



# FRONT PARK-SENSE

RETRO FIT



## PLEASE READ BEFORE YOU START

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

INCLUDED PARTS	QTY	REQUIRED TOOLS
Drilling Templates	4	Common Hand Tools Painters Tape Center Punch 1/8" Drill Bit 1 1/4" Step Bit Rust Preventative Black RTV "24-hr cure time"

### ADDITIONAL REQUIRED PARTS:

Original front and rear park assist module (that came with the truck).

New lengthened front wiring harness (highly recommended). AEV PN: AEV30301049

NOTE: 1500 owners need to purchase HD bezels from Mopar. QTY 2 Outboard bezels (M-5VS87ZZAA) and QTY 4 Inboard bezels (M-5VS88ZZAA).



1. Cut out paper templates along dotted lines and tape where instructed.  
NOTE: Cut along dotted line that corresponds with whether the fog light bezels have been installed.
2. Ensure surface is clean and dry.
3. Align templates to specified locations using locating points provided on templates. For successful installation ensure all points align properly to designated locators.

NOTE: Locating points to be used vary by vehicle set up. "Short corner" and "standard corner" in sensor locating circles specify two different locations for the outermost sensor depending on bumper corner length. Trucks with AEV Highmark Fender Flares (40" tire kits) will have shorter bumper corners and therefore should use the sensor location labeled "short corner".

4. Tape template down in multiple locations to ensure it does not move (fig. 1).

NOTE: Failure to align template properly may result in drilling too close to brackets inside the bumper and therefore make installing the sensors impossible.



Figure 1

5. Use a center punch to mark where the cross-hairs designate to drill. Depending on your bumper's corner ONLY PUNCH ONE OF THE TWO outside holes designated by "short corner" and "standard corner".
6. Remove templates and drill 1/8-inch pilot holes.
7. Apply painters' tape on bumper surfaces in close proximity to pilot holes. This will help ensure that the bumpers finish will not be scratched by burrs while drilling to the final dimension.
8. Carefully drill holes to a final size of 1.25-inches using a step bit.
9. Remove any rough edges or burrs if necessary and apply a rust preventative to the bare metal.



10. Clean bezel with alcohol then install appropriate bezel (IB to center section, OB to outer most hole locations) into each bumper hole being sure to follow the orientation in Figure 2.

NOTE: Note that the notches shown in the installation guide won't be on your bumper. As a result, it's crucial that the bezels are installed in the proper orientation consistent with Figure 2. This means the large notches of the bezel should be horizontal to the ground resulting in the later installed sensor connectors also being horizontal to the ground.

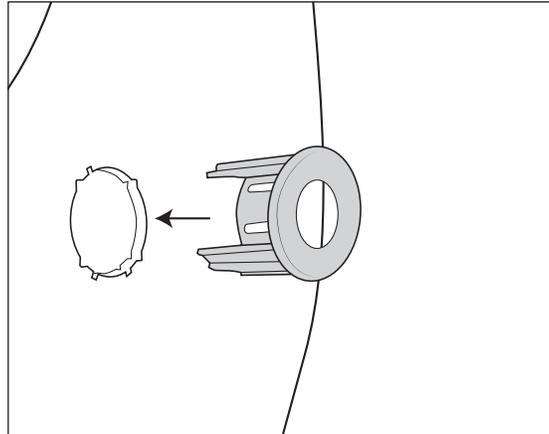


Figure 2

11. Use painters' tape to secure the bezels to the bumper making sure they rest flush.

NOTE: It is important that the bezel sits flush with the bumper face for proper functionality. If flush fit can't be obtained, it is permissible to have minor separation between the bumper and sensor at the bottom.

12. Once sensor bezels have been properly located, use black RTV to secure them into place from the back-side of the bumper face. **Allow RTV to cure overnight** to ensure bezels do not move during further steps.

NOTE: Be cautious to avoid getting RTV on the showing surface of the bumper.

13. Install sensors into the bezels from the back side. Note the orientation of the sensors, the connector end should point in the directions shown (fig.3).

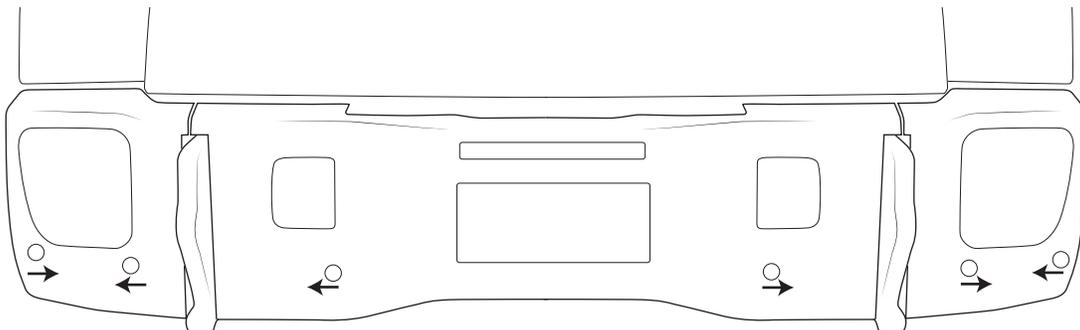


Figure 3



14. Install locking clip onto back of bezel (fig. 4).

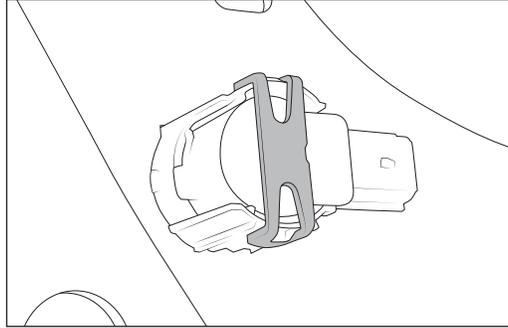
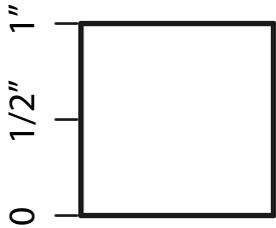


Figure 4

15. Connect the sensor harnesses and install front and rear park assist module. The wiring harness for the sensors will need to be lengthened and it is highly recommended that you purchase a new lengthened harness from AEV (PN: AEV30301049).

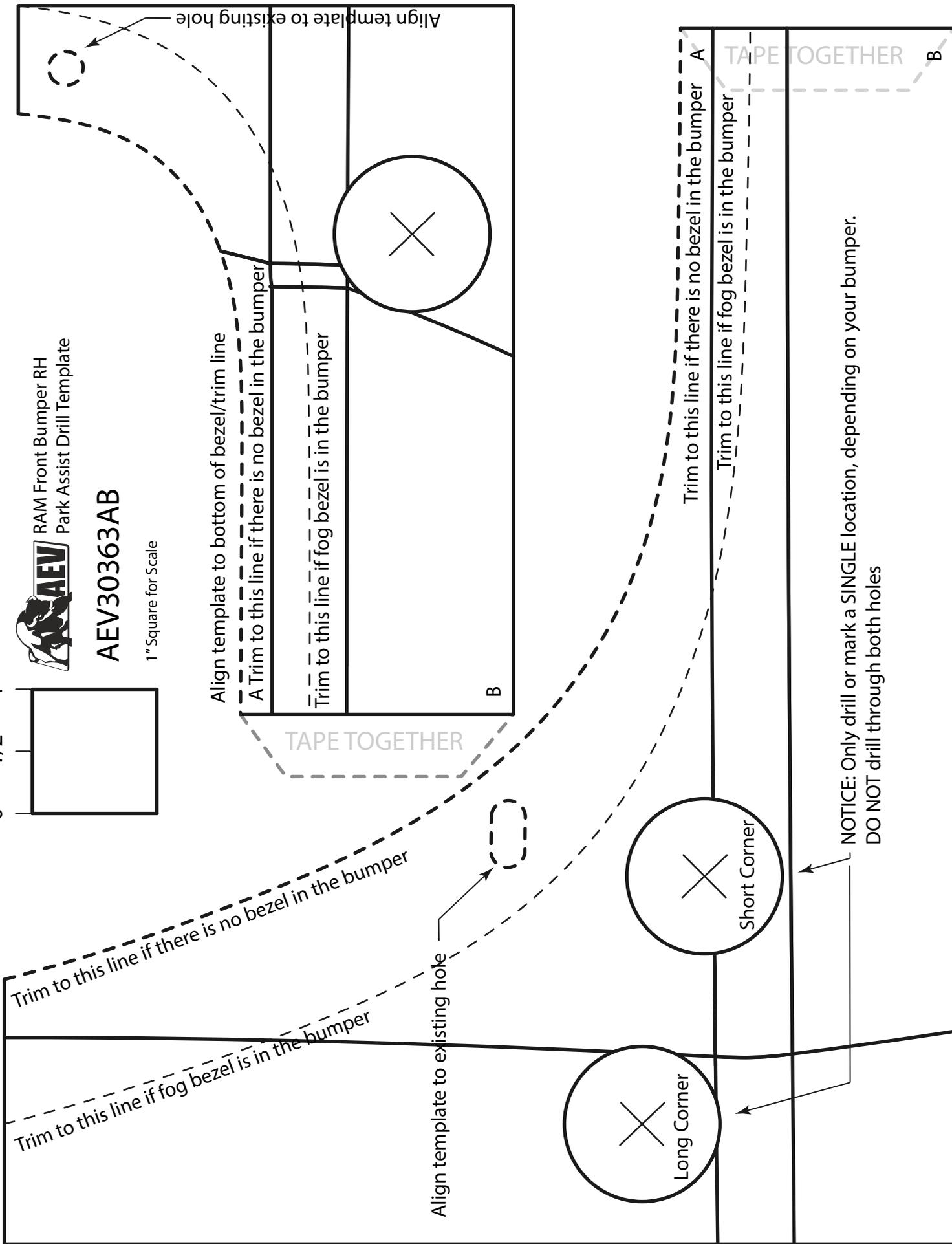
NOTE: When your AEV RAM front bumper was purchased the installation guide recommended swapping to a rear only park assist module (to disable the front park sensors). Therefore, it is important to replace the rear only module with the original **Front And Rear Park Assist Module**. If truck was not originally purchased with front park assist, additional wiring and dealer programming will be required.



RAM Front Bumper RH  
Park Assist Drill Template

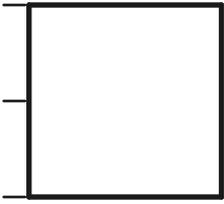
AEV30363AB

1" Square for Scale



NOTICE: Only drill or mark a SINGLE location, depending on your bumper.  
DO NOT drill through both holes

0 1/2" 1"



RAM Front Bumper LH  
Park Assist Drill Template

AEV30362AB

1" Square for Scale

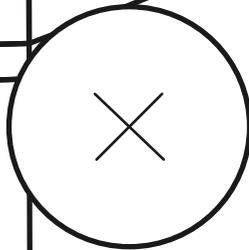
TAPE TOGETHER

Align template to bottom of bezel/trim line

Trim to this line if there is no bezel in the bumper A

Trim to this line if fog bezel is in the bumper

B



Align template to existing hole

Align template to existing hole



Long Corner



Short Corner

A Trim to this line if there is no bezel in the bumper

Trim to this line if fog bezel is in the bumper

TAPE TOGETHER

B

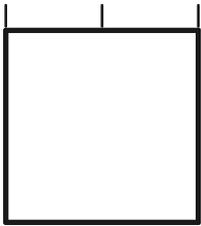
NOTICE: Only drill or mark a SINGLE location, depending on your bumper.

DO NOT drill through both holes

Trim to this line if fog bezel is in the bumper

Trim to this line if there is no bezel in the bumper

0 1/2" 1"



# RAM Front Park Assist Center

## AEV30364AB

### 1" Square for Scale

