

V-Force Wiring Pin Outs**Part # 68021, 68022, 68023****BUICK**

<u>Year</u>	<u>Model</u>	<u>Engine</u>	TPS Wire <u>Color</u>	TPS <u>Location</u>	MAP/ MAF Wire <u>Color</u>	MAP/ MAF <u>Location</u>	
2005-2008	LACROSSE	3.6L	DK GRN	1	ORG/BLK	L	
2005-2006	LACROSSE	3.8L	LT GRN	1	YELLOW	L	(**)
2007-2008	LACROSSE	3.8L	DK BLUE	1	LT-GREEN	O	
1996	REGAL	3.1L	DK BLUE	1	LT-GREEN	A	
1996	REGAL	3.8L	DK BLUE	1	LT-GREEN	A	
1997	REGAL	3.1L	DK BLUE	1	LT-GREEN	A	
1997	REGAL	3.8L 1	DK BLUE	1	LT-GREEN	B	
1997	REGAL	3.8L K	DK BLUE	1	LT-GREEN	C	
1998-2005	REGAL	3.8L 1	DK BLUE	1	LT-GREEN	B	
1998-2005	REGAL	3.8L K	DK BLUE	1	LT-GREEN	D	
2005-2007	RENDEVOUS	3.4/3.5L	DK BLUE	1	LT-GREEN	G	
2005-2006	RENDEVOUS	3.6L	DK GRN	1	ORG/BLK	L	

CHEVROLET

<u>Year</u>	<u>Model</u>	<u>Engine</u>	<u>Color</u>	TPS <u>Location</u>	MAP/ MAF Wire <u>Color</u>	MAP/ MAF <u>Location</u>	
1996-1997	CAVALIER	2.2L/2.4L	DK BLUE	1	LT-GREEN	E	
1998-2002	CAVALIER	2.2L	DK BLUE	1	LT-GREEN	F	
1998-2002	CAVALIER	2.4L	DK BLUE	1	LT-GREEN	F	
2002-2005	CAVALIER	2.2L	DK BLUE	1	LT-GREEN	E	
2005-2010	COBALT	2.2L	DK GRN	1	LT-GREEN	G	
2006-2010	COBALT	2.4L	DK GRN	1	LT-GREEN	A	
1996	CORSICA	2.2L	DK BLUE	1	LT-GREEN	A	
1996	CORSICA	3.1L	DK BLUE	1	LT-GREEN	B	
2011-2012	CRUZE	1.4L					
2011-2012	CRUZE	1.8L	BRWN/GRN	1	GRN/WT	N	
2006-2011	HHR	2.2L/2.4L	DK GRN	1	LT-GREEN	A	
2000-2005	IMPALA	3.4L/3.8L	DK GRN	1	LT-GREEN	H	
2006-2009	IMPALA	3.5L/3.9L	DK GRN	1	ORG-BLACK	A	
2010-2011	IMPALA	3.5/3.9L	DK GRN	1	LT-GREEN	A	
2012	IMPALA	3.6L					
2006-2009	IMPALA	5.3L	DK GRN	1	LT-GREEN	M	
1996-2000	LUMINA	3.1L/3.4L	DK BLUE	1	LT-GREEN	A	
1999-2000	LUMINA	3.8L	DK BLUE	1	LT-GREEN	G	
2004-2006	MALIBU	2.2L	DK GRN	1	LT-GREEN	G	
2007-	MALIBU	2.2L	DK GRN	1	LT-GREEN	A	
1997-1999	MALIBU	2.4L	DK BLUE	1	LT-GREEN	G	
1997-1999	MALIBU	3.1L	DK BLUE	1	LT-GREEN	B	
2000-2003	MALIBU	3.1L	DK BLUE	1	LT-GREEN	A	
2004-2006	MALIBU	3.5L	LT BLUE	1	LT-GREEN	A	

Continued

2006-2007	MALIBU	3.9L	DK GRN	1	LT-GREEN	A
2007-2008	MALIBU	3.5L	DK GRN	1	LT-GREEN	A
2008-2012	MALIBU	2.4/3.6L	DK GRN	1	LT-GREEN	A
1996-1999	M-CARLO	3.1L/3.4L	DK BLUE	1	LT-GREEN	A
2000-2005	M-CARLO	3.4L	DK BLUE	1	LT-GREEN	H
2000-2005	M-CARLO	3.8L	DK BLUE	1	LT-GREEN	A
2006-2009	M-CARLO	3.5L/3.9L	DK GREEN	1	LT-GREEN	A
2012	SONIC	1.4L				
2012	SONIC	1.8L	BRWN/GRN	1	GRN/WHT	O

OLDSMOBILE

<u>Year</u>	<u>Model</u>	<u>Engine</u>	<u>Color</u>	<u>TPS</u> <u>Location</u>	<u>MAP/</u> <u>MAF Wire</u> <u>Color</u>	<u>MAP/</u> <u>MAF</u> <u>Location</u>
2000-2003	ALERO	2.4L	DK BLUE	1	LT-GREEN	J
2000-2004	ALERO	3.4L	DK BLUE	1	LT-GREEN	I
1996-1997	AURORA	4.0L	DK BLUE	1	LT-GREEN	B
1998-1999	AURORA	4.0L	DK BLUE	1	LT-GREEN	I
2001-2003	AURORA	3.5L	DK BLUE	1	LT-GREEN	I
2001-2003	AURORA	4.0L	DK BLUE	1	LT-GREEN	I
2000-2003	INTRIGUE	3.5L	DK BLUE	1	LT-GREEN	K

PONTIAC

<u>Year</u>	<u>Model</u>	<u>Engine</u>	<u>Color</u>	<u>TPS</u> <u>Location</u>	<u>MAP/</u> <u>MAF Wire</u> <u>Color</u>	<u>MAP/</u> <u>MAF</u> <u>Location</u>
1996-1997	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	G
1996-1997	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	A
1998	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	I
1999	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	B
1999	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	A
2000-2005	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	I
2000-2005	BONNEVILLE	3.8L	DK BLUE	1	LT-GREEN	G
2004-2005	BONNEVILLE	4.6L	DK BLUE	1	LT-GREEN	E
2007-2009	G5	2.2L	DK GRN	1	LT-GREEN	G
2007-2009	G5	2.4L	DK GRN	1	LT-GREEN	G
2006-2009	G6	2.4L	DK GRN	1	LT-GREEN	J
2006-2009	G6	3.5,3.6,3.9L	DK GRN	1	LT-GREEN	A
1996-1997	GRAND AM	2.4L	DK BLUE	1	LT-GREEN	G
1996-1997	GRAND AM	3.1L	DK BLUE	1	LT-GREEN	I
1998	GRAND AM	2.4L/3.1L	DK BLUE	1	LT-GREEN	J
1999-2005	GRAND AM	2.2L/2.4L	DK BLUE	1	LT-GREEN	J
1999-2006	GRAND AM	3.4L	DK BLUE	1	LT-GREEN	I

Continued

1996-1997	GRAND PRIX	3.1L/3.4L	DK BLUE	1	LT-GREEN	A
1997-1999	GRAND PRIX	3.8L	DK BLUE	1	LT-GREEN	B
1997-1999	GRAND PRIX	3.8L	DK BLUE	1	LT-GREEN	A
1998-2003	GRAND PRIX	3.1L	DK BLUE	1	LT-GREEN	B
2000-2005	GRAND PRIX	3.8L	DK BLUE	1	LT-GREEN	B
2000-2005	GRAND PRIX	3.8L	DK BLUE	1	LT-GREEN	D
2006-2008	GRAND PRIX	3.8L	DK BLUE	1	LT-GREEN	C
2006-2008	GRAND PRIX	5.3L	DK BLUE	1	LT-GREEN	B
2007-2009	SOLSTICE	2.0L	DK GRN	1	LT-GREEN	J
2006-2009	SOLSTICE	2.4L	DK GRN	1	LT-GREEN	J

TPS LOCATION

1 ON SIDE OF THROTTLE BODY, OPPOSITE THROTTLE LINKAGE (IF EQUIPPED)

MAP LOCATION

- A ON TOP OF ENGINE, ON INTAKE PLENUM
- B TOP REAR OF ENGINE, ABOVE VALVE COVER
- C TOP OF ENGINE RIGHT SIDE OF INTAKE MANIFOLD
- D TOP OF ENGINE IN FRONT OF INTAKE MANIFOLD
- E MOUNTED ON TOP OF THROTTLE BODY
- F MOUNTED ON SIDE OF THROTTLE BODY
- G TOP FRONT OF ENGINE
- H ON RIGHT REAR OF INTAKE PLENUM
- I ON TOP RIGHT SIDE OF ENGINE
- J LEFT SIDE OF ENGINE
- K TOP REAR OF ENGINE,BY HROTTLE BODY
- L IN AIR INTAKE TUBE
- M ON AIR CLEANER DUCT
- N ON THE FRONT CENTER OF THE INTAKE MANIFOLD
- O ON THE TOP OF THE INTAKE MANIFOLD, ON THE RIGHT SIDE

FOOTNOTES:

(**) INDICATES THE CONNECTION IS AT THE MAF (MASS AIR FLOW) SENSOR
ALL OTHERS CONNECT TO THE MAP (MANIFOLD ABSOLUTE PRESSURE) SNSOR

Optional Oxygen Sensor Connection**Vehicle/Connector type**

Acura/Honda 4 Wire Connector
Alfa Romeo 3 Wires
Audi 3 Wires
BMW 3 Wires
BMW 4 Wires
Chrysler 3 Wires
Chrysler 4 Wires
Chrysler Import 4 Wires
Ford 3 Wires
Ford 4 Wires
Geo 4 Wires
GM 2 Wires
GM 3 Wires
GM 4 Wires
Isuzu 3 Wires
Isuzu 4 Wires
Kia 3 Wires
Lancia 3 Wires
Mazda 3 Wires
Mazda 4 Wires
Mercury 3 Wires
Mercury 4 Wires
Mitsubishi 4 Wires
Nissan 3 Wires
Nissan 4 Wires
Subaru 3 Wires
Suzuki 4 wires

02 Sensor Signal**Wire Color**

Black
Black
Black
Black
Black
Black
Black
Black,Blue or Yellow
Black
Black
Black
Black
Black orPurple
Black orPurple
Blue
Blue
Black
Black
Black
Black
Black
Black
Black,Blue or Yellow
Black
Black
Black
Black

AP020 AP013 AP036 | Dash or Console 3M™ Adhesive Mounting Disc

**Package Contents:**

(1) Self-adhesive dash or console pedestal mounting disc
(1) Alcohol cleaning pad

No Tools Required for installation.

AP020 Disc
(Ø 90 mm)

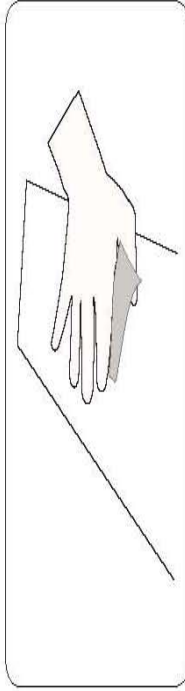
AP013 Disc
(Ø 80 mm)

AP036 Disc
(Ø 70 mm)

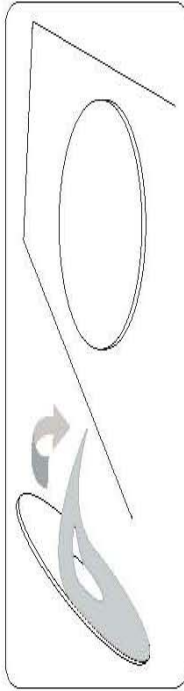
Dash or Console Mounting Instructions

Step 1. Choose a suitable location for disc (and pedestal) installation. Do not place mount in or near an air bag deployment zone or where it will obstruct view of the road or hinder vehicle operation.

Step 2. Clean the dash or console surface area thoroughly with the included alcohol pad. Allow the area dry before applying the mounting disc.



Step 3. Remove the paper backing of the disc and place on the cleaned surface. Press the top of the disc down firmly to allow the adhesive to stick to the surface. Allow 24 hours for the adhesive to cure to the surface before applying any pressure.



Safety Precautions

Follow all manufacturer safety guidelines for operating your device. Failure to practice safe usage of GPS device while driving may result in damage, injury, or death. Do not install Arkon products over an air bag cover or within the air bag deployment zone.

Arkon is not responsible for any damages caused to your car, your device, or yourself due to the installation or use of this pedestal mount.

GN014-SBH | Mini Windshield Suction Swivel Mount



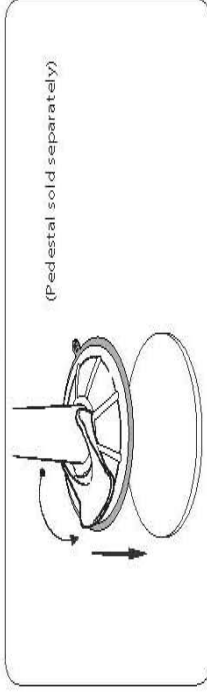
GN014-SBH
Windshield Mount with
Swivel Ball Head Assembly

Patent Pending

No Tools Required for installation.

***Note:** Adhesive disc is intended for semi-permanent installation and one time application. If disc needs to be removed, please see the removal instructions below.

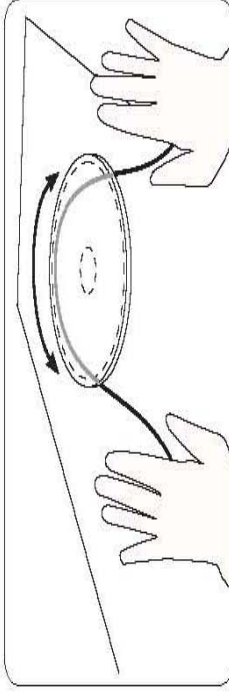
Step 4. Place the suction cup of the pedestal (sold separately) firmly down on the center of the mounting disc and lower the securing lever.



Disc Removal Instructions

Step 1. Prepare the surface around the disc by applying a generous amount of rubbing alcohol or similar adhesive removal product to the area with a cotton swab. Let the liquid saturate the adhesive area for about a minute.

Step 2. Take a long piece of dental floss in each hand and slowly work back and forth at the base of the adhesive disc. Gently use the dental floss to cut the adhesive from the dash or console until the black plastic disc is removed.



Step 3. If the sticky adhesive area breaks apart or does not come off completely, re-apply a small amount of alcohol (or adhesive removal liquid) and carefully lift off the remaining area by hand.



The Mobile Mounting Specialists™

Consumer Hotline:

USA (800) 841-0884

INT'L (626) 254-3005

Monday - Friday 9am-5 pm, PST

www.arkon.com

Arcadia, CA 91006 USA

Designed in USA | Made in Taiwan

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Package Contents:

- (1) GN014 - Mini windshield mount
- (1) Swivel ball head assembly with dual T-tab pattern adapter plate and tightening ring.

Compatible with:

- All Arkon dual T-tab pattern phone cradles and adapter plates
- Most Garmin 17mm ball connections. (See website for full list.)

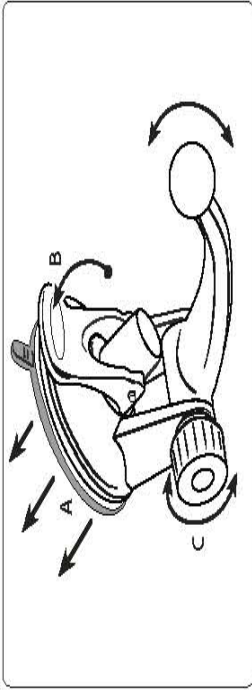


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! Do not place mount in or near an air bag deployment zone or where it will obstruct view of the road.

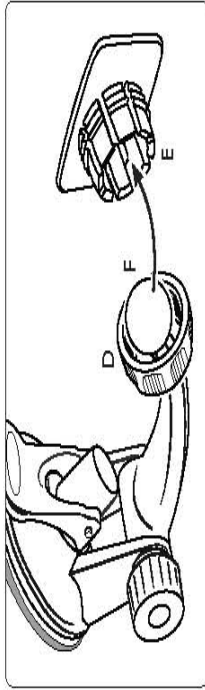
Windshield Mounting

- Step 1.** Find a safe location on the interior of the vehicle's windshield to mount the pedestal. Firmly push the suction base (A) against the windshield and flip the base lever down (B) to the locked position. See diagram below.
- Step 2.** Adjust the angle of the pedestal arm by tightening the angle adjustment knob (C) at the base to the desired angle.



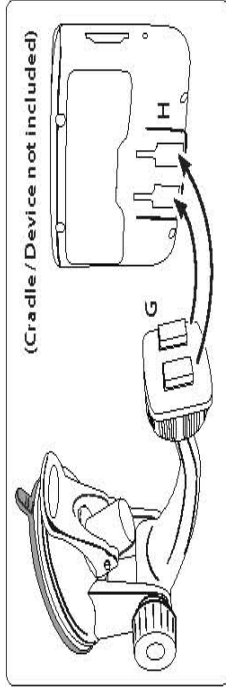
Swivel Ball Head Assembly Attachment

- Step 1.** Slip the tightening ring (D) over the pedestal ball. Snap the dual-T head adapter plate (E) on to the pedestal ball (F). Screw the tightening ring over the adapter plate until securely holding the plate. Adjust the angle as needed.



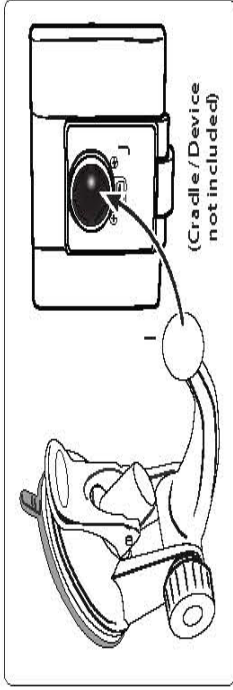
Attach Cradle or Device to Pedestal

- Step 1.** To attach your cradle or device (not included, sold separately) to the dual T-head, insert the dual T-tabs (G) into the dual T-slots (H) on the back of the cradle or device.



Attaching a Garmin Device to Pedestal

- Step 1.** Do not attach the swivel ball head assembly. Attach your Garmin device (not included, sold separately) to the ball head by firmly inserting the ball head (I) into the cavity (J) in the back of the device.



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Safety Precautions

Follow all manufacturer safety guidelines for operating your device. Failure to practice safe usage of GPS device while driving may result in damage, injury, or death. Arkon is not responsible for any damages caused to your car, your device, or yourself due to the installation or use of this pedestal mount.

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USA (800) 841-0884

INT'L (626) 254-9005

Monday - Friday 9am - 5pm, PST

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Arcadia, CA 91006 USA

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