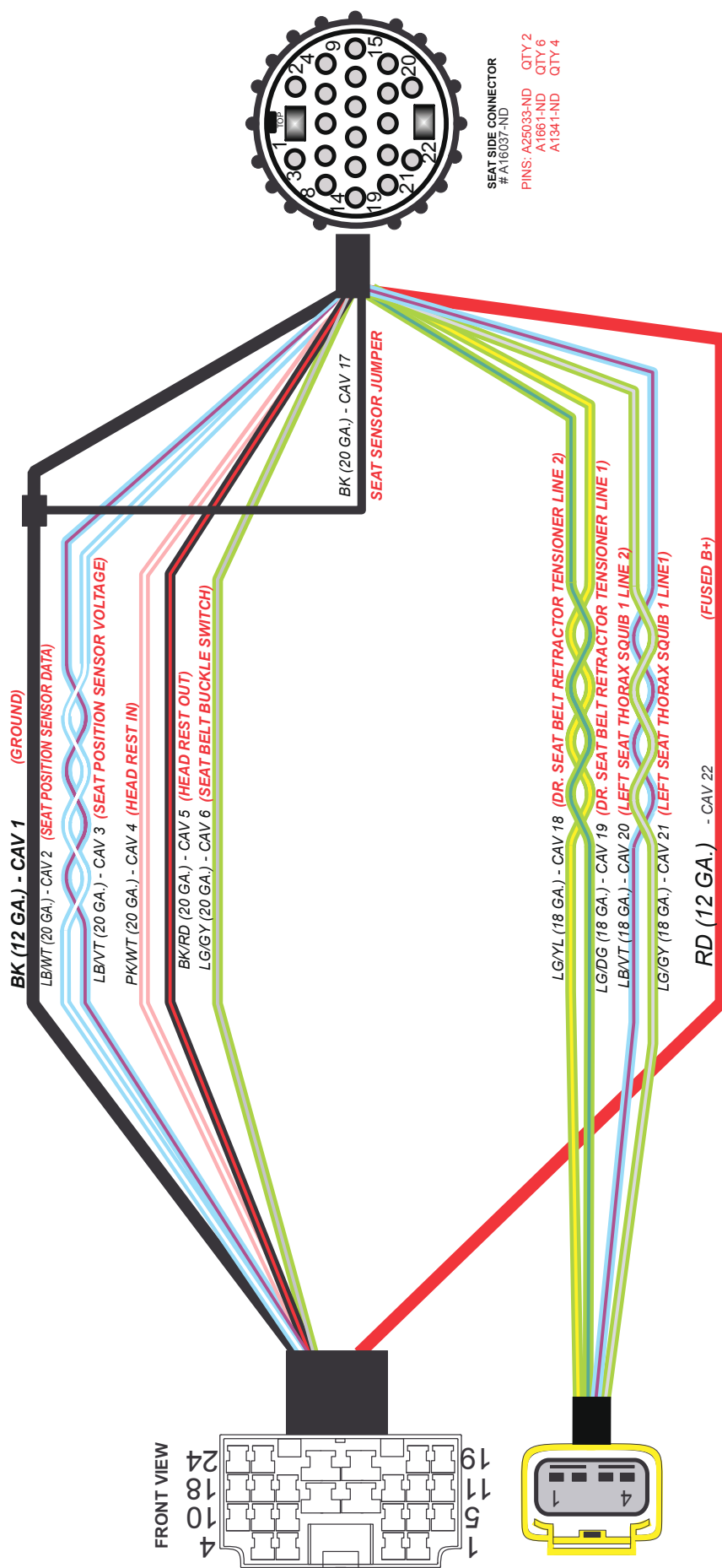
BODY SIDE



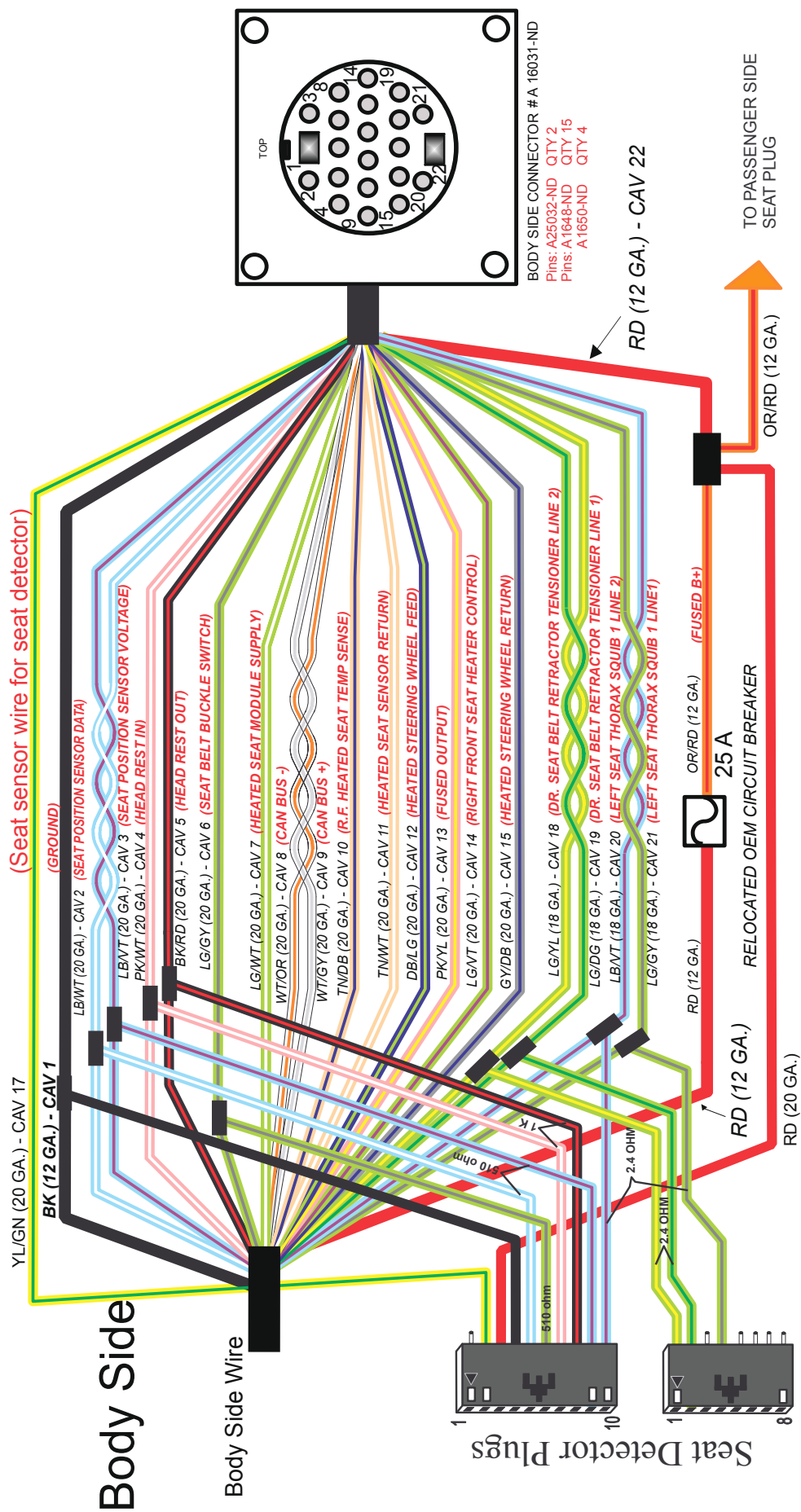


Updated on 9/18/2015

2011-2016 Chrysler Minivan

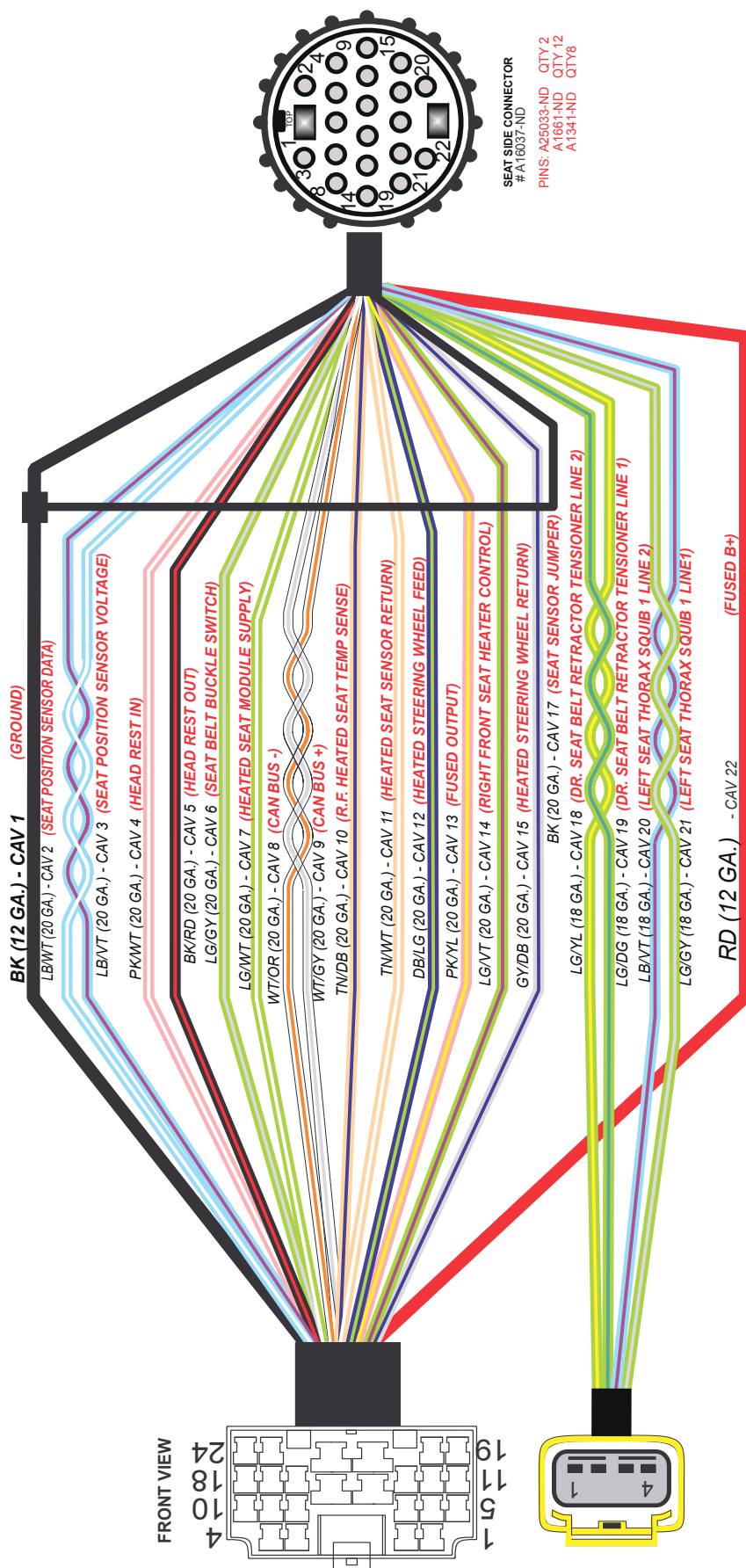
C376/I405 Driver Seat with **POWER ONLY** - With Seat Detector
SEAT SIDE

Updated on 6/19/2015



Updated on 9/18/2015

2011-2016 Chrysler Minivan C376/I405 Driver Seat with POWER AND HEAT - With Seat Detector SEAT SIDE



NOTE: OEM wires that are eliminated/ do not run through the harness:

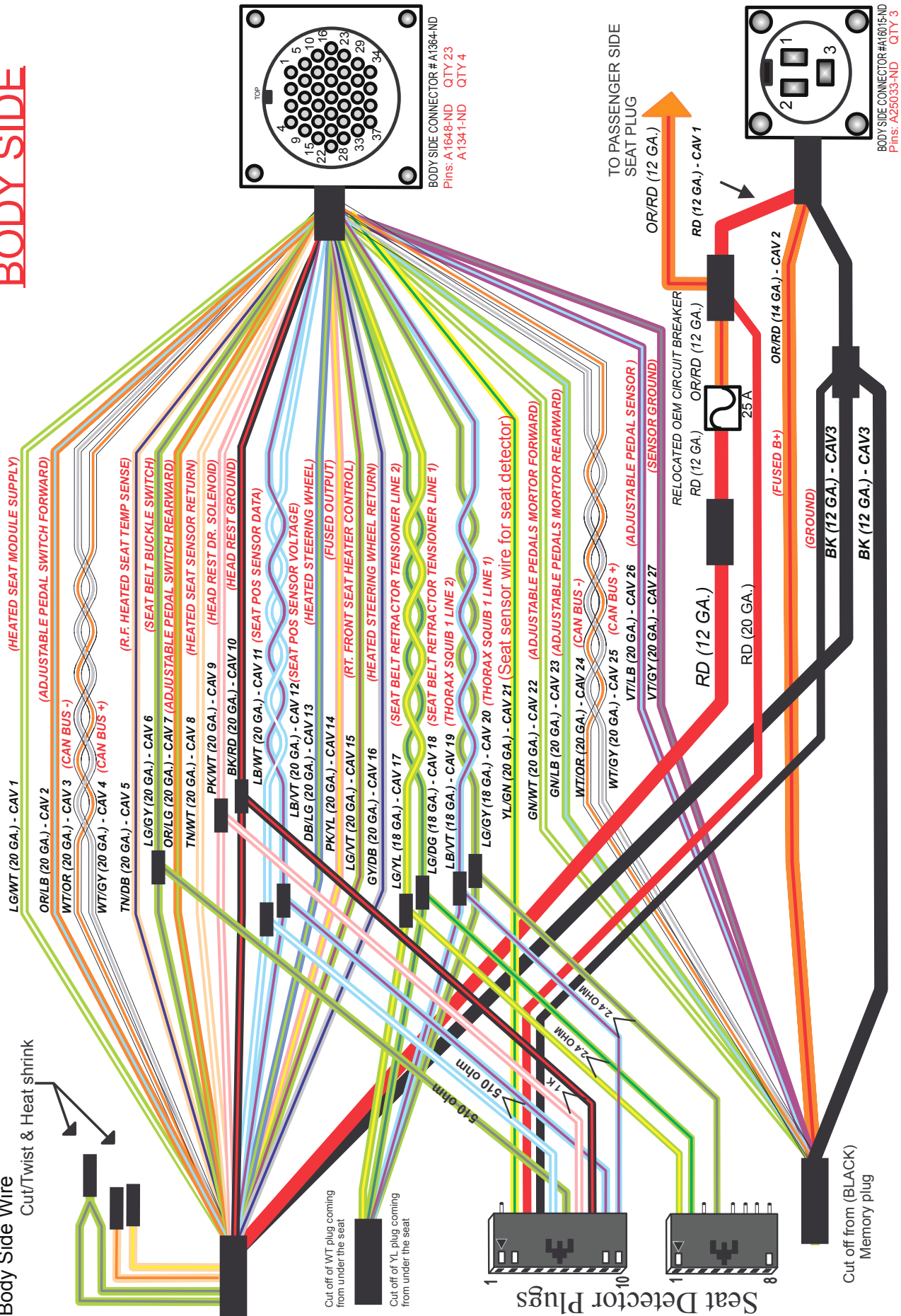
- OEM CAV 4 (LG/GY)
- OEM CAV 13 (TN/OR)
- OEM CAV 14 (OR/RD)
- OEM CAV 18 (TN/YL)
- OEM CAV 19 (LG/GY)

I405 Drivers Side with POWER & HEAT & MEMORY With Seat Detector

Body Side Wire

Cut/Twist & Heat shrink

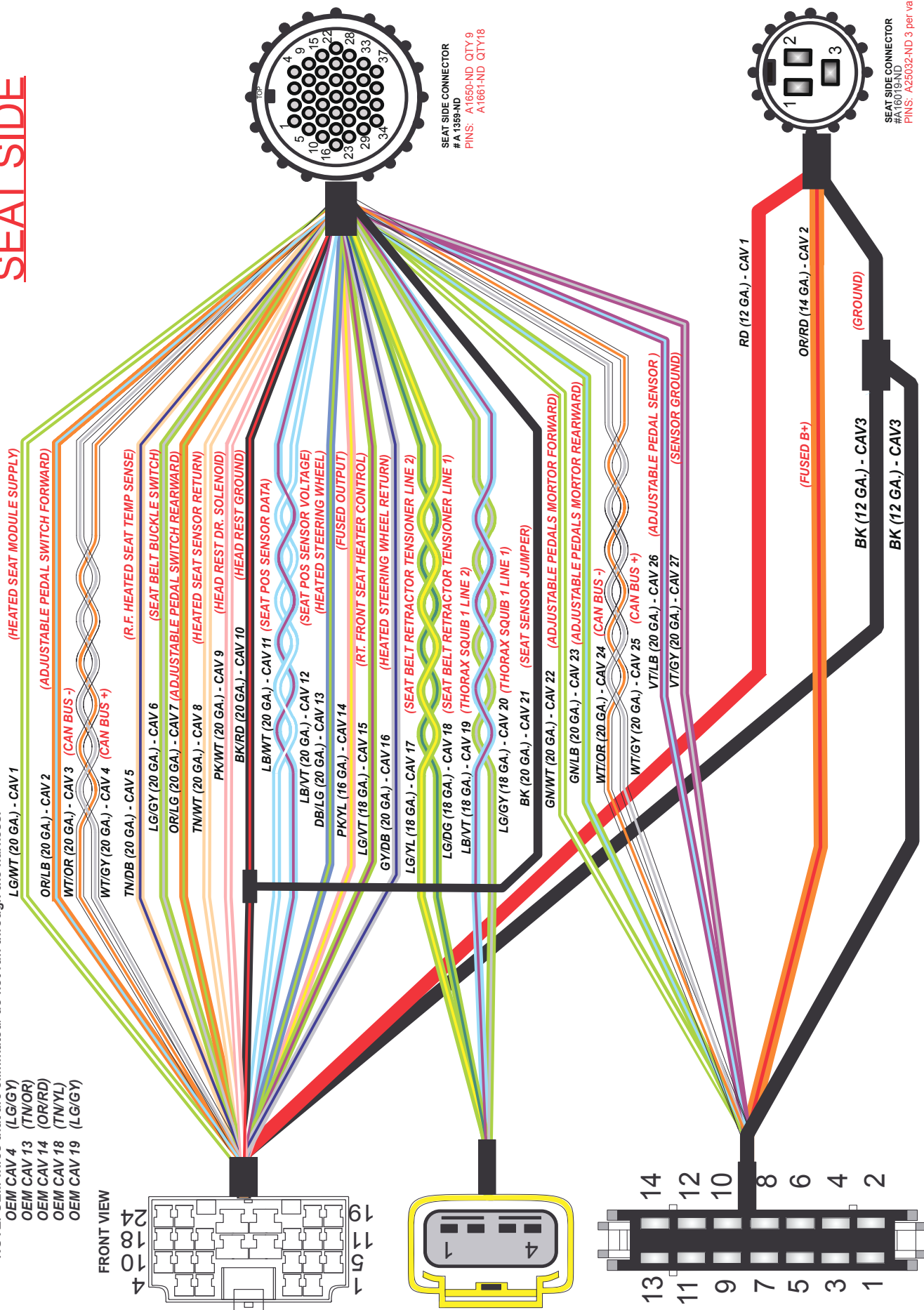
BODY SIDE



I405 Drivers Seat with **POWER & HEAT- & MEMORY** With Seat Detector

NOTE: OEM wires that are eliminated/ do not run through the harness:

OEM CAV 4 (LG/GY)
 OEM CAV 13 (TN/OR)
 OEM CAV 14 (OR/RD)
 OEM CAV 18 (TN/YL)
 OEM CAV 19 (LG/GY)

SEAT SIDE

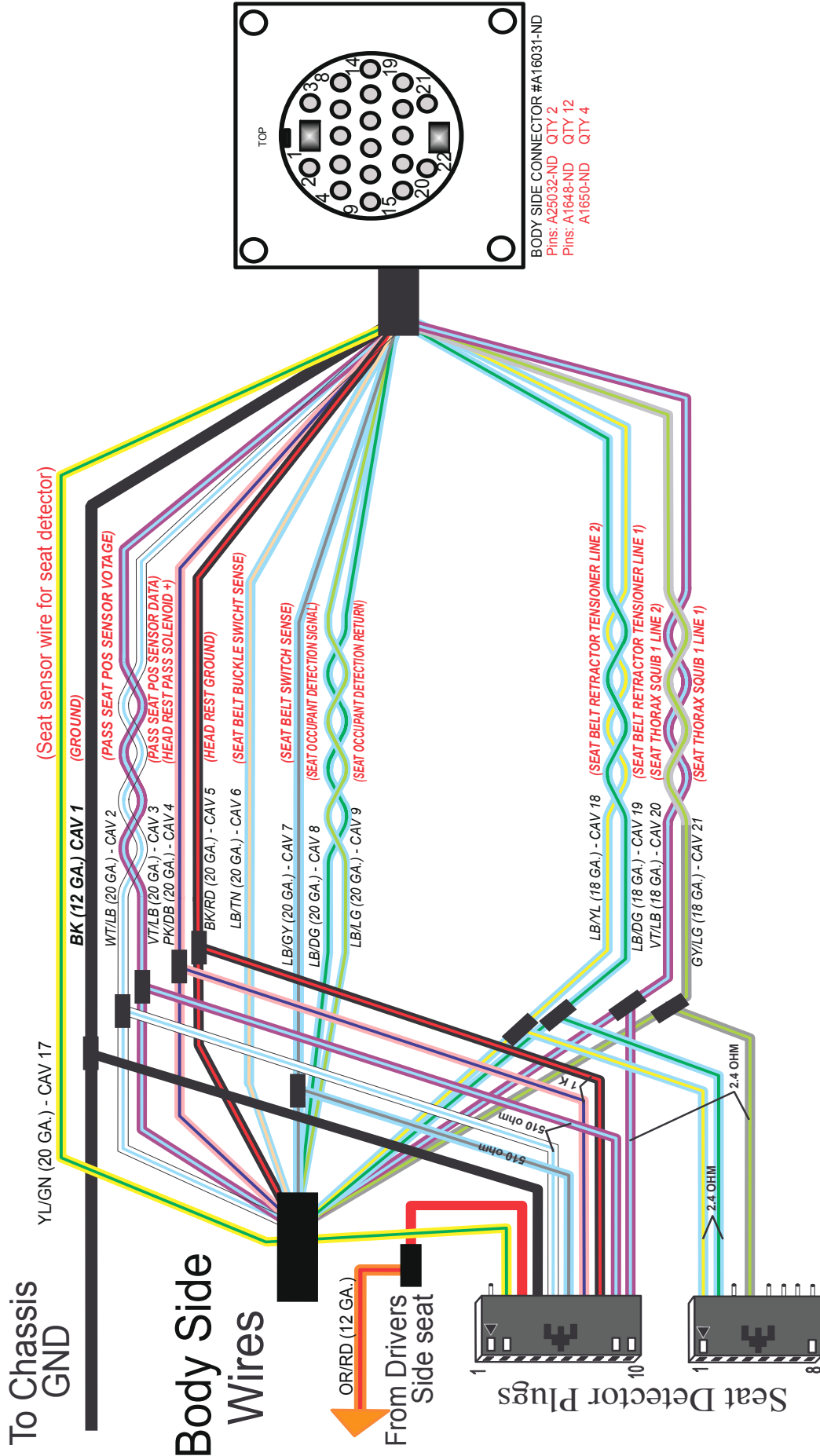
Updated on 6/19/2015

2011-2012 Chrysler Minivan

C378 Passenger Side with **MANUAL SEAT** With Seat Detector

BODY SIDE

(NO OCCUPANT DETECTION CIRCUIT)

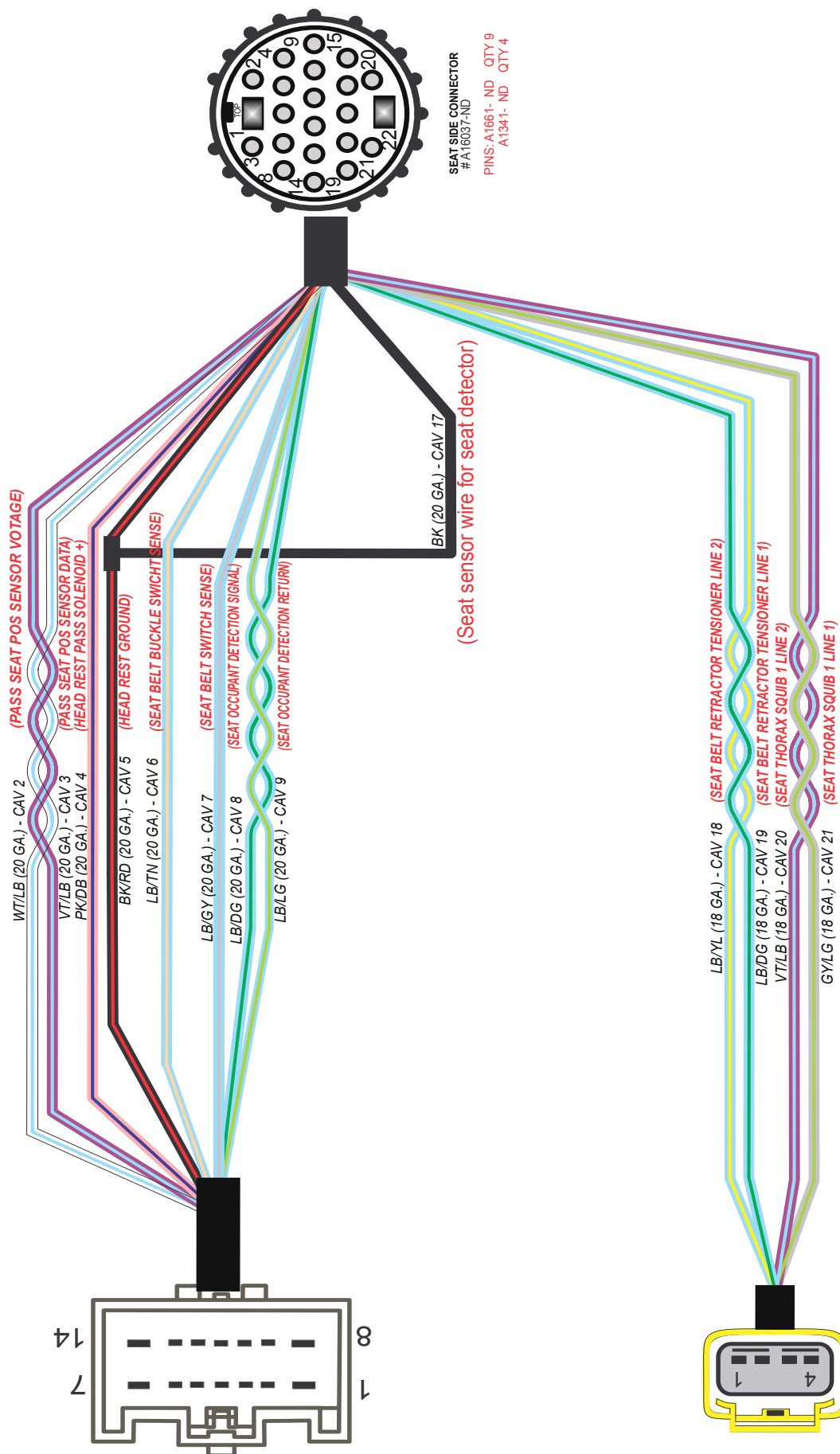




Updated on 6/3/2014

2011-2012 Chrysler Minivan

C378 Passenger Seat with **MANUAL** - With Seat Detector **SEAT SIDE**





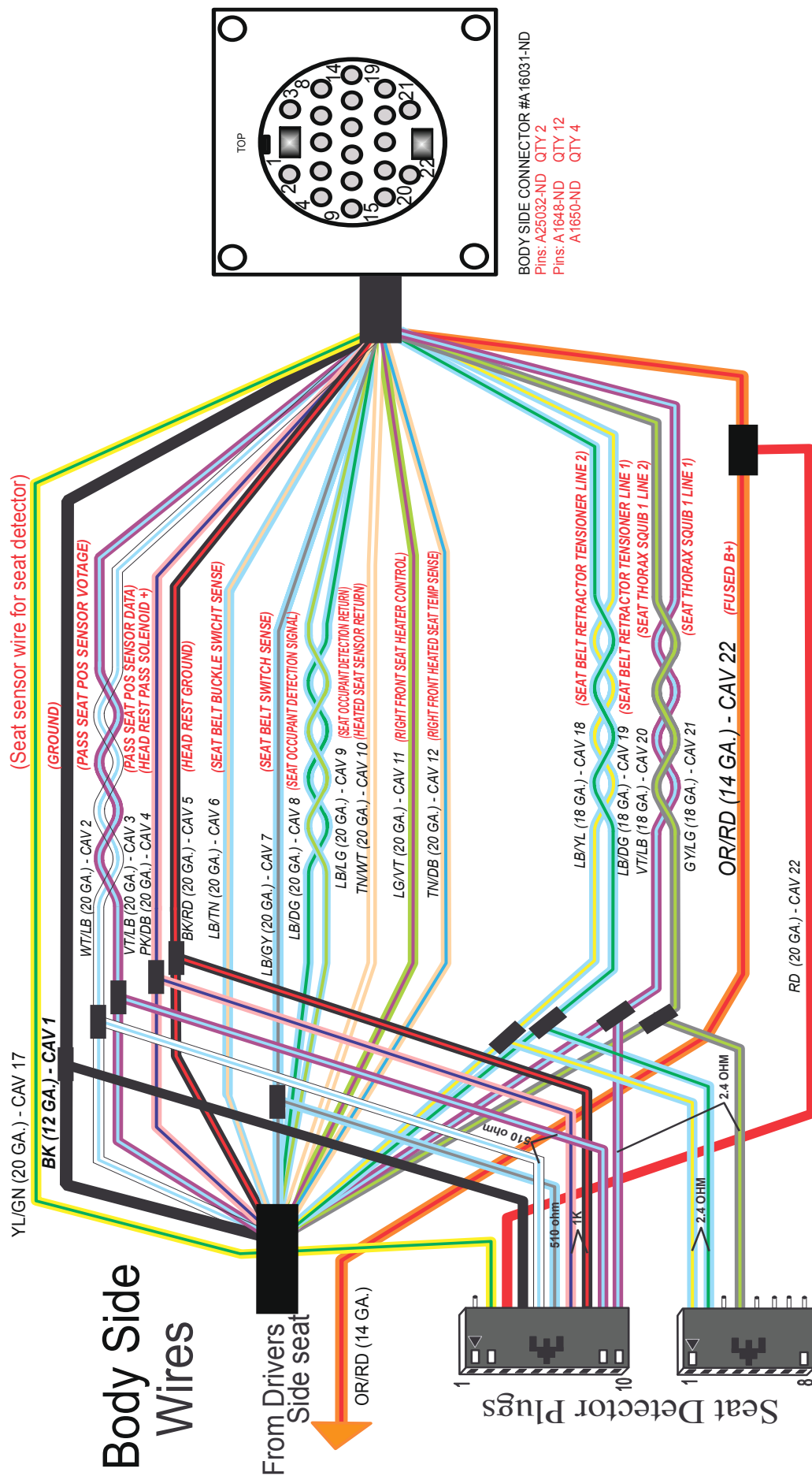
Updated on 6/19/2015

2011-2012 Chrysler Minivan

C378 Passenger Side with POWER & HEAT - With Seat Detector

BODY SIDE

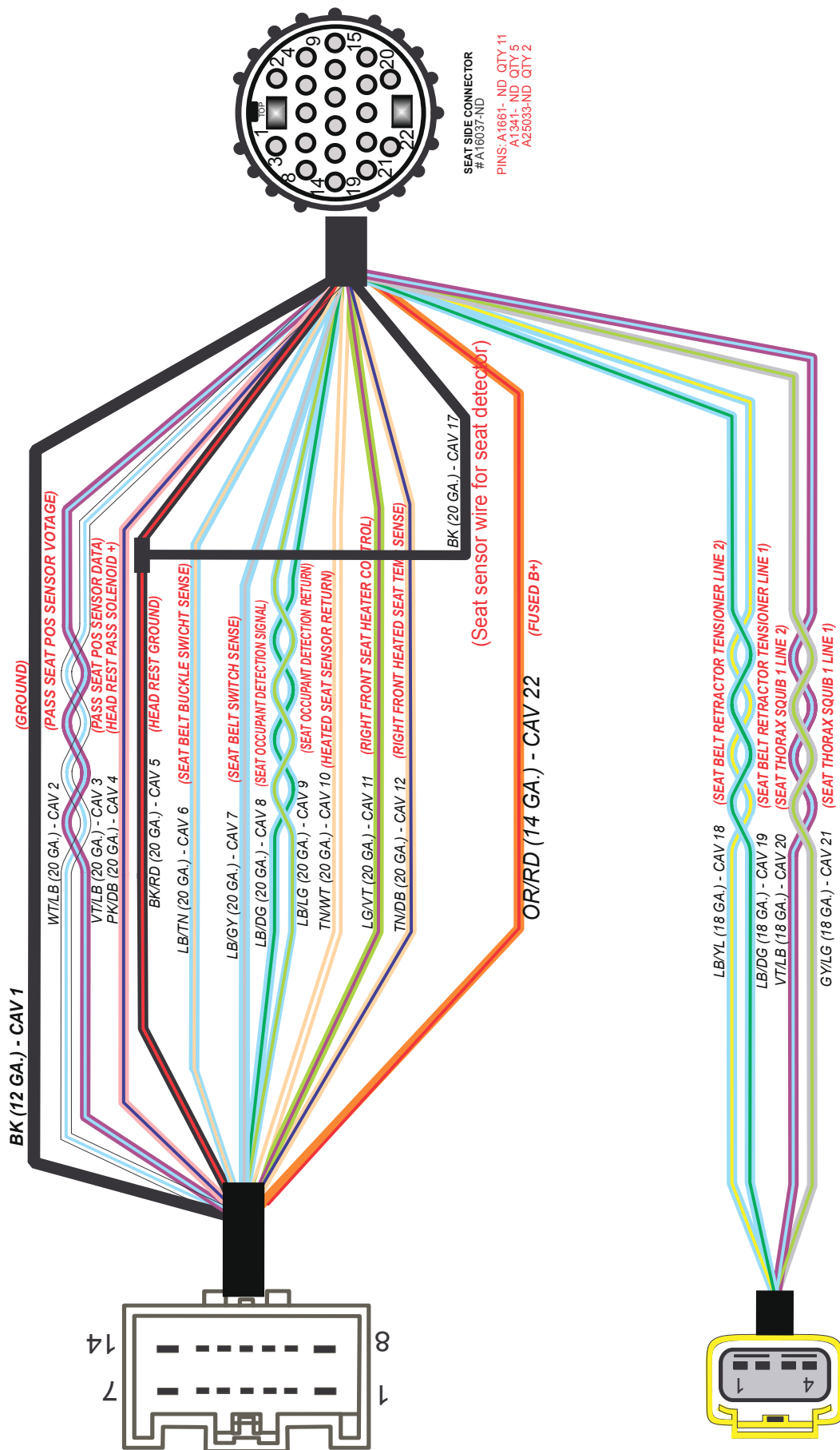
(NO OCCUPANT DETECTION CIRCUIT)



Updated on 6/3/2014

2011-2012 Chrysler Minivan

C378_Passenger Seat with POWER & HEAT - With Seat Detector SEAT SIDE



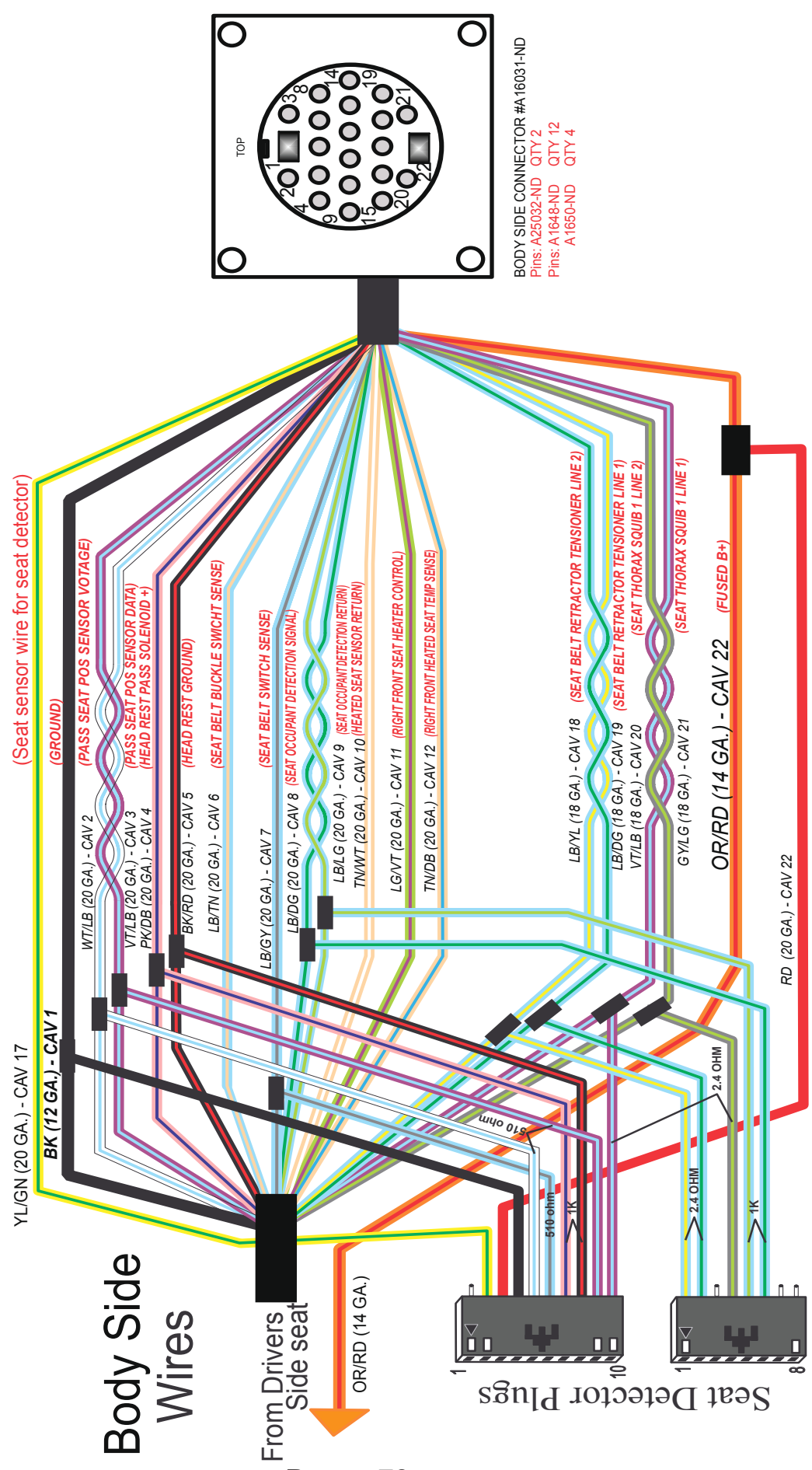
2011-2012 Chrysler Minivan

C378 Passenger Side with POWER & HEAT - With Seat Detector

Updated on 6/19/2015

BODY SIDE

(W/ OCCUPANT DETECTION CIRCUIT)

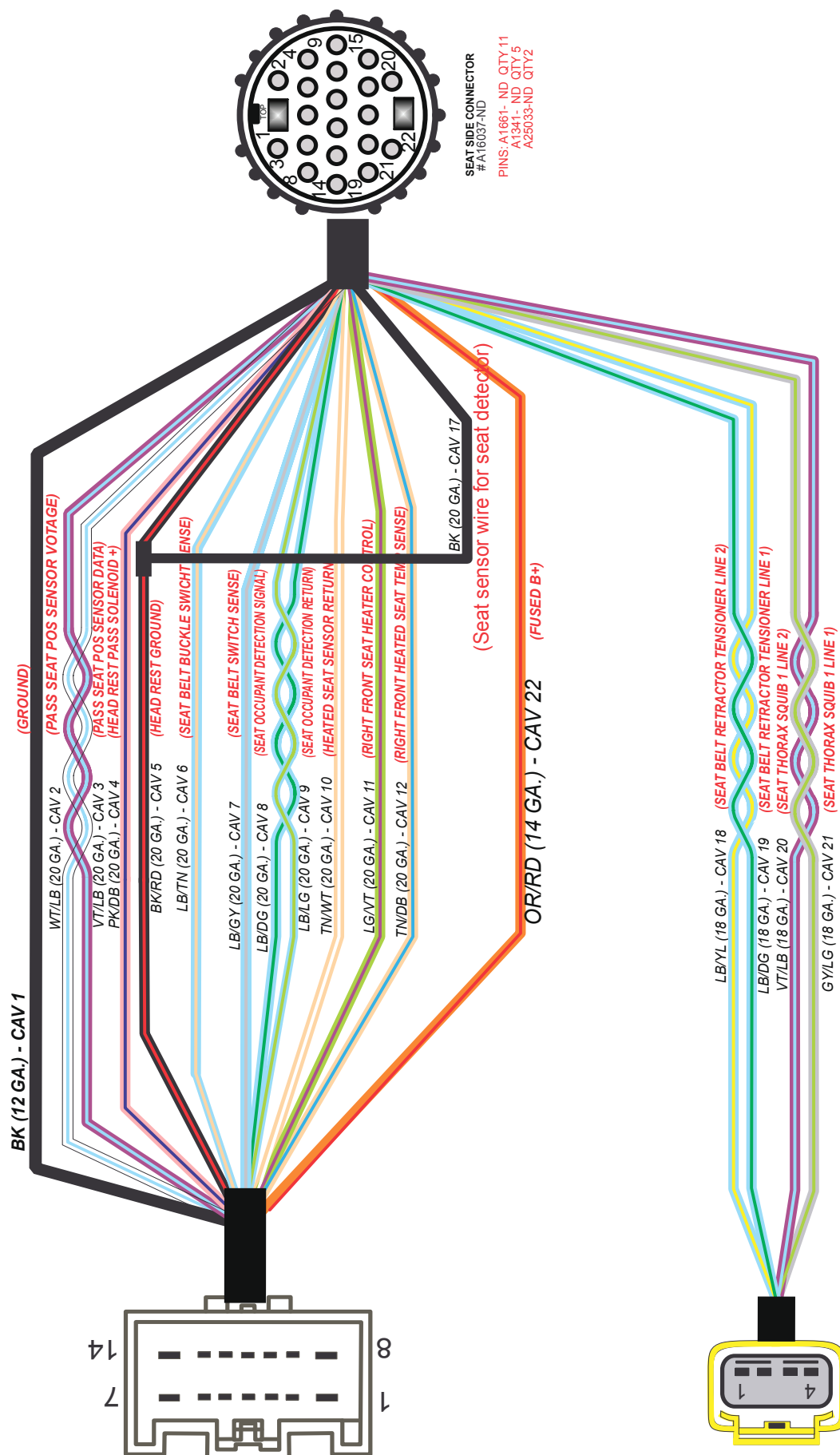


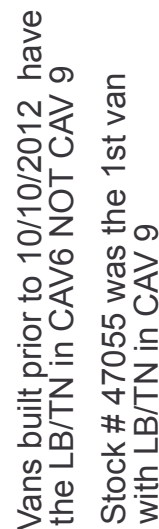
Updated on 6/3/2014

C378_Passenger Seat with POWER & HEAT - With Seat Detector

SEAT SIDE

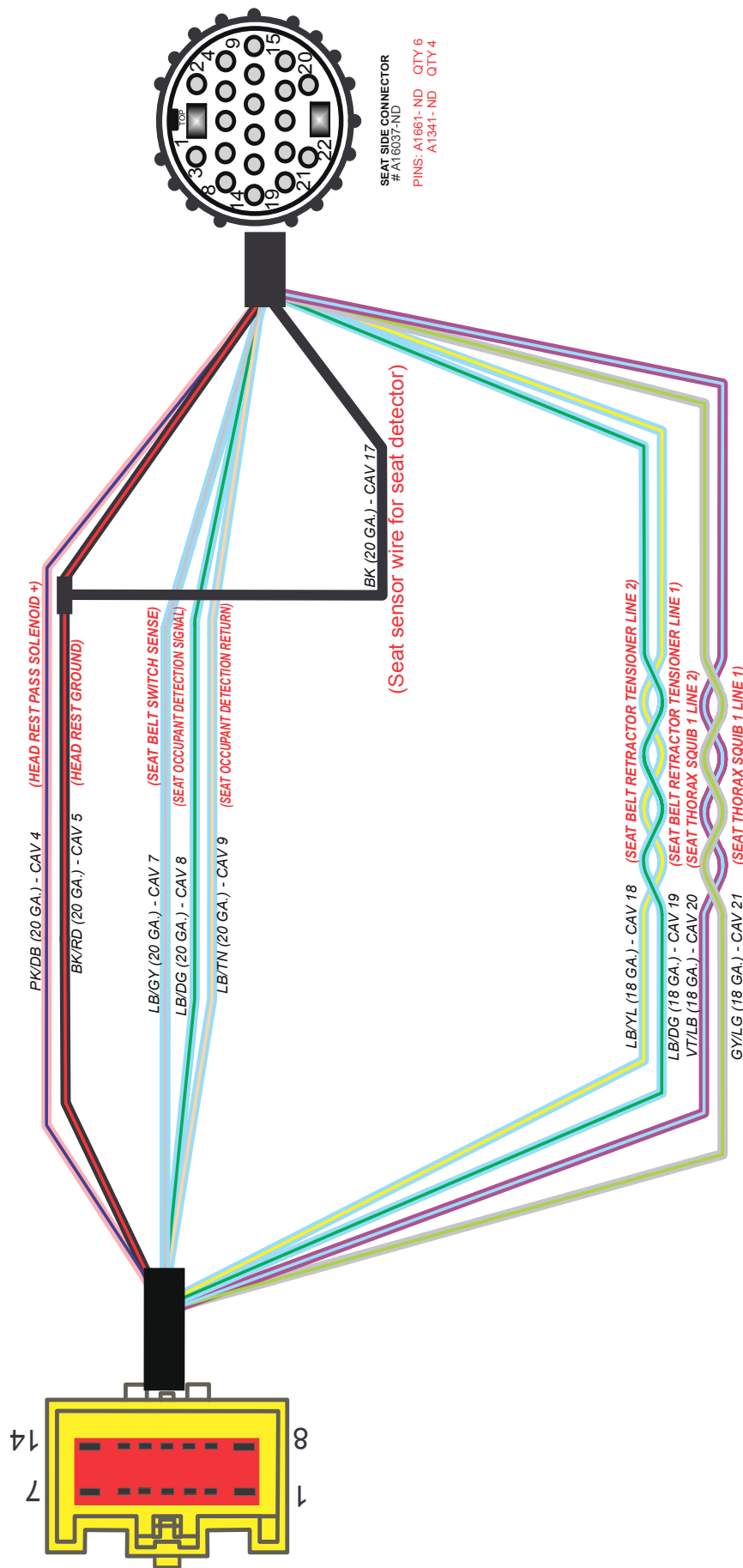
(W/ OCCUPANT DETECTION CIRCUIT)





Updated on 9/18/2015

2013-2016 Chrysler Minivan I406A/C378_Passenger Seat with **MANUAL** - With Seat Detector **SEAT SIDE**



Vans built prior to 10/10/2012 have the LB/TN in CAV6 NOT CAV 9
Stock # 47055 was the 1st van with LB/TN in CAV 9

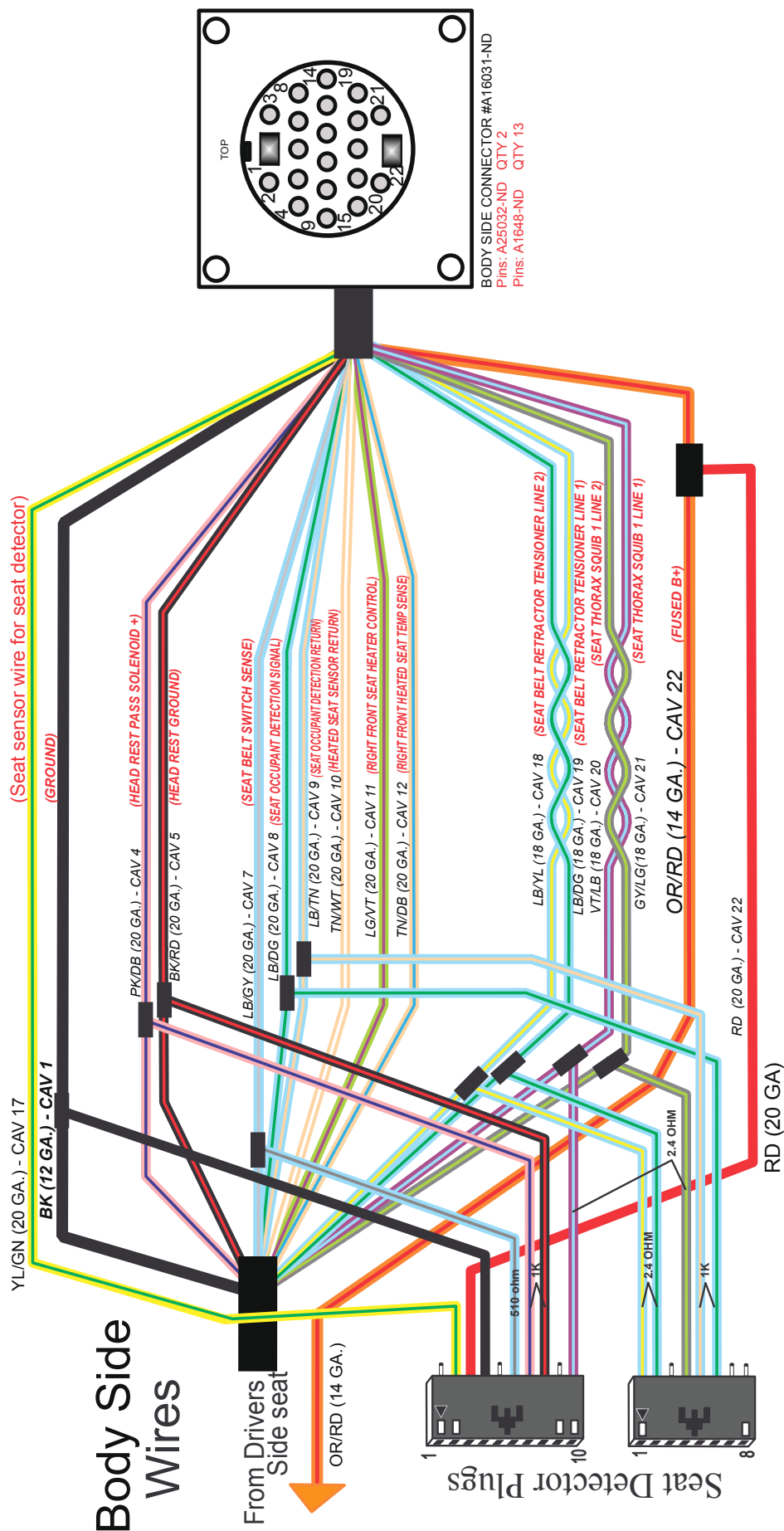


2013-2016 Chrysler Minivan

Updated on 6/19/2015

I406/C378 Passenger Side with POWER & HEAT - With Seat Detector

BODY SIDE (W/ OCCUPANT DETECTION CIRCUIT)

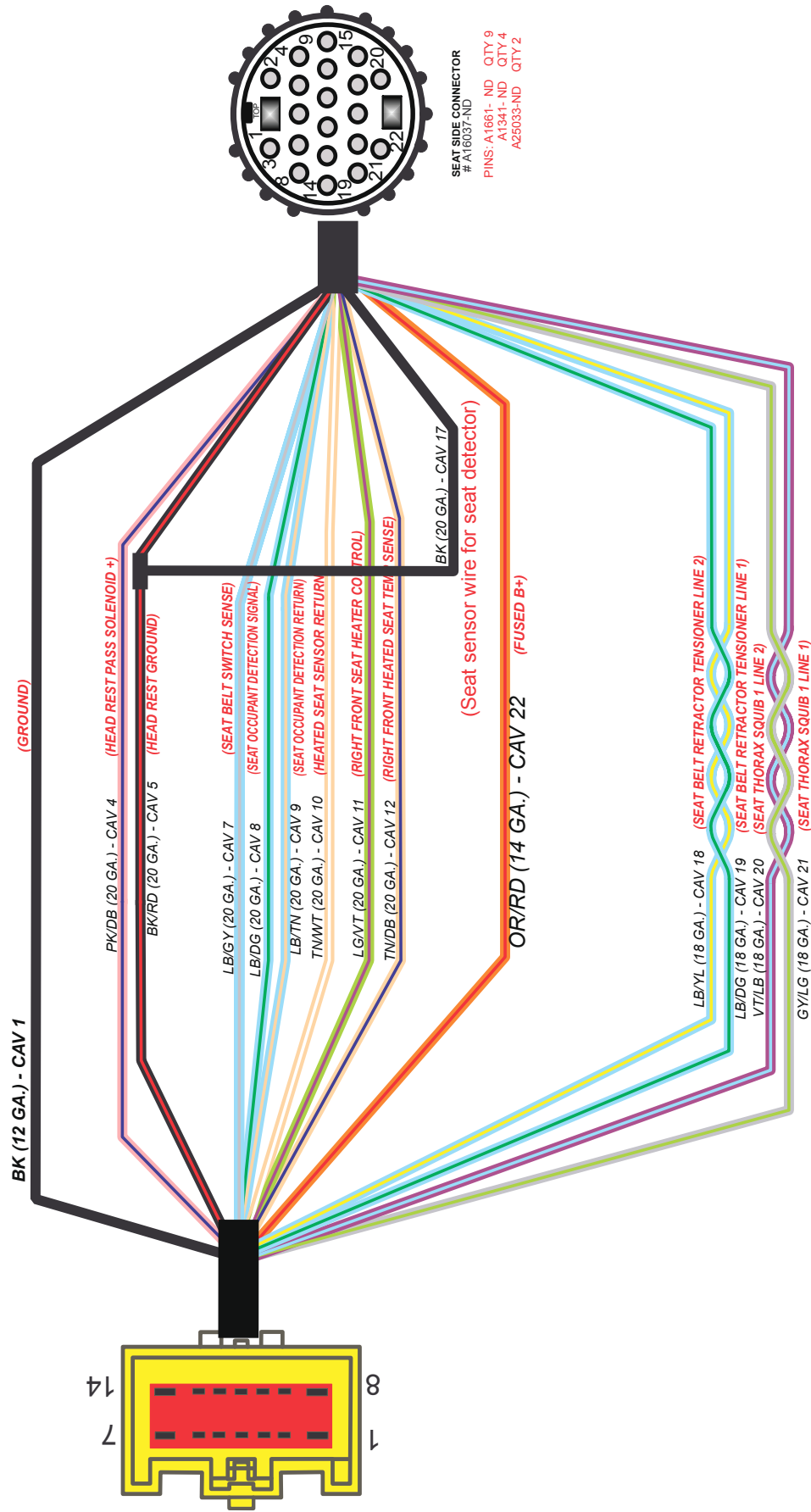


Vans built prior to 10/10/2012 have the LB/TN in CAV6 NOT CAV 9

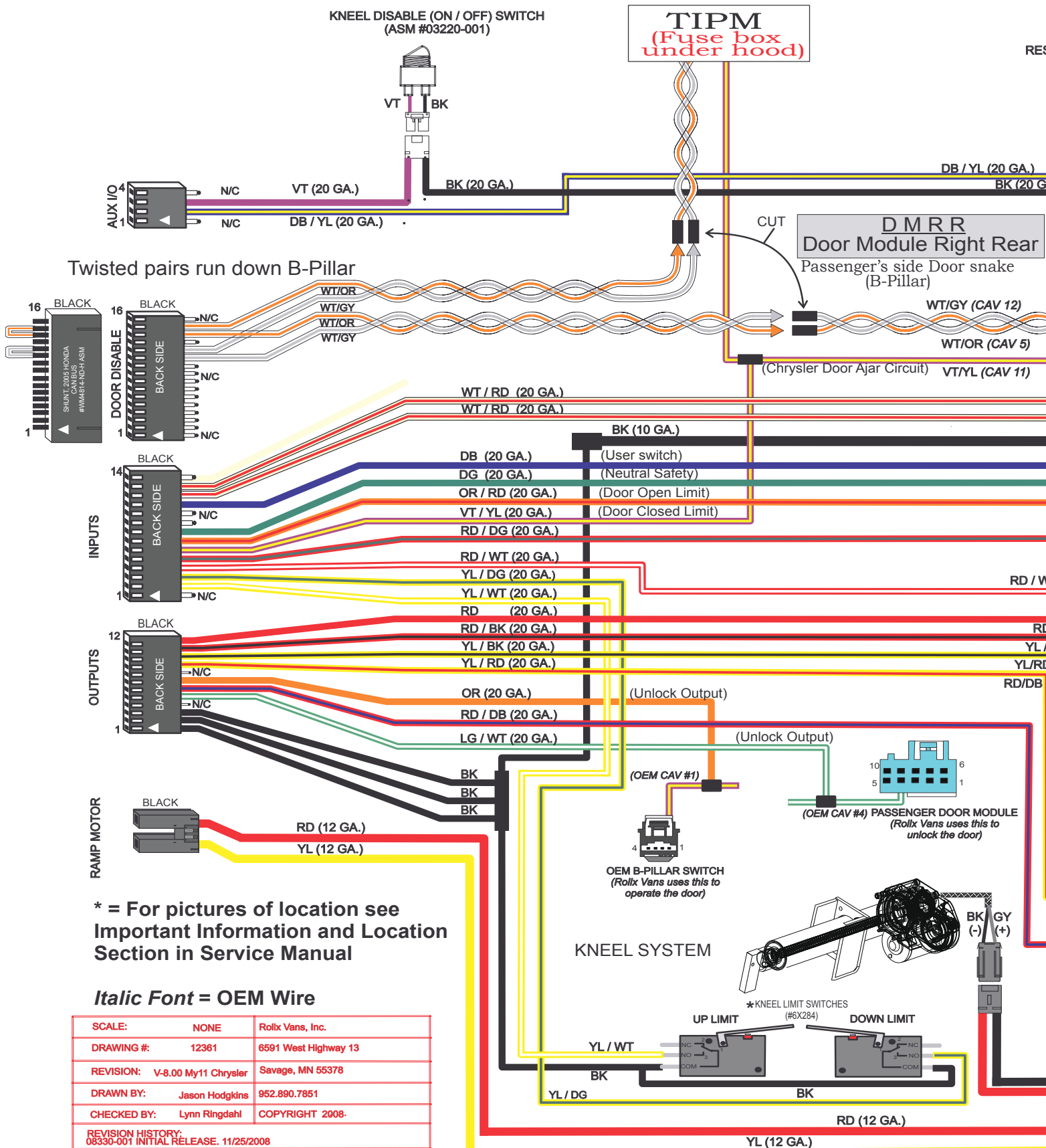
Stock # 47055 was the 1st van with LB/TN in CAV 9

Updated on 9/18/2015

2013-2016 Chrysler Minivan I406A/C378_Passenger Seat with POWER & HEAT - With Seat Detector SEAT SIDE



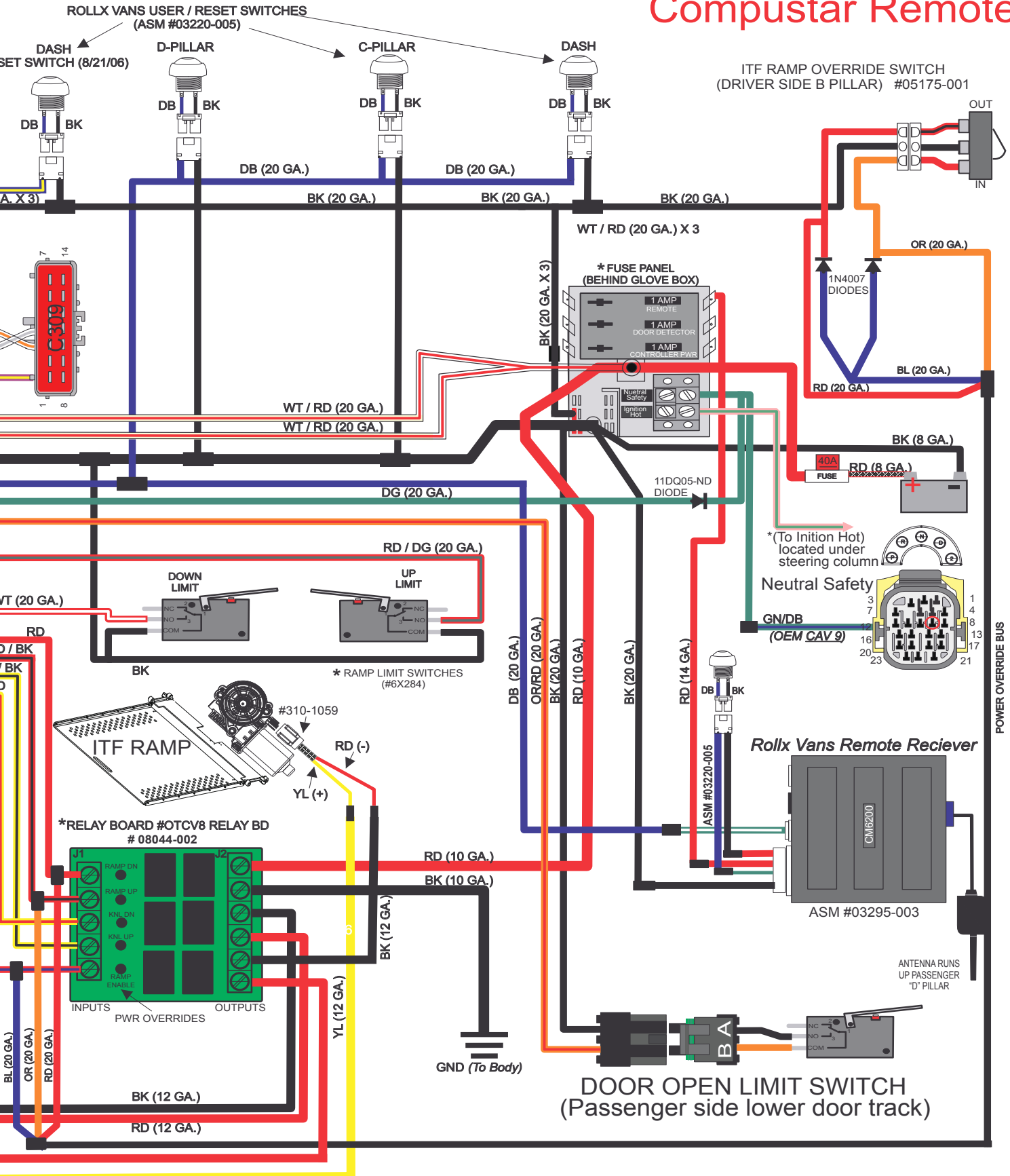
Vans built prior to 10/10/2012 have the LB/TN in CAV6 NOT CAV 9
Stock # 47055 was the 1st van with LB/TN in CAV 9

ROLLX VANS ONE TOUCH CON
ITF Harness V6/ OTC Board V8 MO

CONTROLLER WIRING DIAGRAM
D E-F (W/ Limit Switch)

BUILT BEFORE 8/26/2013 12/27/12

Compustar Remote

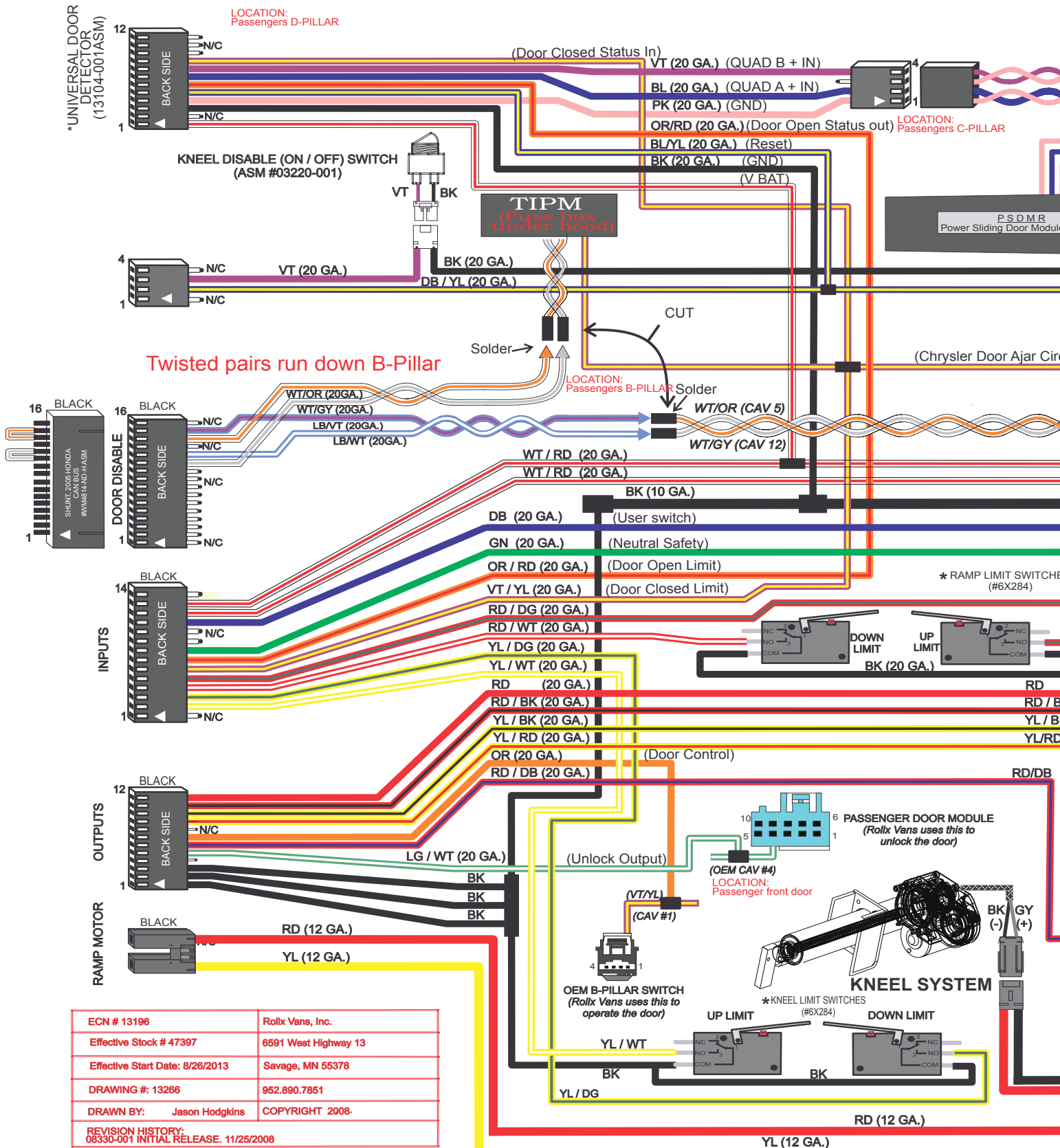




* = For pictures of location see Important Information and Location Section in Service Manual

Italic Font = OEM Wire

ROLLX VANS ONE TOUCH ITF Harness V6/ OTC Board V8 MC

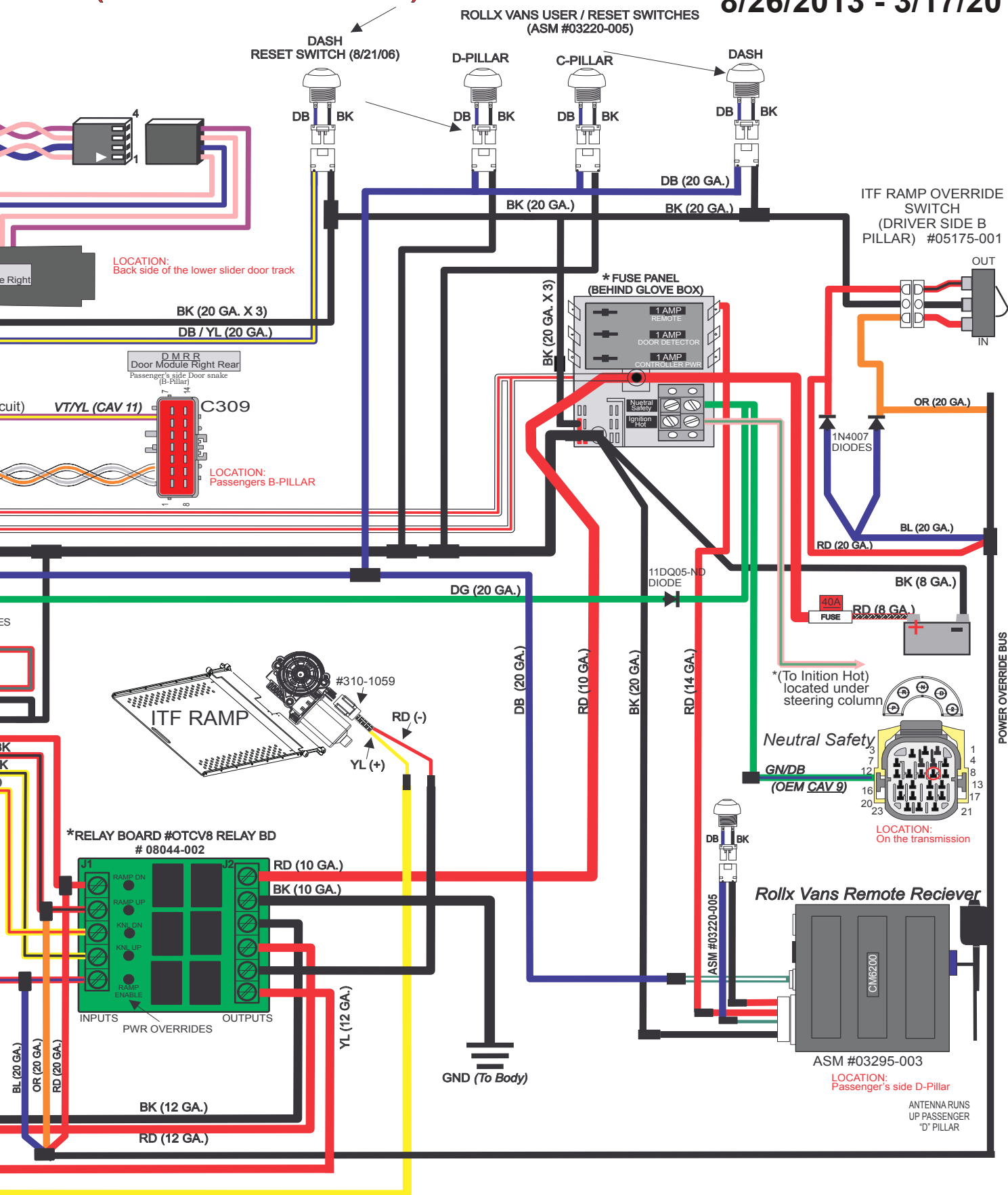




CONTROLLER WIRING DIAGRAM DD F (W/ Door Detector)

9/23/2013

BUILT BETWEEN:
8/26/2013 - 3/17/2014





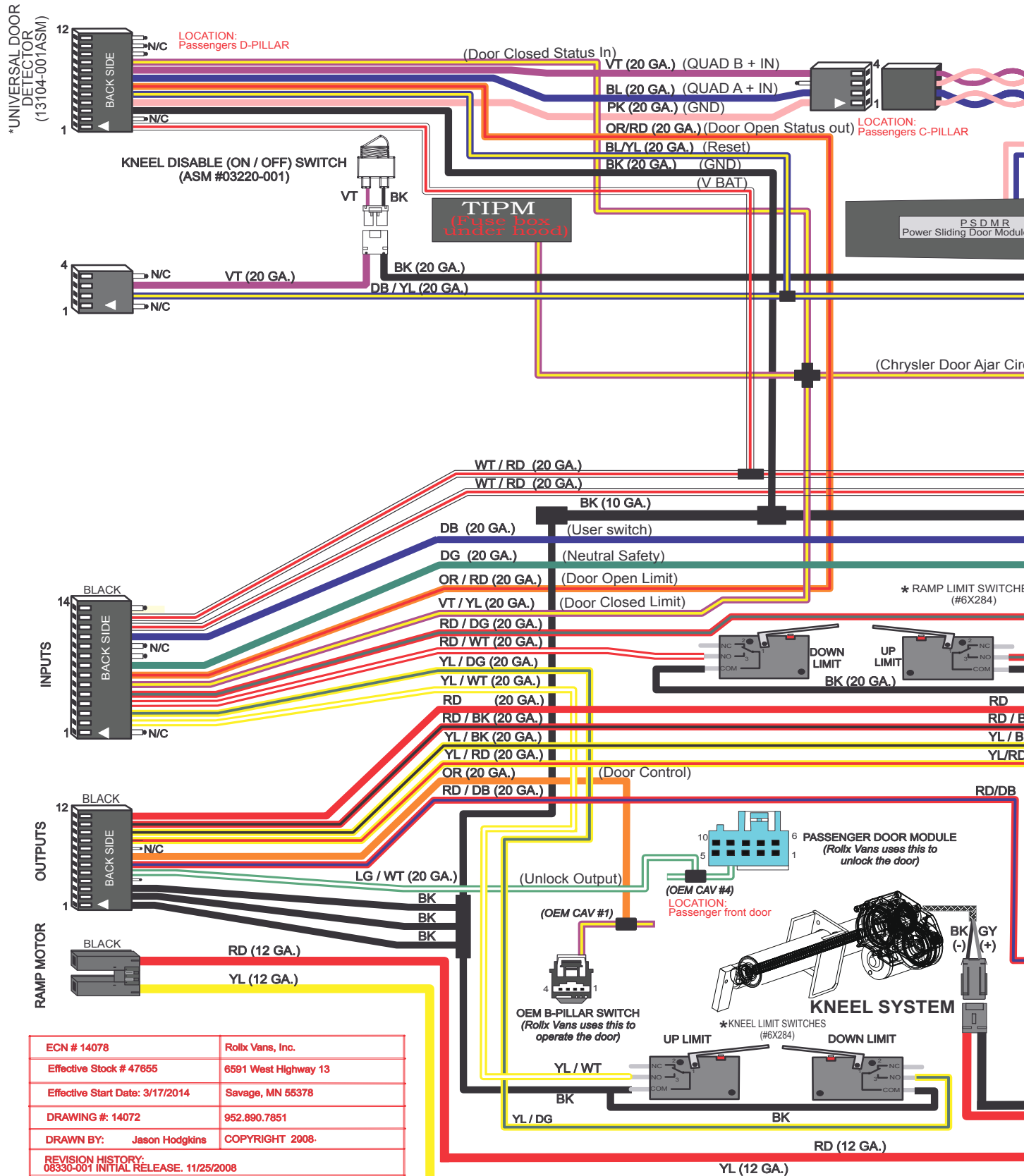
OTC WIRING

(WITH THE DOOR DETECTOR NO CAN BUS)

* = For pictures of location see Important Information and Location Section in Service Manual

Italic Font = OEM Wire

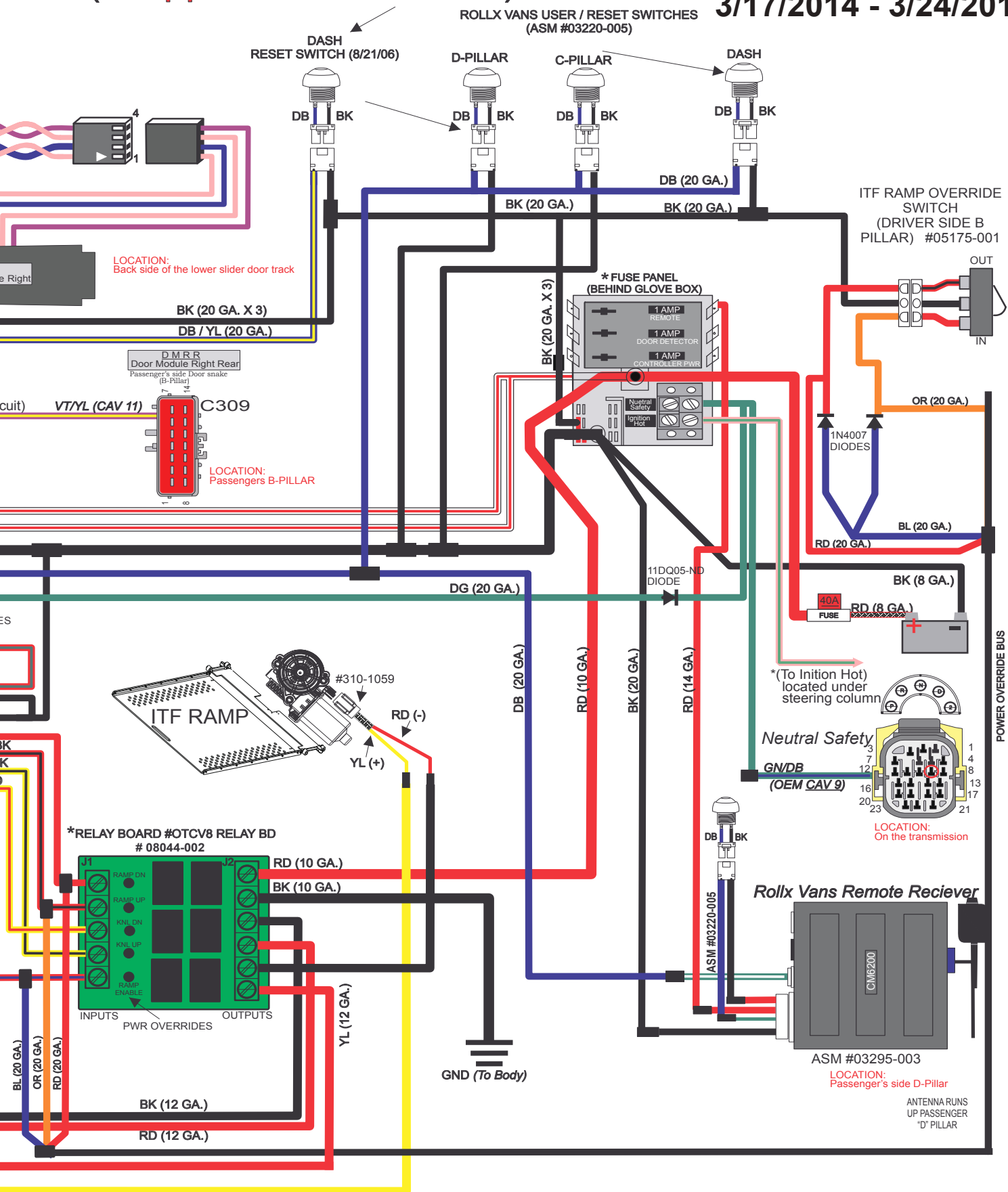
ROLLX VANS ONE TOUCH COM ITF Harness V6/ OTC Board V8 MC



ECN # 14078	Rollx Vans, Inc.
Effective Stock # 47655	6591 West Highway 13
Effective Start Date: 3/17/2014	Savage, MN 55378
DRAWING #: 14072	952.890.7851
DRAWN BY: Jason Hodgkins	COPYRIGHT 2008.
REVISION HISTORY: 08330-001 INITIAL RELEASE. 11/25/2008	

CONTROLLER WIRING DIAGRAM
MOD F (Dropped the CAN BUS)

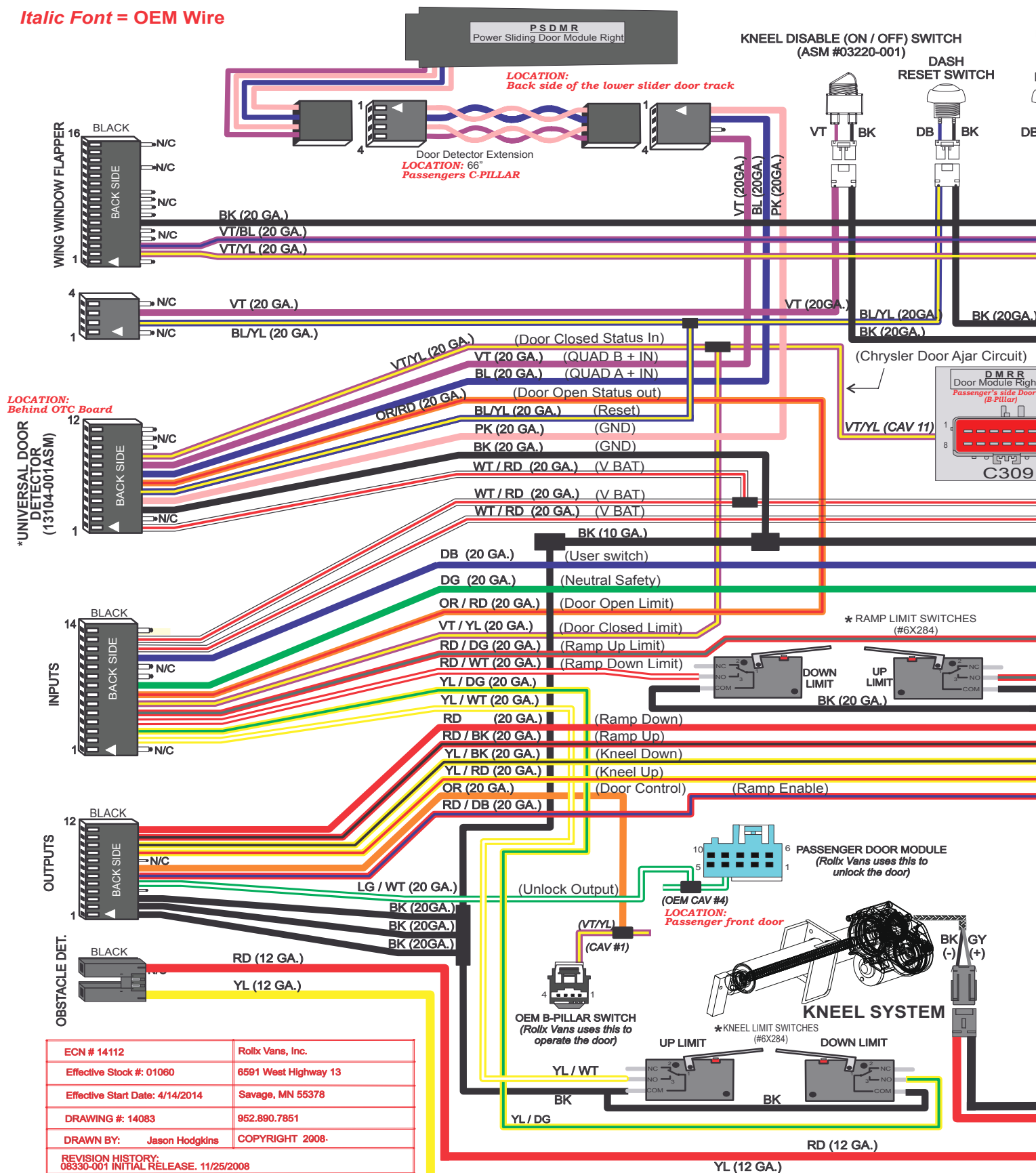
3/13/2014

BUILT BETWEEN:
3/17/2014 - 3/24/2014

*** = For pictures of location see Important Information and Location Section in Service Manual**

***Italic Font* = OEM Wire**

ROLLX VANS ONE TOUCH COM



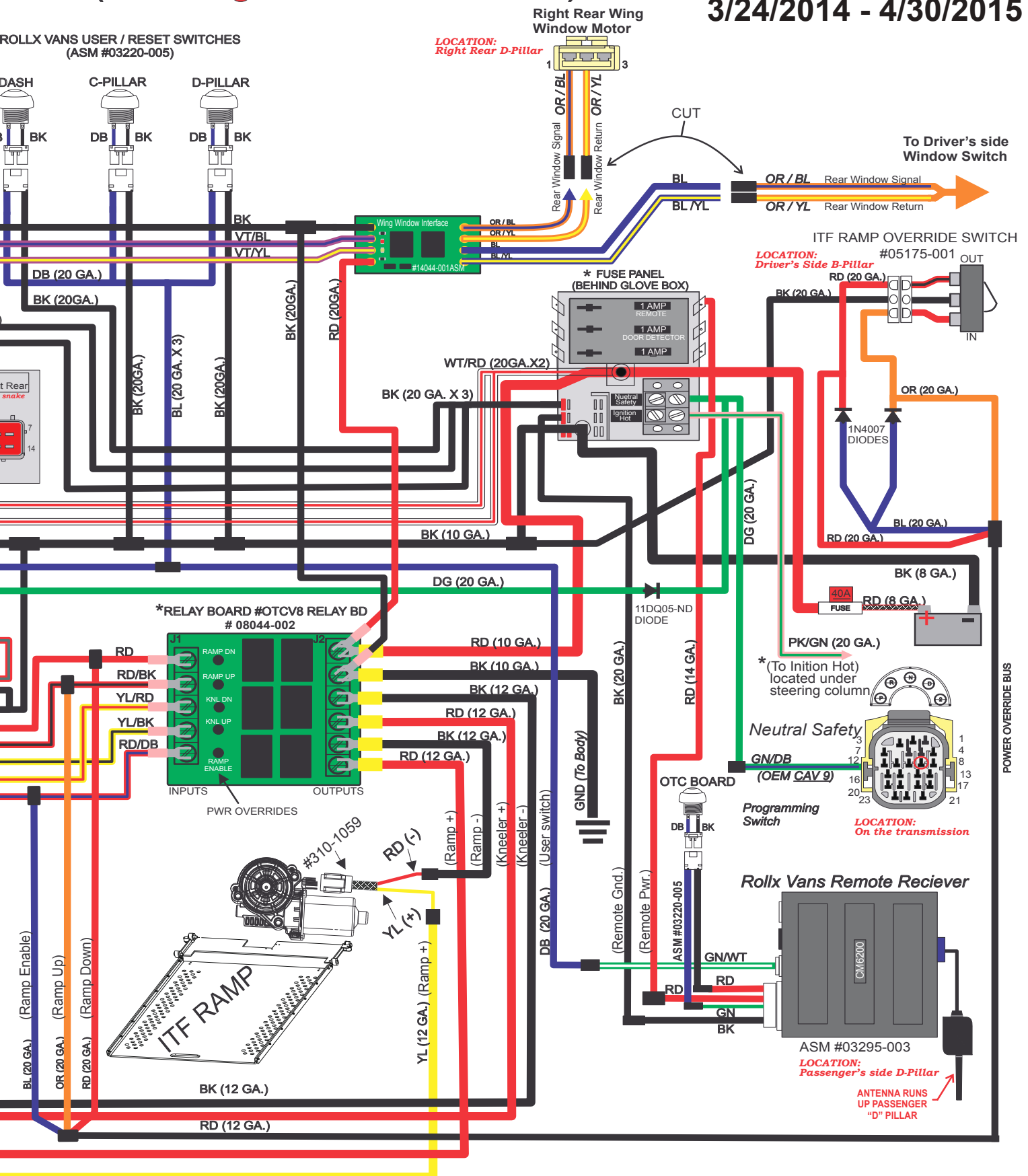
ECN # 14112	Rollx Vans, Inc.
Effective Stock #: 01060	6591 West Highway 13
Effective Start Date: 4/14/2014	Savage, MN 55378
DRAWING #: 14083	952.890.7851
DRAWN BY: Jason Hodgkins	COPYRIGHT 2008.
REVISION HISTORY: 08330-001 INITIAL RELEASE. 11/25/2008	

3/24/2014

CONTROLLER WIRING DIAGRAM

MOD H (W/ Wing Window Interface)

Built Between:
3/24/2014 - 4/30/2015

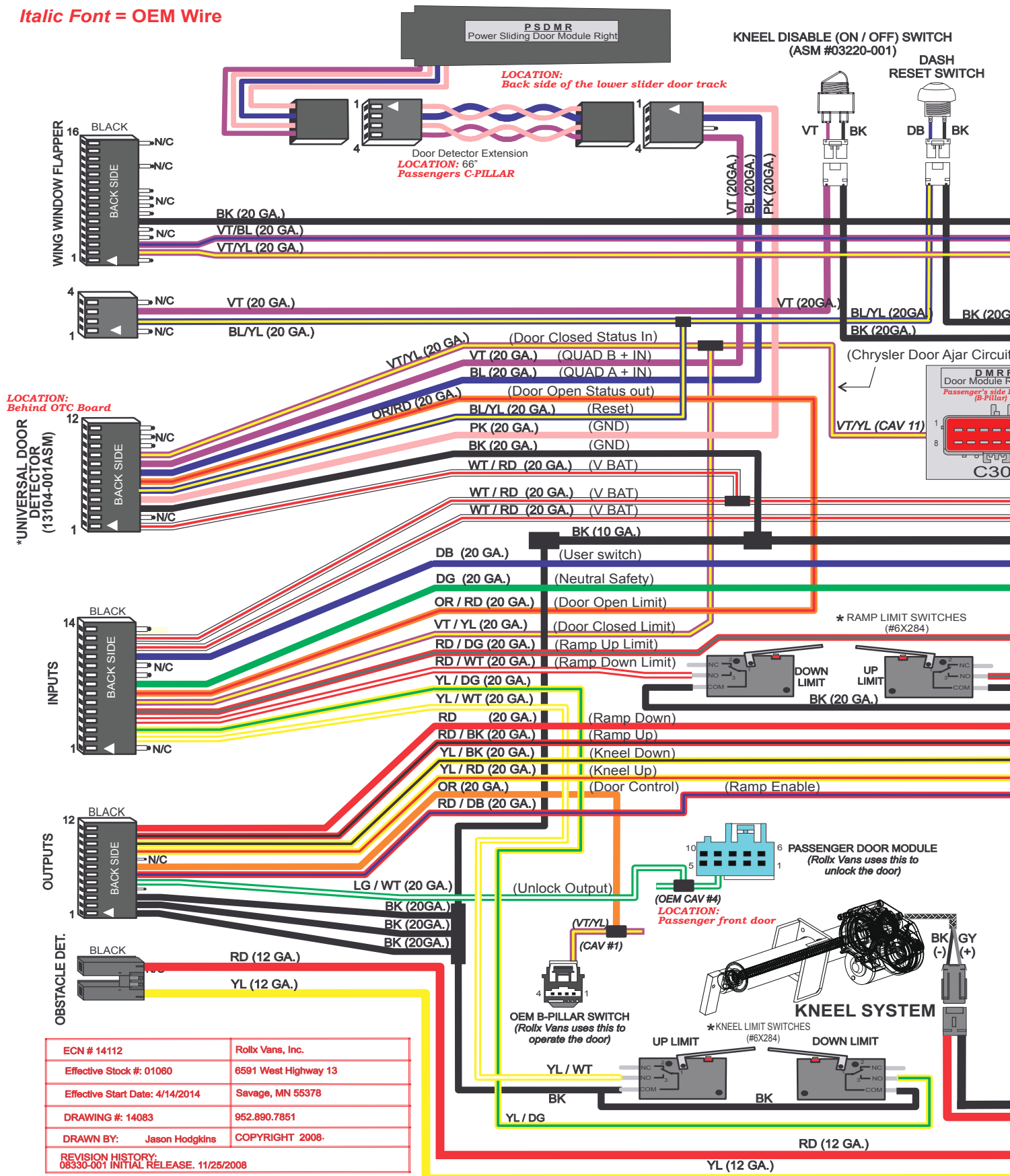




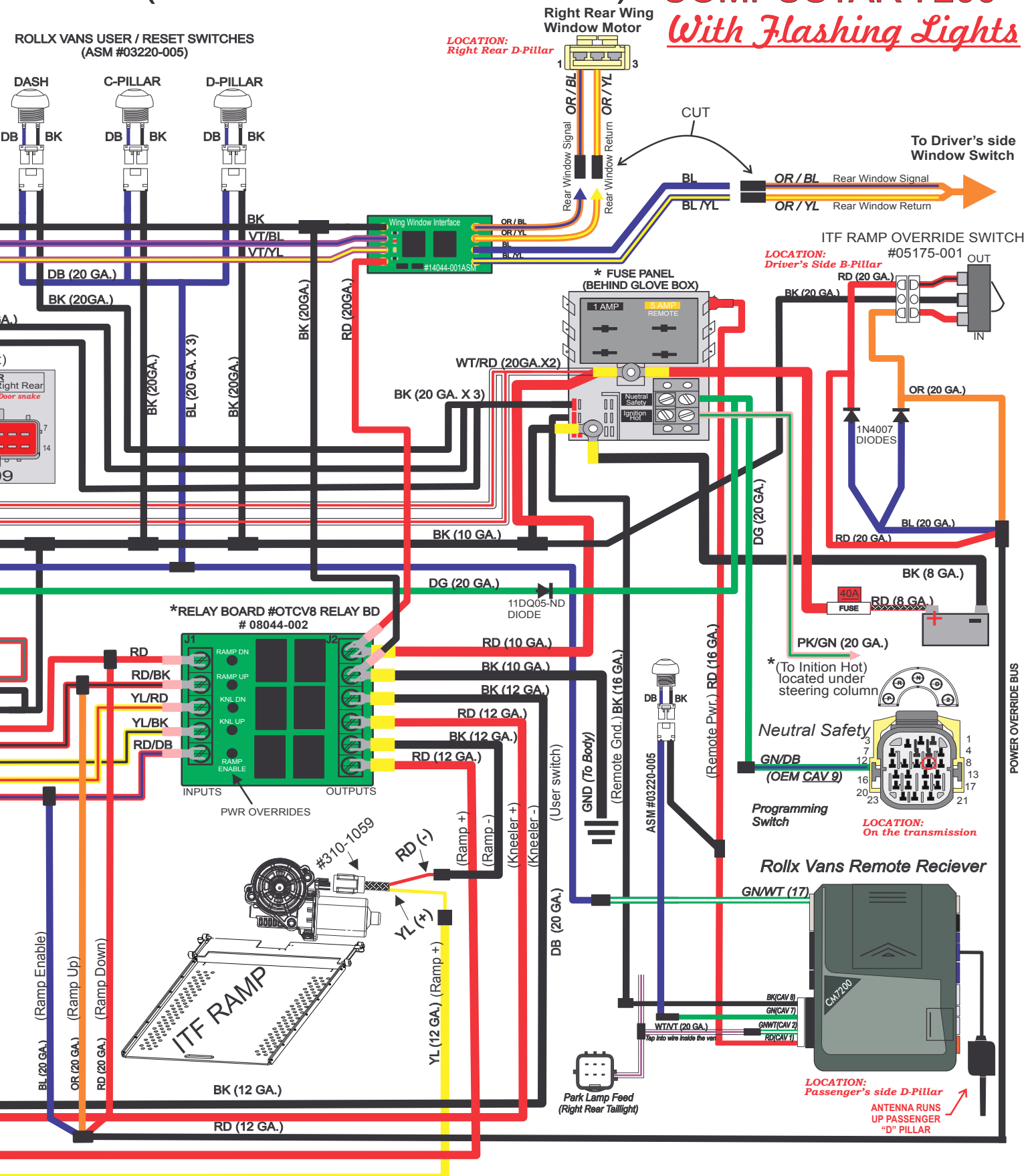
* = For pictures of location see
Important Information and Location
Section in Service Manual

Italic Font = OEM Wire

ROLLX VANS ONE TOUCH CO ITF Harness V7/ OTC Board V8 M

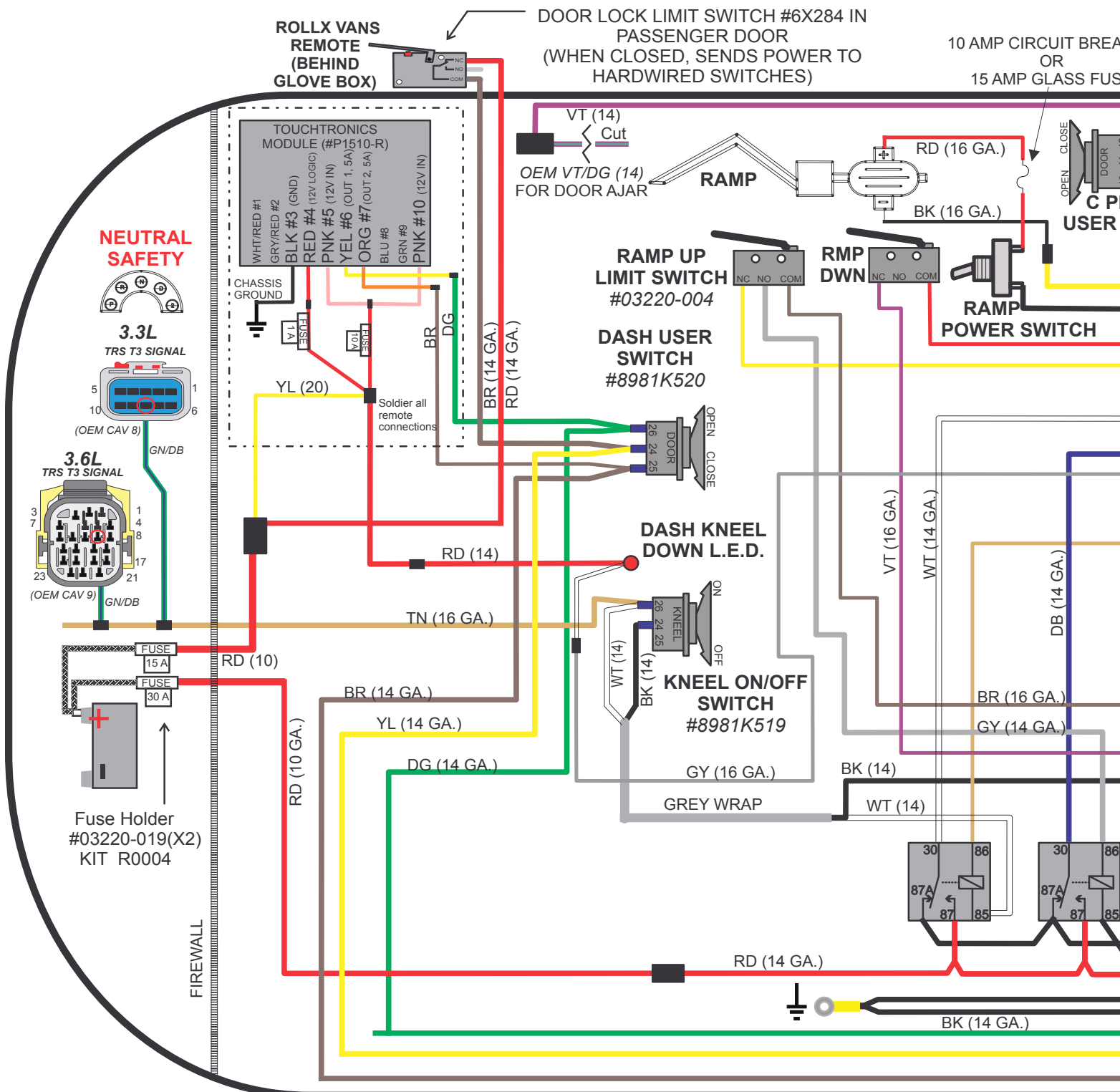


ECN # 14112	Rollx Vans, Inc.
Effective Stock #: 01060	6591 West Highway 13
Effective Start Date: 4/14/2014	Savage, MN 55378
DRAWING #: 14083	952.890.7851
DRAWN BY: Jason Hodgkins	COPYRIGHT 2008.
REVISION HISTORY: 08330-001 INITIAL RELEASE. 11/25/2008	

CONTROLLER WIRING DIAGRAM BUILT AFTER 4/30/2015 5/4/2015
MOD J-L (MODEL YEAR 2008-2016)COMPUSTAR 7200
With Flashing Lights



Rollx Vans Power Door (Motor Bar) Touchtronic Power Touch 1550-P



DOOR OPEN

DOOR CLO

LOCAT

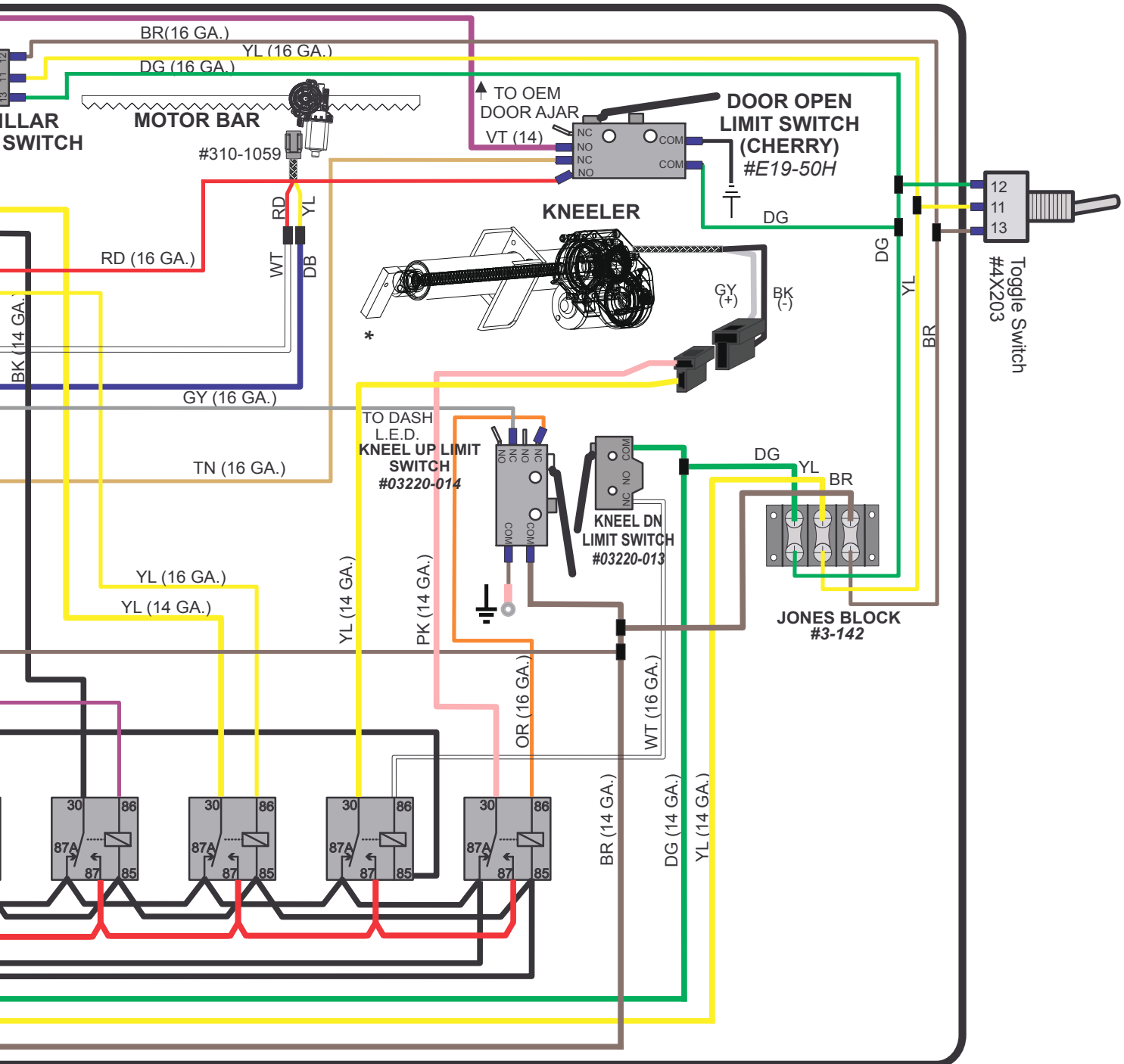


8/19/2015

Motor Bar) Wiring Diagram v2 R Remote System (Jan. 2011)

AKER

GE



RELAYS (#5-1393302-8)

ED IN OEM SPARE TIRE KIT COMPARTMENT

Chrysler/Dodge Security By-Pass Installation Instructions

Use on models:

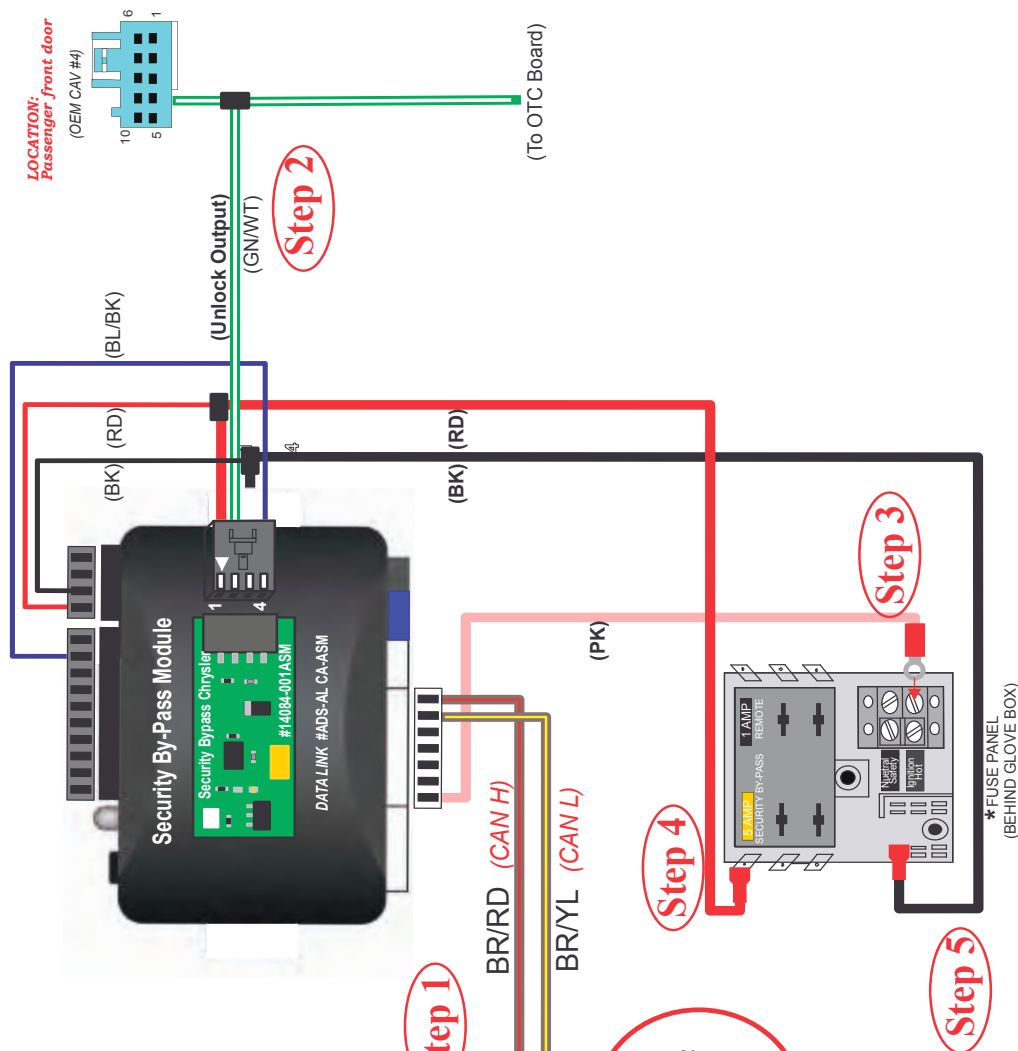
CHRYSLER TOWN & COUNTRY LTD
CHRYSLER TOWN & COUNTRY TOURING-L
CHRYSLER TOWN & COUNTRY TOURING-K
DODGE GRAND CARAVAN R/T
DODGE GRAND CARAVAN SXT

INSTALLATION INSTRUCTIONS

STEP:

1. Tap the **CAN H/CAN L** from the module into the **CAN C+/CAN C-** circuits on the plug behind the glove box (on the right wall). **See Fig 1**
2. Tap the **GN/WT** (door unlock output) wire into the **GN/WT** wire going in through the passengers front door.
3. Attach the **PK** wire from the module to the ignition hot on the fuse panel.
4. Plug in the **RD** wire from the module to fuse panel power with a lamp fuse.
5. Plug in the **BK** wire to the ground point on the fuse panel.

Note: May need to set the settings on the van to "unlock all doors w/ one press".



Security By-pass module mounted here

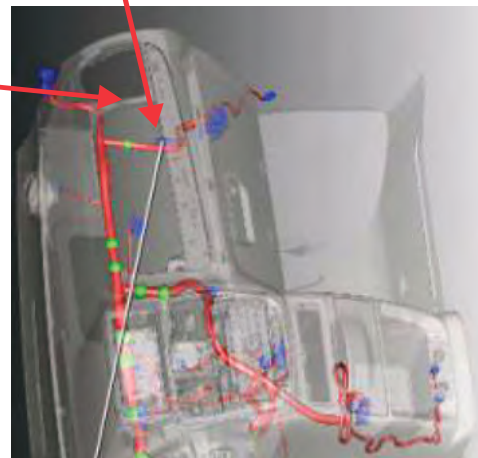


Fig 1

Note: Some vans don't have the plug behind the glove box. **See Fig 1** in these cases locate the same WT/BN & WT/BL Twisted Wires under the steering console.



Setting up Unlock Sequence

All doors must unlock on first press of key fob

To enable this function do one of the following:

For vehicles with the EVIC: **Fig A**

1. Use the EVIC control pad (see Fig B) Up/Down buttons & highlight “SYSTEM SETUP”, then Select.
2. Next use the Up/Down buttons to highlight “Remote Unlock Sequence”, then Select.
3. Now highlight the “Unlock All Doors on 1st Press” section, then Select

Fig A



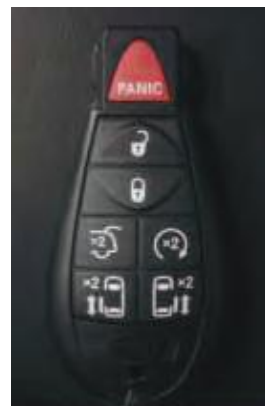
Fig B

EVIC Control Pad
(Located on left side of steering wheel)



For vehicles without the EVIC:

1. Perform this operation while standing outside the vehicle using the OEM key fob.
2. Push & hold the LOCK button on the key fob for at least 4 seconds, but no longer than 10 seconds. Then, push & hold the UNLOCK button while still holding the LOCK button.
3. Release both buttons at the same time.
4. Lock the doors and then Unlock (making sure all doors unlock on 1st press).



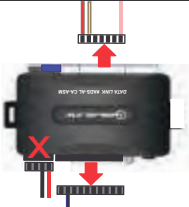
Testing The OTC System

1. Close All doors and lift gate.
2. Stand outside vehicle and lock doors with the OEM Remote.
3. Watch the “Security Alarm” red indicator light on the dash.
4. Wait 20 seconds until the red light on the dash flashes slowly.
5. Once the system is armed use the OTC remote to operate the system.
6. All doors should unlock and open cycle will begin.

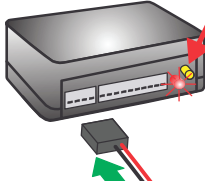


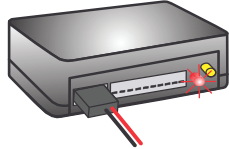
Chrysler/Dodge Security By-pass Reset & Programming Sequence

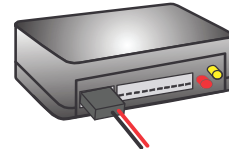
FACTORY RESET PROCEDURE

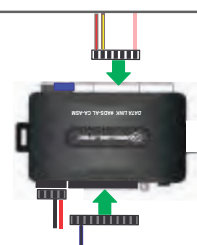
- 

DISCONNECT all connectors from the module **EXCEPT** the black 4-PIN connector.
- 

Now **DISCONNECT** the black 4-pin connector.
- 

PRESS & HOLD the programming button while reconnecting the 4-pin connector until the led flashes red.
- 

When LED flashes red, **RELEASE** programming button.
- 

LED will turn solid red, for 2 seconds .
RESET COMPLETED.
- 

RECONNECT all connectors

INSTALLATION MODE SELECTION

- 

PRESS & RELEASE the programming button 1 time.

 LED flashes twice.
- 

PRESS & HOLD the programming button until LED turns solid GREEN.

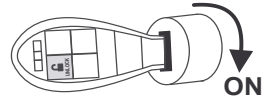
MODULE PROGRAMMING PROCEDURE

- 

Close driver door.

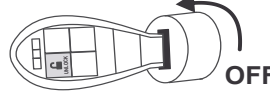


Re-open driver door to wake up data bus.
- 

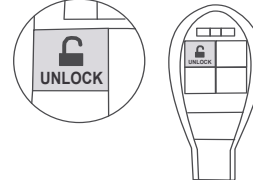
Insert key into ignition.
- 

Turn key to ON position.
- 

LED will turn solid RED.
- 

Within **5 seconds**, LED will flash GREEN rapidly.
- 

Turn key to OFF position.
- 

Remove key.
- 

Press UNLOCK on the OEM remote.
- 

Wait, LED will turn solid GREEN for 2 seconds, Then shut off.



Programming complete.



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Doors

Door track - Periodically make sure lower door track is free of debris and vacuum track out. Make certain to clear out any water and ice that may be present. In the front of each door track there are plugs that can be removed to allow an air hose to be inserted to help remove debris.

Rollx Vans power door (If equipped) - Every 6 months lube the gear rack (bar) with a high quality white lithium grease. Make sure to clean off any old grease first.

Kneel System

Kneel chain - Every 6 months spray the chain inside the rubber boot with a high quality oil to lubricate and protect. DO NOT USE WD40.

Ramps

Folding ramp - Every 6 months spray the ramp's lower and upper hinge with high quality silicon lubricant.

In The Floor ramp - Every 6 months spray the ramp access cover's flap hinge with a high quality silicon lubricant. Also spray the two silver strips on the underside of the ramp to reduce friction.



New Rollx Vans Van Warranty Coverage Information

Rollx Vans provides a limited warranty on its minivan against defects in material or workmanship for a period of 3 years or 36,000 miles, whichever comes first. For warranty specifics please refer to an Owner's Manual or contact Rollx Vans Customer Service.

For all warranty or reimbursement needs, you must have prior authorization by the Rollx Vans Service Department.

1. Call 1-800-956-6668, and a Rollx Vans Customer Service Representative will assist you in any concerns or issues you have with your van.
2. The service representative will evaluate what repair is needed, and either set up an appointment with an "At Home" Service Technician or direct you to a nearby service facility. An authorization number must be issued.

Rollx Vans will work with many repair facilities. Rollx Vans reserves the right to approve a repair shop or recommend an alternative.

Rollx Vans may request that defective/damaged parts be returned to our Customer Service Department for inspection. If parts are found to be damaged because of abuse or neglect, reimbursement for the new replacement parts may be denied. Rollx Vans reserves the right to use rebuilt components.

Rollx Vans will ship all warranted replacement parts by nationwide carrier. In most cases, shipment will be by ground transport and absorbed by Rollx Vans. Any other mode of transportation will be at the expense of the customer.

Our Mission

To improve the quality of life of people with disabilities of all income levels by delivering the best modified vehicle.

We intend to keep that customer for life by following up with a level of service that exceeds all of their expectations.

Our Values

Quality • Compassion • Honesty • Integrity • Fairness

