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# **BD Transmission Cooler**

Dodge (68RFE, 518, 47RH, 47RE & 48RE) Ford (All) & Chevy (Allison) Transmissions

P/N#	1030606-5/16
P/N#	1030606-3/8
P/N#	1030606-1/2
P/N#	1030606-5/8

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

## KIT CONTENTS

Please check to make sure that you have all the parts listed in this kit before you start the disassembly of your truck.

Transmissio				ooler Base Kit -	1030	605	
1	300601			1300602			0603-C
	5.75	C	500	000010000000000000000000000000000000000			
Cooler		L Brackets			Wiring	r Harness	
Qty: 1		Qty: 6		Q	ty: 1		
1100110	1100111	123011	6	1604104	1	110031	1130227
	0			T		0	
1/4 x 3/4" Bolts	1/4 Washers	1/4 Nyloc		5/16" x 1" Long Bolts		-lat Washers	5/16 Nyloc Nuts
Qty: 4	Qty: 8	Qty: 4	4	Qty: 6	Q	ty: 12	Qty: 6

1300130	1300131	1300132	1400113	1452821	1300604
Tie Wrap (Long)	Tie Wrap (Medium)	Tie Wrap (Small)	Insulated Clamp	Gear Clamp	Self- Threading Bolt
Qty: 5	Qty: 5	Qty: 5	Qty: 1	Qty:4	Qty:4

BD Engine Brake Inc.

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295 Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

November 2018	1030606 Transmission Cooler Instruction Manual (I-00213)			
1400134	1300620	1400142	1400135	
-10/-10 Jic Sweep	Temp Sensor	-10/1/2" Barb	-10 Jic/ 1/2"Hose	
Bend Fitting	180/160F	Sensor Adapter	90 Deg Fitting	
Qty: 1	Qty: 1	<b>Qty: 1</b>	Qty: 1	

3-520338-2	1300337	1607012	1300400
<u>I</u>			
Flag connector 14-	Mini Fuse	Ring Terminal	Ring Terminal 3/8"
16ga	Tapper	5/16" 10-12ga	10-12ga
Qty: 1	Qty: 1	Qty: 2	Qty: 2

5/16" Fitting Kit – 1030606-5/16					
1400128	1400107	1604054			
1/4" NPT / 5/16 Comp	1/4" NPT / 1/2" Barb	1/2" ID Hose			
Qty: 2	Qty: 2	Qty: 183″			

3/8" Fitting Kit – 1030606-3/8						
1400105	1400121	1604054				
3/8"NPT / 1/2" Barb	3/8" NPT / 3/8" Comp	1/2" ID Hose				
Qty: 2	Qty: 2	Qty: 183"				

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rember 2018	1030606 Transmission Cool			
1600034	16	500035	1604044	1604045
Bypass Tube		ass Tube		
Eliminator		minator	Washer	Washer
(Front)	<b>`</b>	Rear)		
Qty: 1		Qty: 1	Qty: 2	Qty: 2
			ly required on	4R100 Transmissions*
1/2" Fitting Kit	- 10300			
1400132		1400138	1400136	1604054
1/2" Comp /1/2"	Barb	1/2" Sleeve	1/2" Nut	1/2" ID Hose
Qty: 2		Qty: 2	Qty: 2	Qty: 183″
5/8" Fitting Kit	- 1030	606-5/8		
1400131		1400139	1400137	1604054
5/8" Comp / 1/2"	Barb	5/8" Sleeve	5/8" Nut	1/2" ID Hose

Vehicle Applications					
Year	Make	Application	Fitting Tube size		
1991-1999	Chevy	4L80	5/16" Tube		
1999-2000	Chevy	4L80	3/8" Tube		
1993-2012	Dodge (All)	518,47RH, 47RE, 48RE, 68RFE	1/2" Tube		
1994-1997	Ford	E40D	5/16" Tube		
1999-2002	Ford	4R100	3/8" Tube		
2003-2010	Ford	5R110	1/2" Tube		
2011-2014	Ford	6R140	1/2" Tube		
2001-2010	GM/Duramax	Allison 1000	5/8" Tube		

Qty: 2

Qty: 183"

Qty: 2

Qty: 2

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Optiona

018	1030606 Transmissior	Cooler Instruction Manual (I-00213)	
l Tempe	erature Sensors		
180	) ON / 160 OFF	200 ON / 185 OFF	
(	comes in kit)	(available separately)	
4	$\sum$		

1300620 (black wire leads) 1300621 (orange wire leads)

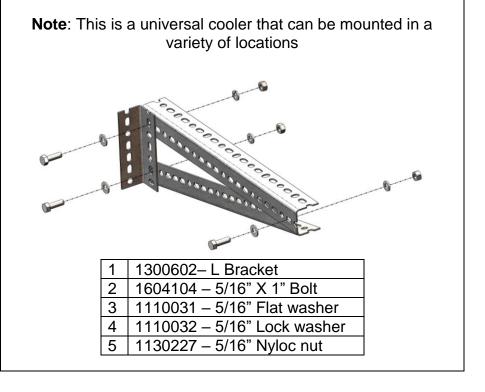
### Before you install your BD Transmission Cooler

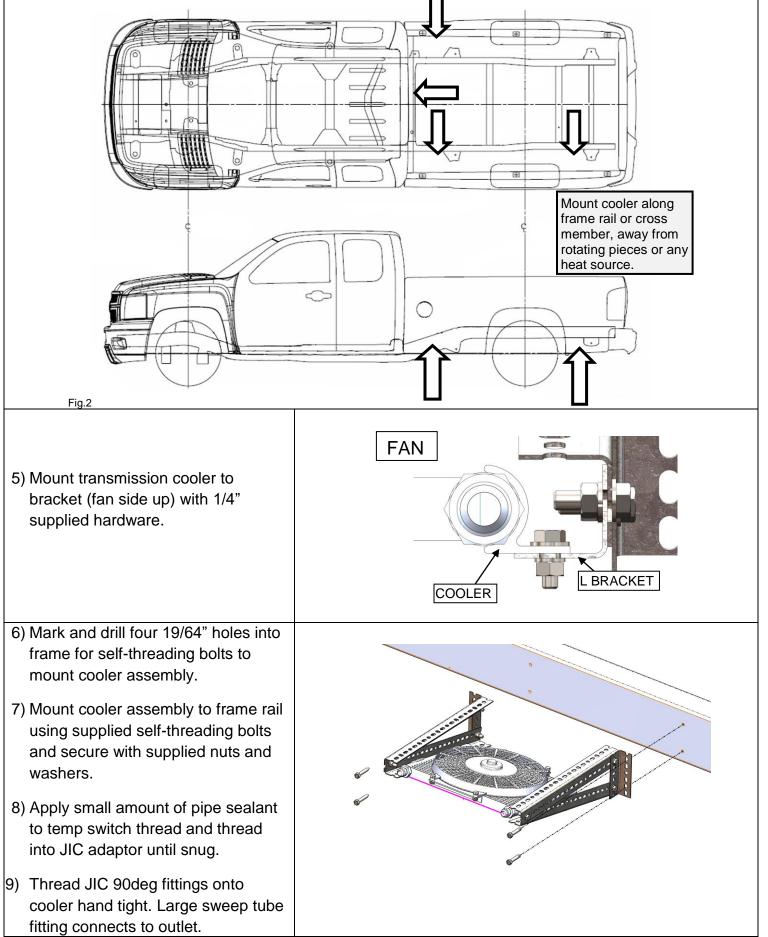
If using the BD transmission cooler in extreme cold temperatures a bypass valve is recommended.

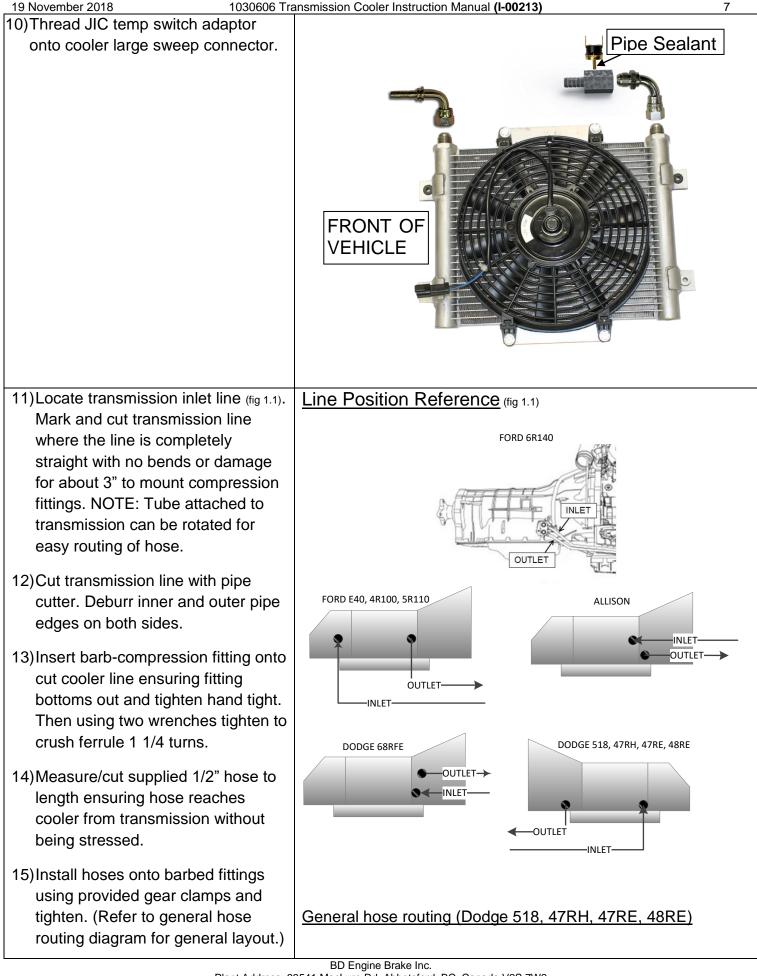
- Cooler fan is rated for 66% duty cycle Maximum. Exceeding the duty cycle may result in voiding the warranty.
- The temperature sensor is designed to turn on at 180°F / off at 160°F.

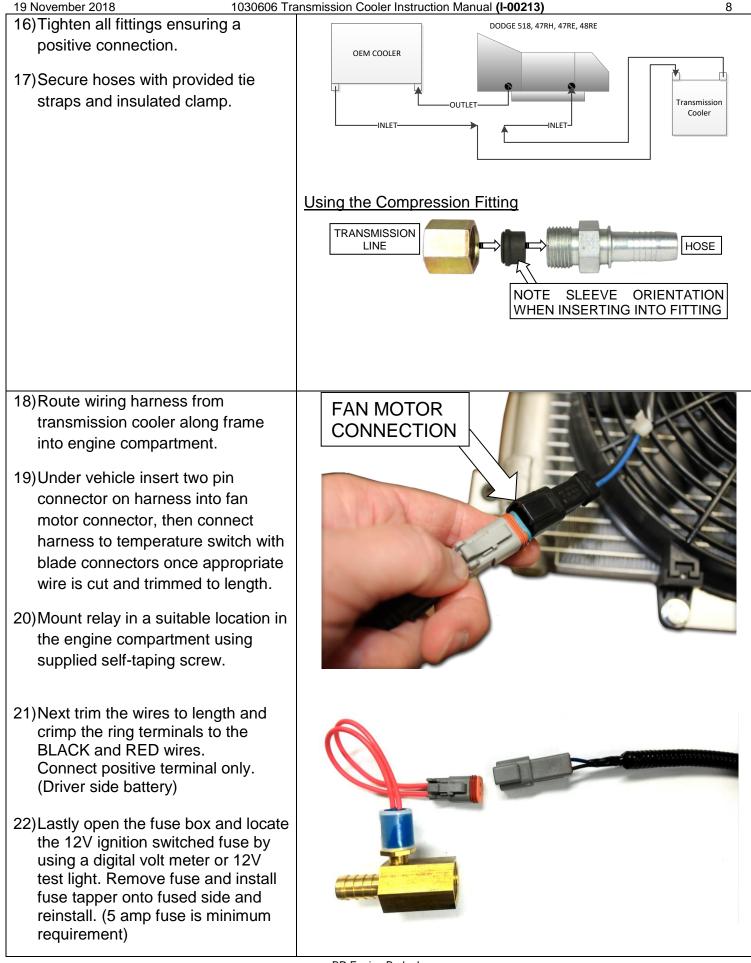
#### Installation

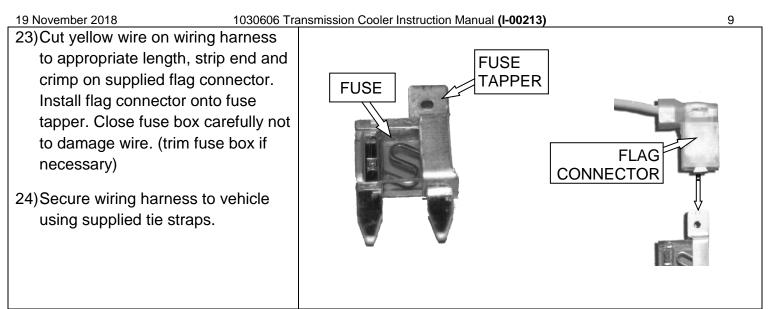
- 1) Block wheels of vehicle for safety and disconnect negative battery terminals (record radio settings before disconnecting the batteries).
- 2) Using a hoist lift vehicle to access transmission area.
- Locate suitable location to mount transmission cooler. Choose a location where there will be adequate airflow through the cooler. If the cooler is mounted against a surface ensure there is at least 1" of clearance behind the cooler and that it is away from heat sources, rotating parts and debris.(fig.2)
- 4) Assemble L brackets and 5/16" hardware to mount the transmission cooler to the frame rail. Trim bracket pieces where necessary, deburr sharp edges and paint areas that are exposed to prevent corrosion.









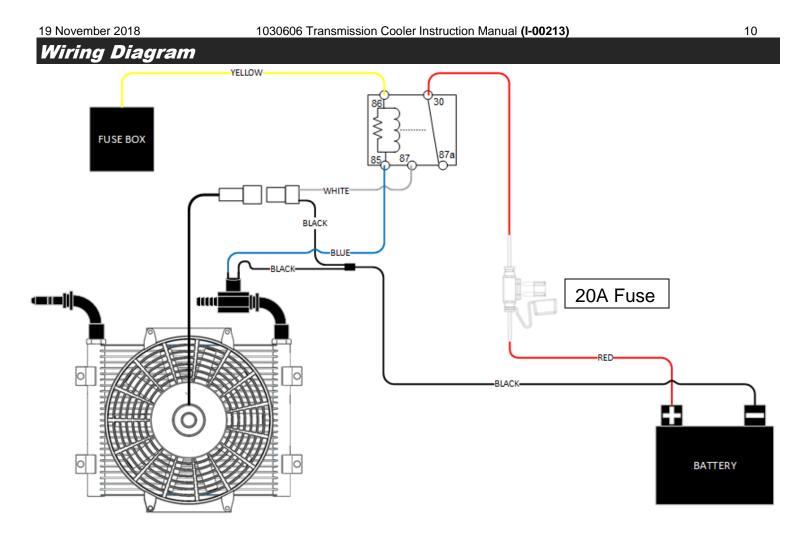


25)Reconnect negative battery terminal with black ring terminal from harness.

26)Start engine, shift through gears manually and check fluid level. Top up fluid with appropriate fluid type. (Refer to table below)

Application	Oil Type
Ford E40D & 4r100	Mercon V
Ford Torqshift 5r110	Mercon SP
All Dodge's (518, 47xx, 48re, 68rfe)	Mopar ATF +4
GM Allison	Dexron VI or Transynd

27) Remove wheel blocks and road test vehicle. Recheck fluid level once vehicle reaches operating temperature.



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