Jeep WJ Ground Write-up Info - JeepForum.com



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11-05-2017, 04:3	3 AM Thread Starte	r	post #1	1 of 61
<b>Uniblurb</b> Web Wheeler	Jeep WJ Ground W	/rite-up Info		
A JeepForum Supporter	failure or create have ground locations alor	oc. The purpose of ng with listing whi ition to insulated g	grounds to avoid electr f this thread is to pinpo ch components connec ground wires the flat gr	oint ct to
2004 WJ ♥	FSM (Factory Service location isn't much h wiring schematics to	e Manual). Since ju help I went through find which compo	gathered from the 200- ust knowing the ground h hundreds of pages of onents connect to each ded with the ground wir	d f
Join Date: Jan 2012 Location: Central Posts: 9,795 Defile Gallery Classifieds My Jeeps	addition to the 4.7 le	eft-hand-drive WJ's out photos. There	from my 04 4.7 Limite s the 4.0 grounds will a was just too much info I WJ's.	also
V My Jeeps	welcomed. Also since	e the WJ's (1999-2	ons or additions are gla 2004 Grand Cherokee) different grounding tha	cover
	<ul> <li>Pliers or vice-grips</li> <li>Rust cutter if the b</li> <li>Small wire brush, f</li> <li>Dremel/rotary tool</li> </ul>	ockets for removir in case the eyelet olts/nuts are diffic ine emery cloth or with wire wheel ir eaner preferred so	ng ground bolts/nuts. is are seized or turn. cult to loosen/seized. r fine sandpaper. nstead of above if availa me use carb/brake clea	
	have a metal coating coatings don't remove - I did not remove be mounted grounds sir through paint. Reins - All upper engine co bolt or nut. Exceptio plenum and all bolt/r - Note: 'left' & 'right' driver's seat and not knows this and only	are solid stainless g. But if you do run ye the eyelet coati ody paint from un- nee the eyelets har tall eyelets in sam ompartment groun n is the large/tall g nut head sizes are ' are indicated as i clooking at the fro mentioning when	s steel where they don' n into eyelets with tin/z ngs and just rust/corro der inner fender/firewa ve special teeth for goin e position as removed. ds have a 10mm heade ground stud to right of	zinc osion. all ing ed f ready t.

cleaned them anyhow. The grounds on the side of the engine block and underneath exhaust were fairly corroded externally due to being in the salt/rust belt.

#### Ground numbering:

There are approximately 13 ground locations listed and they're designated by a 'G' followed by a 3-digit number. Many flat ground straps are not even included in the ground location list but I'll try to include what has been found.

Numeric order will not always be followed in this write-up to group some area grounds together. I've typed in text for electrical components grounded on most diagrams and photos.

I realize I'm way too wordy, sorry, and most ground info can be gathered from the photos & diagrams. Component info is under the ground number/heading anyhow as well as on photos or diagrams.

Below is a chart for on ground numbers with locations. Since the exact locations are unclear additional info in blue text has been added.

GROUNDS

GROUND NUMBER	LOCATION
G100 (4.0L and Diesel)	Near Starter
G100 (4.7L)	Near Intake Plenum
G101	Near Battery (Right inner fender, far forward)
G102	Right Side of Engine (To rear of motor mount, 4.7)
G103	Right Side of Engine (To rear of motor mount, 4.0 & 4.7)
G104 (4.0L)	Right Rear of Engine (Near filler tube)
G104 (4.7L)	Left Side of Engine (To rear of motor mount on 04 4.7)
G105	Right Side of Engine (only found for diesel)
G106	Left Side of Engine Compartment (Left inner fender)
G107	Left Side of Engine Compartment (Left inner fender)
G108	Near Power Distribution Center (Right inner fender)
G200	Near Airbag Control Module (Left side cabin console)
G201	Near Airbag Control Module (Left side cabin console)
G300	Near Right Front Seat (Right side of passenger seat)
G301	Near Left Front Seat (Left side of drivers seat)

() = Additional info

Uni

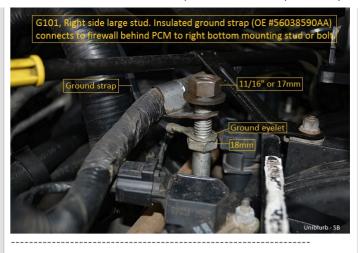
The individual grounds are below with images following the description.

**G100**. Near starter (4.0). No info found and a photo would help.

#### **G100**. Near intake plenum (4.7).

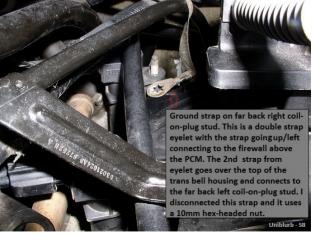
Conflicting info supplied by the FSM and needs verified. For now the large/tall stud to right of the intake/plenum will be designated as G100. This insulated ground strap is connected between the large stud to the backside of the PCM case on one of the left bolts/nuts. I thought this ground was attached to firewall behind PCM but it is not and just on the back of the PCM case.

The OE number is 56038590 for this strap but not sure if available. This is the only rubber insulated half-flat ground strap found. The air box on top of the plenum needs to be removed to clean this ground good.

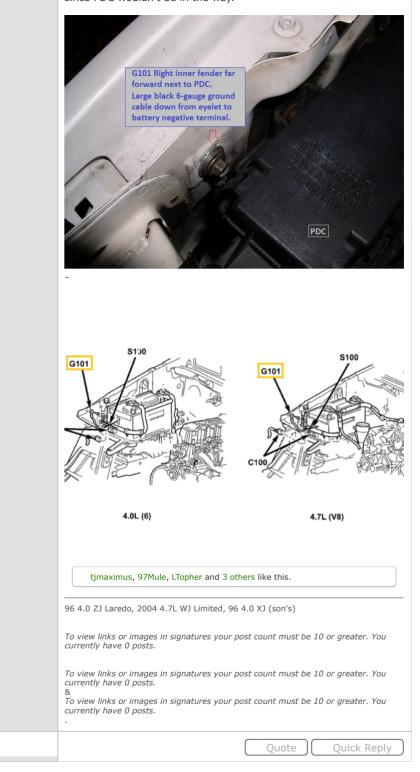


**Firewall ground to right/left rear coil-on-plug studs**: This flat braided metal ground strap connects to a firewall stud above PCM and goes to far back passenger side coil-on-plug stud/nut. This is a 'Y' strap eyelet on the right rear coil-on-plug stud. While one strap connects from the firewall the other strap goes over top of the transmission bell housing and connects to the rear far back driver's side coil-on-plug stud/nut. Again, air box on top of plenum needs removed to reach these far back grounds.





**G101.** Right inner fender, far forward (4.0 & 4.7) Large black 6-gauge ground cable direct from battery negative terminal. Real poor design on my 04 since I couldn't back the bolt all the way out since the head was jammed against the PDC case. I cleaned the front/back of eyelet and bolt threads with small wire brush with bolt tip still in place. I've noticed on other WJ's a hole further forward used for this ground which makes more sense since PDC wouldn't be in the way.



11-05-2017, 05:09 AM

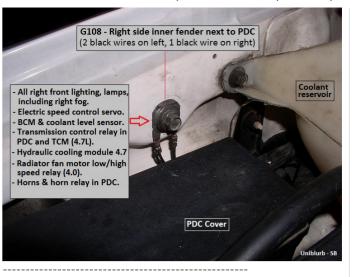
Thread Starter

post #2 of 61

Uniblurb Web Wheeler	WJ ground write-up continued.
藩 JeepForum Supporter	<b>G108</b> . Right side inner fender next to PDC. (3 bk wires, 2 eyelets) All right front lighting/lamps including fog, electric speed control servo, BCM, coolant level sensor, trans control relay in PDC & TCM (4.7), hydraulic cooling module (4.7), radiator fan motor low/high speed relay (4.0), horns & horn relay in PDC,

<u>2004 WJ</u> 🗢

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G106 & G107. Left inner fender with both connected by one bolt.

**G106**. All left front lighting/lamps including fog, right multifunction switch on steering column (black/white wire), wiper motor, front and rear washer pumps,



**G107**. Antilock brake controller (2 black/orange), only ground.

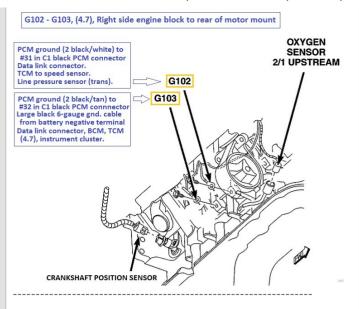
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**G102**. (4.7) Right side engine block directly to rear of motor mount.

PCM ground (2 black/white) to #31 in C1 black PCM connector. TCM to speed sensor, line pressure sensor (trans). Data link connector.

 $\ensuremath{\textbf{G103}}$  . (4.7) Right side engine block to rear of G102 next to mount.

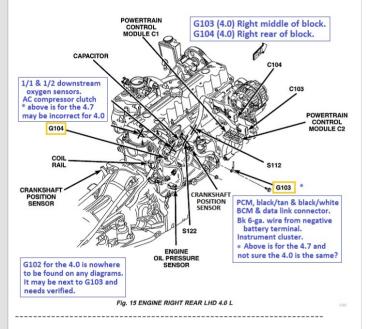
PCM ground (black/tan) to #32 in C1 black PCM connector. (above PCM grounds are critical to be good/clean) Black 6-gauge ground wire direct from battery negative terminal. Black/green: (Bus communications) data link connector, BCM, TCM (4.7), instrument cluster.



**G103**. (4.0L) Right engine block to rear of motor mount. (see components connected on diagram)

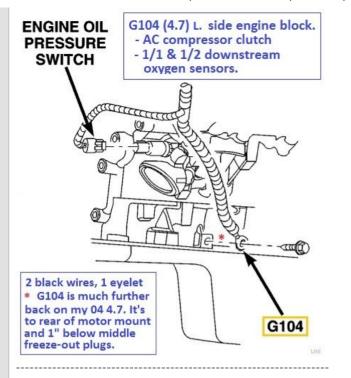
## G104. (4.0L) Right rear of engine block.

This ground appears to be near the transmission dipstick tube and see below figure.



**G104**. (4.7L) Left side of engine block. (2 black wires, 1 eyelet) A/C compressor clutch, 1/1 and 1/2 downstream oxygen sensors.

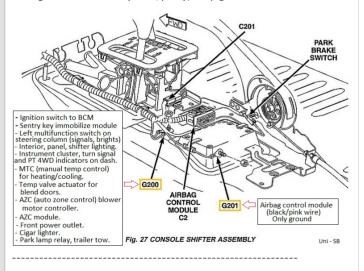
The below diagram shows this ground below the oil filter & oil pressure switch. This is incorrect on my 04 4.7. It's in the middle of the left side block, to rear of motor mount, and just 1" below one of the middle freeze-out plugs. Left body (not axle) needs to be jacked up to reach this ground from the underneath front.



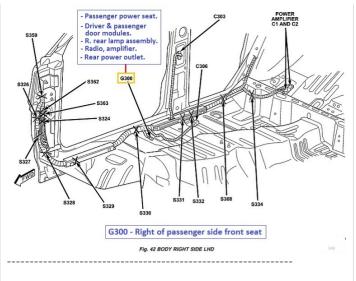
#### G200. Cabin console left of shifter assembly.

Ignition switch to BCM, sentry key immobilizer module, left multifunction switch on steering column (turn signals, hazards, bright lights), left/right heated seat switches, park lamp relay (trailer tow), interior lighting, shifter, panel lights, instrument cluster, turn indicators on dash, PT 4WD indicator, MTC (manual temp control, heating/cooling), temp valve actuator (MTC blend doors), AZC blower motor/controller, AZC module, front power outlet, cigar lighter.

**G201**. Cabin console left of shifter assembly. Airbag control module (black/pink), only ground.

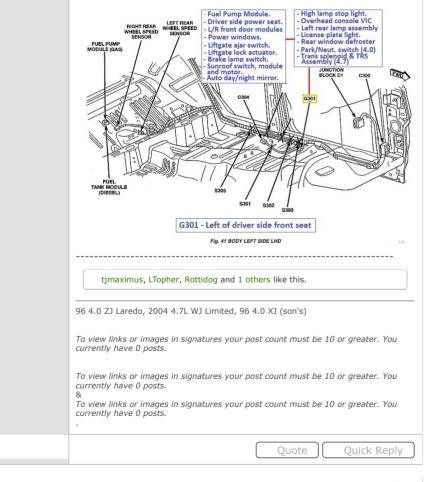


### **G300**. Right of passenger side front seat. Black wire. Passenger power seat, driver & passenger door module, right rear lamp assembly, radio, amplifier, rear power outlet.



#### G301. Left of driver side front seat.

Black wire: Fuel pump module, driver's power seat, driver and passenger door module, power windows, liftgate ajar switch, liftgate lock actuator, rear wiper motor, brake lamp switch, overhead console VIC, left rear lamp assembly, high-lamp stop light, license plate light, rear window defroster, sunroof (switch, motor, module), park/neutral switch (4.0), Trans solenoid & TRS assembly (4.7), Auto day/night mirror.



11-05-2017, 05:24 AM Thread Starter

Uniblurb

Web Wheeler

3 JeepForum Supporter

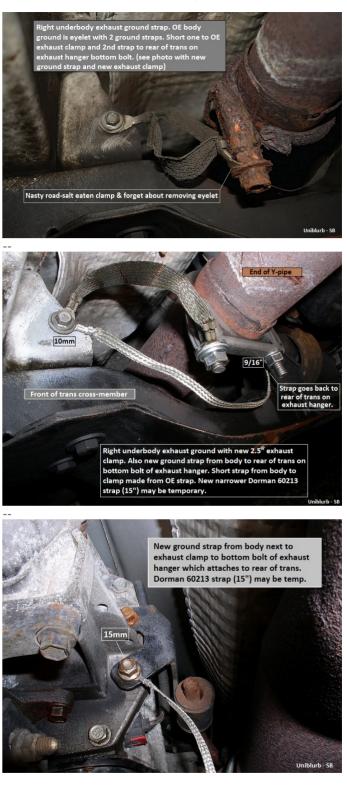
post #3 of 61

**Exhaust ground**, right side underbody at rear end of 'Y' pipe. This is a double-strap eyelet with flat ground straps with a bolt connection to the body. One of the straps attaches to the closest stud on the exhaust clamp under the nut. The other strap from body connects to the exhaust hanger bracket lower bolt/nut which is connected to the rear of the transmission.

As can be seen in the 3 below photos my exhaust clamp ground

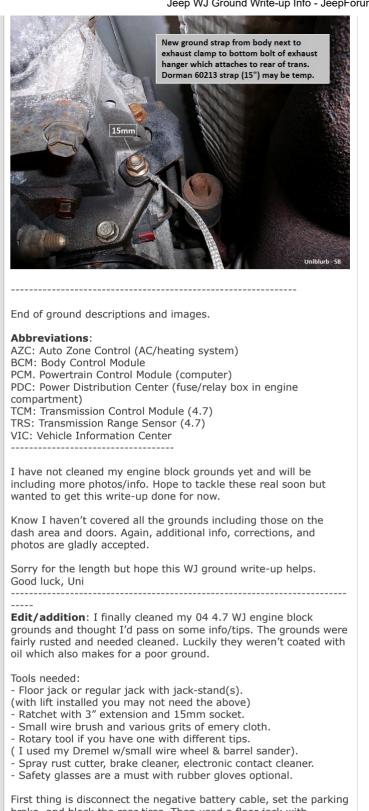
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was worthless. Made a shorter ground out of the OE ground strap, used a narrower new ground strap to rear exhaust bracket stud, and installed a new 2.5'' exhaust clamp.



<u>2004 WJ</u> 🗢

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brake, and block the rear tires. Then used a floor jack with wooden block on top and jacket it up on the right side far front unibody/frame just behind rear tie. Had it jacked up just until the right-side front tire was still touching the ground. Placed a jackstand behind the floor jack which was also on the frame. Lifting up just the right-side body also created enough room to work on the left/driver's side block ground.

Without a doubt it's easiest to go straight in under the front to reach the 3 block grounds. You'll just have to switch sides with the axle pumpkin being in the way. Not much fun working on your back or side but only way I could reach these grounds.

I sprayed PB blaster on all 3 grounds and thought they'd be a bear to get off as rusty as they were. I actually used a 3/8" drive

2015				
	breaker bar with short 15mm socket to break loose the right-rear G103 bolt and the left side G104 bolt. These ground bolts weren't all that tight and once broken loose a couple turns I could unscrew them with my fingers. The G102 bolt right behind the right-side motor mount was a different story. You have to use a 3" extension to get on this bolt and it was real tight. Finally, when I was able to break it loose it came out hard all the way. It almost appeared it had a gray thread-locker on the bolt threads but don't believe they'd want to do this in creating a good ground.			
	The 3 double-wire eyelets, along with battery negative cable eyelet, are all solid stainless steel so they shouldn't be that hard to clean w/small wire brush and some fine emery cloth. But since there are 4 eyelets, and 3 engine block grounding surfaces, I cleaned everything up with my Dremel with small wire-wheel.			
	It turned out all I did on the block ground surfaces was polish the rust. It's difficult to reach up in there and some real course emery cloth wasn't taking the rust off easily. Finally I put a course barrel sander tip on my Dremel and that rust dust was flying everywhere! Since I was at an angle I had to pull the barrel sander drum further off the front of the rubber holder to have the edge of it sand. I'm sure you can do all this by hand if you're willing to use some 'elbow grease'.			
	Enough of my wordiness and below are photos with text, labels and explanations. Again, I used the ground wire color-coding I found and cross-referenced it to schematics to match. I'm going to have to change some of my previous text on the diagrams of G102 and G103 on the left-side engine block.			
	One surprising thing is all 4 wires on the G102 eyelet behind the right-side motor mount go directly to the TCM (Transmission Control Module). And again, make sure G103, to the rear of G102 is good/clean. There's 2 PCM ground wires on G103 and wouldn't doubt those replacing PCM's may be due to a bad ground. I for one had a bad PCM ground take out 2 PCM's and 2 crank sensors to boot on my other Jeep before I found out what the problem was.			
	Here's the photos, hope I can squeeze all this in, and good luck! Attached Images			
	tjmaximus, cdplayer, LTopher and 6 others like this.			
	96 4.0 ZJ Laredo, 2004 4.7L WJ Limited, 96 4.0 XJ (son's)			
	To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.			
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	& To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.			
	Quote Quick Reply			
11-05-2017, 06:43	AM post #4 of 61			
<b>jfclk33</b> Registered User Join Date: Feb 2017 Posts: 51	Just wanted to say thanks for taking the time to do this write-up. There have been times that I've looked for some of this info, and it's really nice to have it all in one place.			
Posts: 51 Profile Gallery	It looks like you put a lot of time and effort into this and I definitely appreciate it!			

 Gallery
 definitely appreciate it!

 Classifieds
 operator707 likes this.

 Quote
 Quick Reply

11-05-2017, 07:09 AM

post #5 of 61

2010	
Administrator	Amazing. Added to the FAQ!
	Thanks for taking the time to do this!
	~Chris
	His: 2004 WJ - OME HD 'Kolak' Lift - To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.
	His: 1979 J-10 - 3" on 33s - To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.
2004 WJ Join Date: Jan 2011 Location: Springfield Posts: 10,338	His: 2009 Expedition His: 1978 F250 Custom - To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.
<ul> <li>▷ Profile</li> <li>▷ Gallery</li> <li>▷ Classifieds</li> </ul>	Hers: 2000 TJ Hers: 2010 Jetta
▶ <b>My Jeeps</b> Garage	To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.
	Quote: Originally Posted by <b>Matt</b>
	"You can't recycle tartar sauce."
	Quote: Originally Posted by <b>steve 80</b>
	Weird, I didn't realize you could use vomit as coolant.
	Quote Quick Reply
11-05-2017, 07:32	AM post #6 of 61
GhostJeepWJ Web Wheeler JeepForum Supporter	AWESOME WRITE-UP BUD!! Will be referencing all this info in the very near future. I have a few that I know need to be replaced. And will go over and clean all the remaining grounds. But seriously, thanks for all the time and research you have into this!! Feel like we should pay you!!lol
	@ChrisHager maybe this should be "stickied"
	Edit** Chris is faster then melol
	It's not the Destination so much as the Journey!! - Cpt. Jack Sparrow
<u>2002 WJ</u> ▽	2002 Grand Cherokee Overland 4.7 HO 2" IRO Spring Lift w/Bilstein 5100s 245/75/R17 Goodyear Armour Shield
Join Date: Nov 2016 Location: Halls of Valhalla Posts: 2,239 D Profile D Gallery Classifieds D My Jeeps	To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.
Garage	
	Quote Quick Reply
11-05-2017, 09:37	AM Thread Starter post #7 of 61
Uniblurb Web Wheeler	Thanks guys, appreciate it! Also thanks Chris for adding it to the FAQ's.
JeepForum Supporter	Luckilu Tim on incomplian on worked on this during measure of

 Image: TAQ's.

 Image: JeepForum Supporter

 Luckily I'm an insomniac so worked on this during many wee hours. Lol. And it didn't help there was a huge thunderstorm while posting which thought for sure would take out my internet.

 I'll add some more once I hit the block grounds.

 PS. thanks Ghost for not posting until I was done. I saw you liked it after the 1st post out of 3! Ha!

 2004 WJ ♥

 Join Date: Jan 2012

Join Date: Jan 2012 Location: Central Posts: 9,795 6/18

# n.com

2019	Jeep WJ Ground Wri	te-up Info - JeepF	
> Profile > Gallery	96 4.0 ZJ Laredo, 2004 4.7L WJ Limited, 96 4.0 XJ (son's)		
> Classifieds > My Jeeps	To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts. To view links or images in signatures your post count must be 10 or greater. You currently have 0 posts.		
	& To view links or images in signatures your post count must be 1 currently have 0 posts.	0 or greater. You	
	Quote	Quick Reply	
11-05-2017, 10:24	АМ	post #8 of 61	
GhostJeepWJ Veb Wheeler	@Uniblurb right on brotha! Was waiting til you fin get the rest up, have Chris delete all the comment Keep the informational stuff together. But againawesome job!!		
	<u>⊖e ∋⊙4⊝4⊙e ∋⊙</u>		
	It's not the Destination so much as the A	Journey!! -	
	2002 Grand Cherokee Overland 4.7 HO 2" IRO Spring Lift w/Bilstein 5100s 245/75/R17 Goodyear Armon	ur Shield	
2002 WJ ♡	To view links or images in signatures your post count mus You currently have 0 posts.	st be 10 or greater.	
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Location: Halls of Valhalla Posts: 2,239 Profile Gallery Classifieds My Jeeps Garage 11-05-2017, 12:04 Jniblurb Web Wheeler	PM Thread Starter Yeah Ghost, I probably shouldn't have crammed 8 into the middle section in case I add the block group going to take where they belong. But with only 3 photos in the last section I can alw at the end. Or may just move some of the last image.	post #9 of 61 photos w/info und photos I'm ays do an edit ges/info in the	
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11-06-2017, 08:29	PM post #11 of 61
97Mule Web Wheeler	You smart son of a gun!!! Good info for lots of guys on here with ele problems. Again great work
2002 WJ Join Date: Jul 2013 Location: Splendora Posts: 1,795 ▷ Profile ▷ Gallery ▷ Classifieds ▷ My Jeeps Garage	
	Quote Quick Reply

11-07-2017, 12:33	AM Thread Starter	post #12 of 61
Uniblurb Web Wheeler K JeepForum Supporter	Thanks guys and hope you find your trans problem Lol Mule, and maybe not smart but just lots or represent experience. 96 4.0 ZJ Laredo, 2004 4.7L WJ Limited, 96 4.0 XJ (son's) To view links or images in signatures your post count must be 10 currently have 0 posts.	ort writing
2004 WJ Join Date: Jan 2012 Location: Central Posts: 9,795 ▷ Profile ▷ Gallery ▷ Classifieds ▷ My Jeeps	<i>To view links or images in signatures your post count must be 10 currently have 0 posts.</i> & <i>To view links or images in signatures your post count must be 10 currently have 0 posts.</i>	2
	Quote	Quick Reply

11-07-2017, 06:53 AM

post #13 of 61

Irivera1342 Registered User 2000 WJ ♀ Join Date: Aug 2014 Location: deer park Posts: 115 ▷ Profile ▷ Gallery ▷ Classifieds ▷ My Jeeps	Again UNI awesome post i was starting to go back and forth between my neighbor and my other 4.7 WJ to see if i can find the missing or corroded ground straps, i did find the insulated ground on the stub very loose which probably was one of the culprits when i hit bump or pothole was triggering my limp mode for P1768. i need to focus on that circuit the most lol. i may just do what some have done is to run a ground wire straight to the relay i just need to find the write up about it.
	Quote Quick Reply

11-07-2017, 02:40 PM

post #14 of 61

Irivera1342 Registered User 2000 WJ ▽

Join Date: Aug 2014 Location: deer park Posts: 115 Profile Gallery

i think i possibly found the ground wire that actually goes to the socket #85 for the transmission relay, using UniBlurb awesome pictures and diagrams i was able to use another schematic to trace that wire from the harness all the way to where its is supposed to be bolt to the body, it appears that it was actually resting on the ground bolt and when i would drive or any jolt it would momentary disconnect thus possibly losing ground directly to the relay, if this is the case i can i further up on the harness connect it to another

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▷ Classifieds ▷ My Jeeps	grounding point like the other stud on the driver side of the engine block pretty much in the same spot just higher on the engine ?		
	ground G104 to the socket via harness passed the C102 harness by the firewall it turns black and yellow but from the ground point thru the harness it starts out *** solid black Attached Thumbnails 20171107_122645.jpg 20171107_122456.jpg Attached Files Relay and PCM schempdf (286.4 KB, 23 views)		
	Uniblurb likes this.		
	Quote Quick Reply		

11-07-2017, 07:32	PM Thread Starter	post #15 of 61
Uniblurb Web Wheeler JeepForum Supporter	Good find Irivera and real nice photos! Is that G1 your 2000 4.7 on the far back passenger side of than the left/driver's side block like my 04 4.7? In location info to the write-up.	the block rather
	I don't have the 2000 WJ FSM but have the 2001 for the 01 4.7 the same as mine, on the far forward driver's block under the oil filter adapter. And as actually mid-driver's side block on my 04 4.7.	ard side of
<u>2004 WJ</u> ▽	Can't see why you can't run that broken ground w to the tall/large stud to left of the driver's side of there aren't any other grounds on that stud anyh	the plenum. And
Join Date: Jan 2012 Location: Central Posts: 9,795 D Profile D Gallery D Classifieds D My Jeeps	I was going to wait until I cleaned my G104 on d to post a photo of it. I couldn't get a very good p ago since it's clear back in there but will post it a jack up the driver's side body to get to it. Here's photo of it with bolt half-hidden in the shadow. Attached Thumbnails	hoto of it a week nyhow. I'll likely
	G104, Driver side of block 04, 4.7, 2017-10-3	L, 700x936.jpg
	96 4.0 ZJ Laredo, 2004 4.7L WJ Limited, 96 4.0 XJ (son's)	
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