



## ASSEMBLY INSTRUCTIONS

- Congratulations on the purchase of your Nordic Auto Plow - a truly unique solution (patent pending) to driveway snow removal.
- Properly assembled and used, the Nordic Auto Plow makes time consuming, back breaking manual snow removal a thing of the past!
- The Nordic Auto Plow was specifically designed and engineered for removal of snow in YOUR driveway. It is NOT to be used commercially, or for any type of street snow removal.
- See warranty and legal disclaimer (attached).
- Please read through the entire assembly sequence before beginning, it will help facilitate assembly. Estimated time for assembly: 30 minutes.
- Follow the assembly instructions carefully so your finished Nordic Auto Plow will be up to the snowiest task.
- Visit [nordicauto.plow.com](http://nordicauto.plow.com) for assembly videos and viewing the Nordic Auto Plow in action.
- Attachment of the Nordic Auto Plow to your vehicle is quick and safe, and storage is a snap.
- Be sure to keep these instructions on file for future reference and use if necessary.



Nordic Auto Plow LLC  
771 W. North Ave.  
West Chicago IL 60185

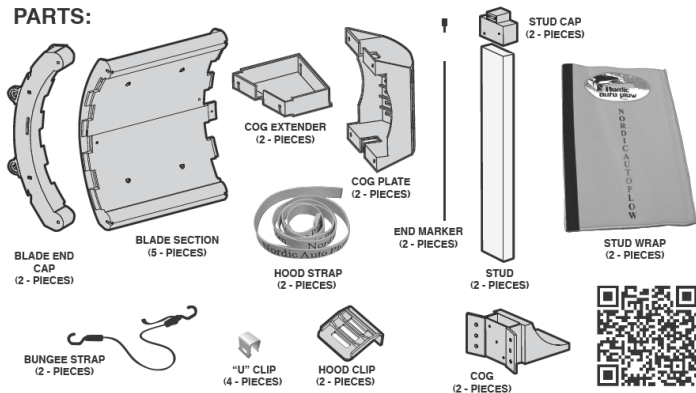
Phone for customer service: 888-662-PLOW (7569)

E-mail: [support@nordicauto.plow.com](mailto:support@nordicauto.plow.com)

Website: [nordicauto.plow.com](http://nordicauto.plow.com)

866-941-6577 (Fax)

## PARTS:



## HARDWARE:

NOTE: HARDWARE FOR TRUCK ADAPTER KITS IS INCLUDED IN A SEPARATE BAG (SHOWN IN THE TRUCK ADAPTER SECTION).



1/4-20 x 1" PHILLIPS TRUSS HEAD BOLTS (12 - PIECES)

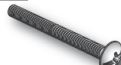
USED IN STEP(S):

2 8



1/4-20 x 1-1/2" PHILLIPS TRUSS HEAD BOLTS (8 - PIECES)

12



1/4-20 x 3" PHILLIPS TRUSS HEAD BOLTS (4 - PIECES)

4



1/4-20 x 1" ELEVATOR BOLTS (8 - PIECES)

10



1/4 - 20 KEEPS NUTS (32 - PIECES)



1/4" WASHERS (40 - PIECES)

2 4 8  
10 12



#10 - 24 X 3/4" PHILLIPS PAN HEAD SCREWS (4 - PIECES)

6



#8 x 3/4" PHILLIPS FLAT HEAD SHEET METAL SCREWS (14 - PIECES)

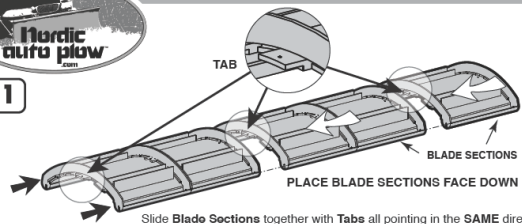
7

## REQUIRED TOOLS:

7/16" (11mm.) WRENCH - #2 PHILLIPS HEAD SCREWDRIVER

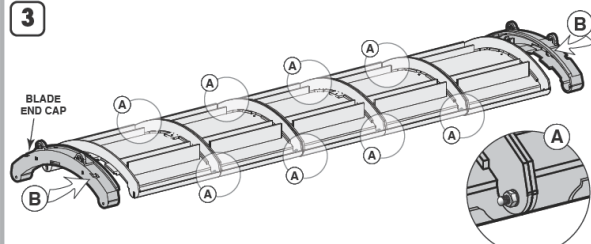


1



Slide **Blade Sections** together with **Tabs** all pointing in the **SAME** direction.

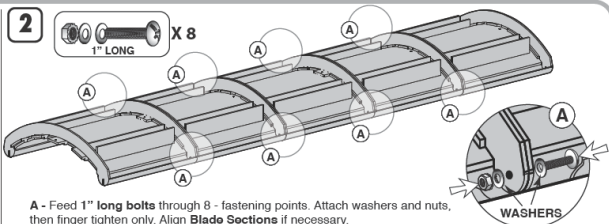
3



USING THE INCLUDED SCREWDRIVER AND YOUR WRENCH:  
**A** - Tighten fully all **1" long bolts** and nuts at 8 - fastening points (**A**).  
**B** - Slide an **End Cap** over each end of the **Blade**.

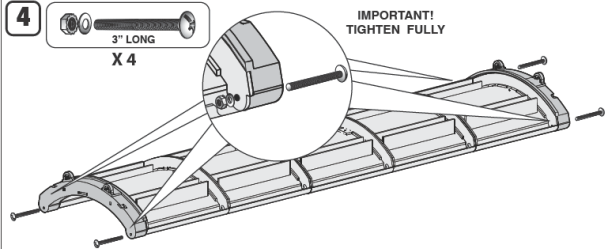
**IMPORTANT!**  
**TIGHTEN FULLY**

2



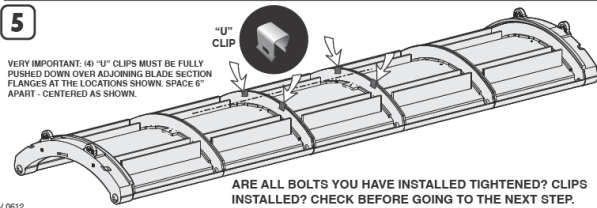
**A** - Feed **1" long bolts** through 8 - fastening points. Attach washers and nuts, then finger tighten only. Align **Blade Sections** if necessary.

4



Feed **3" long bolts** through (2) holes in each **End Cap** and **Blade Section**. Attach washers and nuts, **tighten fully**.

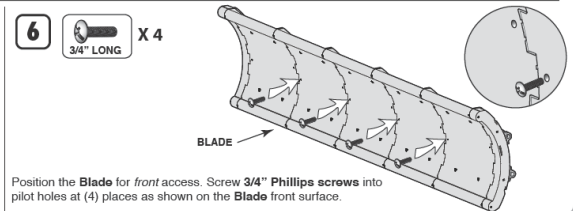
5



**VERY IMPORTANT:** (4) "U" CLIPS MUST BE FULLY PUSHED DOWN OVER ADJOINING BLADE SECTION FLANGES AT THE LOCATIONS SHOWN. SPACE 6" APART - CENTERED AS SHOWN.

**ARE ALL BOLTS YOU HAVE INSTALLED TIGHTENED? CLIPS INSTALLED? CHECK BEFORE GOING TO THE NEXT STEP.**

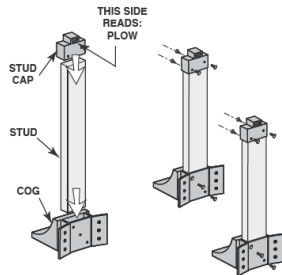
6



Position the **Blade** for **front** access. Screw **3/4" Phillips screws** into pilot holes at (4) places as shown on the **Blade** front surface.



**7**  **3/4" LONG**  
**X 10**

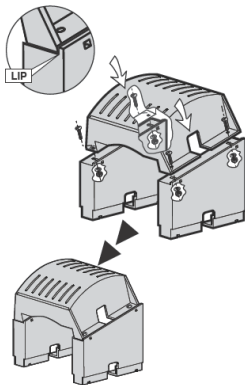


**IMPORTANT NOTE:**  
**FOR VEHICLES WITH BUMPER HEIGHT GREATER THAN 14", SEE TRUCK MOUNTING METHOD STEP - 14.**

**RECOMMENDATION:** The top of the stud cap should be even with the car's hood. If the supplied stud is too short, please cut your own 2x4 to the proper length. If your car is shorter than the stud supplied, slide the stud through the cog until even with top of the hood.

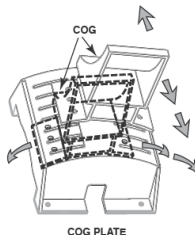
Slide **Studs** down into **Cogs** - flush with bottom of **Cog**. Slide **Stud Caps** over tops of **Studs** so the word "**PLOW**" is positioned as shown. Secure these parts with **(7) 3/4" long flat head screws** to each stud as shown.

**8**  **1" LONG** X 4



Attach the **(2) Cog Extenders** to one of the **Cog Plates**. Use **(4) 1" long bolts, washers and nuts** as shown. Make sure **Cog Plate** rests inside **Cog Extender lip**. Line up mounting holes and tighten bolts and nuts fully.

**9** **A**



**A**

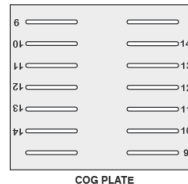
**Cogs** may be moved upward, downward, and side - to - side for attachment on **Cog Plates** to accommodate your specific vehicle.

**NOTE:**

For "straighter" (side to side) front bumpers e.g. Jeep, Ford Escape, etc. Bolt the **Cogs** dead center on the **Cog Plates**.

For more curved (side to side) front bumpers, mount the **Cogs** on the insides (toward the center of the car) of both **Cog Plates**.

**9** **B**



**B**

The numbers: 9 - 14 on the **Cog Plates** correspond with the distance from the ground to the bottom edge of your bumper.

**EXAMPLE:**

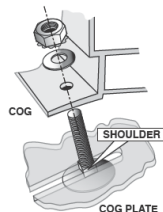
Measure the **distance** from the ground to the bottom of the bumper. **Let's say it is 10".**

**Then, place the bottom hole of the Cog over slot #10 on the Cog Plate.** (In this case, the opposite bottom hole of the Cog will fall over slot with inverted #14.)

**IMPORTANT NOTE:**

**FOR VEHICLES WITH BUMPER HEIGHT GREATER THAN 14", SEE TRUCK MOUNTING METHOD STEP - 14.**

**9** **C**



**C**

**PREVIEW FOR ATTACHING COGS TO COG PLATES IN STEP - 10:**

Install the **1" Elevator Bolts** from underneath the **Cog Plates**.

The shoulders on the bolts will lock into the slots of the **Cog Plates** as shown.

Cogs are then secured to the **Cog Plates** with washers and nuts tightened fully.

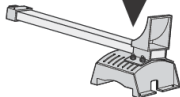
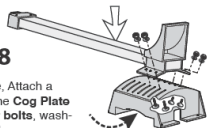


10

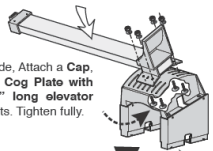


X 8

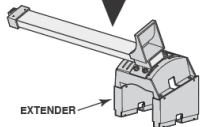
CAP, STUD AND COG ASSEMBLY WITHOUT EXTENDER.



CAP, STUD AND COG ASSEMBLY WITH EXTENDER.

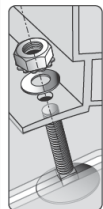


EXTENDER



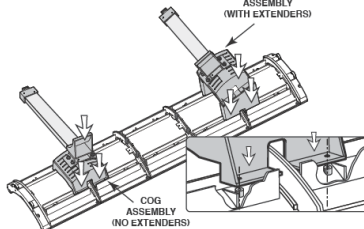
EXTENDER

Using Step - 9 as a guide, Attach a **Cap, Stud, and Cog** to the **Cog Plate** with (4) 1" long elevator bolts, washers, and nuts. Tighten fully.



Using Step - 9 as a guide, Attach a **Cap, Stud, and Cog** to the **Cog Plate** with extenders with (4) 1" long elevator bolts, washers, and nuts. Tighten fully.

11

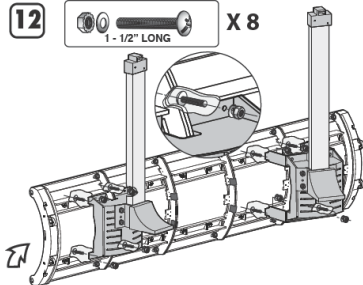


Lay the **Blade** face down. Slide the **Cog Assemblies** between ribs on back of the **Blade** in the recommended positions shown. Be sure mounting holes are lined up as shown in the detail.

12



X 8

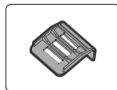


- Return the **Plow Assembly** to an upright position so both front and back sides are accessible.
- Feed 1 - 1/2" long bolts (from the front) through mounting holes in the **Blade Sections, Cog Plates, and Cog Plate Extenders** as shown.
- Place washers and nuts over bolts and tighten securely. Make sure to install and tighten all (8) 1 - 1/2" long bolts.

13

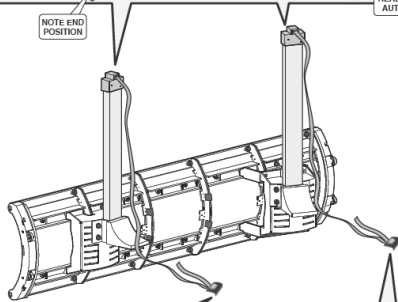
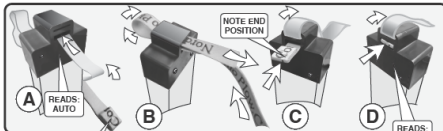


X 2



X 2

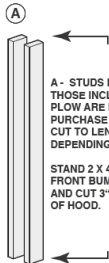
ATTACH HOOD STRAPS TO STUD CAPS:



ATTACH HOOD CLIPS TO HOOD STRAPS:

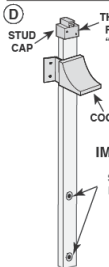
14

## TRUCK MOUNTING METHOD - A (WITH INCLUDED HARDWARE)



A - STUDS LONGER THAN THOSE INCLUDED WITH PLOW ARE REQUIRED. PURCHASE 2 X 4'S AND CUT TO LENGTH (33" - 36" DEPENDING ON VEHICLE).

STAND 2 X 4'S AGAINST FRONT BUMPER. MARK, AND CUT 3" BELOW TOP OF HOOD.



**IMPORTANT!**  
"TEE NUTS" SHOULDERS FACING OUT

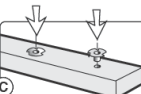
**D - MAKE SURE TEE NUTS, COG, AND STUD CAP (SIDE READING "AUTO") ALL FACE THE SAME DIRECTION.**



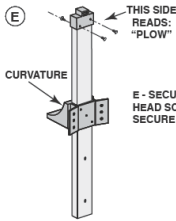
USE THE INCLUDED HARDWARE PICTURED HERE FOR DIRECT TO PLOW MOUNT.



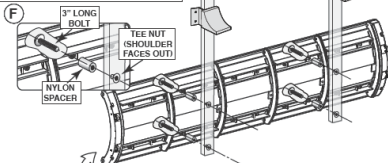
B - DRILL (2) 3/8" DIAMETER HOLES IN EACH 2 X 4, 11" O.C., 2" IN FROM ONE END. CENTER THE HOLES SIDE TO SIDE.



C - POUND "TEE NUTS" FULLY INTO THE HOLES.



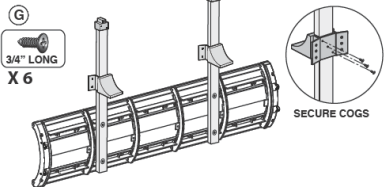
E - SECURE THE STUD CAPS WITH (4) 3/4" FLAT HEAD SCREWS EACH, SUPPLIED. DO NOT SECURE THE COGS YET.



F - SECURE THE 2 X 4'S TO THE BACK OF THE PLOW WITH (4) 3" LONG BOLTS AND NYLON SPACERS (FURNISHED). START BOLTS CAREFULLY INTO THE FRONT OF THE PLOW, SLIDE SPACERS ON, THEN TIGHTEN FULLY.



X 6



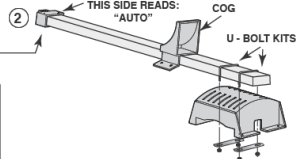
POSITION ASSEMBLED BLADE AGAINST THE FRONT BUMPER OF THE TRUCK. CHECK THAT THE STUD WITH CAP IS JUST BELOW THE HOOD. THEN POSITION THE CURVATURE OF THE COGS 1" BELOW THE BUMPER. SECURE COGS TO STUDS WITH 3/4" FLAT HEAD SCREWS SUPPLIED. (3 PER STUD).

## ALTERNATE TRUCK MOUNTING METHOD - B (HARDWARE NOT INCLUDED)



3/4" LONG

X 8

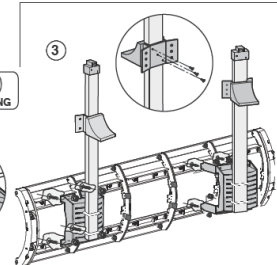
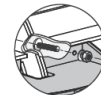


VIEW INSIDE  
GOG PLATE



3/4" LONG

X 6



THIS METHOD ALLOWS FOR ANGLED PLOWING BY USING THE INCLUDED COGS AND COG EXTENDER PLATE. ("U - BOLT" KITS AND 2 X 4'S MUST BE PURCHASED SEPARATELY).

SECURE THE STUD CAPS WITH (4) 3/4" FLAT HEAD SCREWS EACH, SUPPLIED. DO NOT SECURE THE COGS YET.

1 - PERFORM STEPS "14A, D, and E".

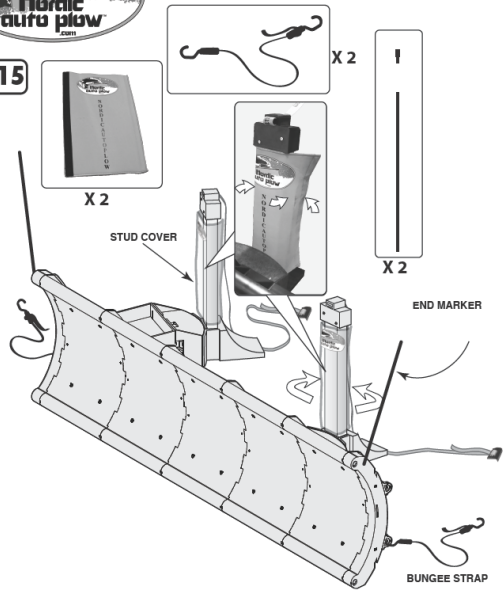
2 - SECURE 2 X 4'S TO COG PLATES WITH (2) 4" X 4" U - BOLT KITS AS SHOWN. CAUTION: DO NOT OVER TIGHTEN.

3 - ATTACH COG PLATES / 2 X 4 ASSEMBLY TO BACK OF PLOW AS IN "STEP 1 - 12" OF INSTRUCTIONS.

4 - FINALIZE ASSEMBLY BY PERFORMING STEP "14G".

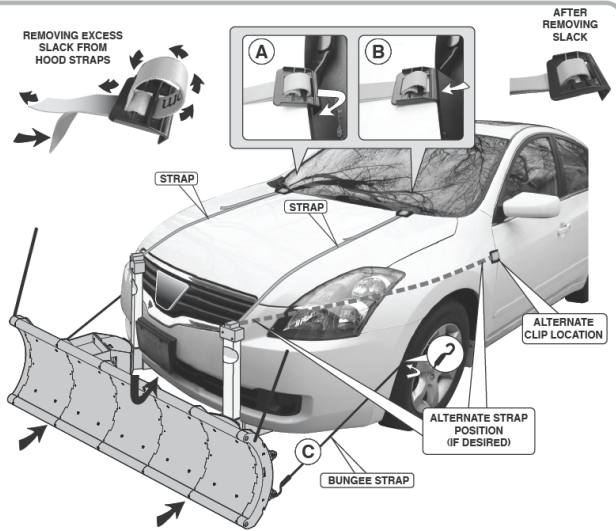


15



Keep the **Nordic Auto Plow** logo facing forward. Wrap the (2) **Stud Covers** around the studs tightly and secure with the attached Velcro strips. Attach **End Markers** in the slots provided. Attach the **Bungee Straps** as shown above.

16



Slide the **Nordic Auto Plow** in front of the vehicle. **Cogs** will be underneath the bumper. **Wrapped Studs** should be flush with front of bumper and vertical as shown.

**IMPORTANT: HOOD STRAPS MUST BE PROPERLY INSTALLED:**

- A** - Adjust **Hood Strap** lengths as necessary so **Hood Clips** will easily clip on the back edge of the hood.
- B** - Remove some of the slack from the **Straps**, but don't over tighten. (*Straps will tighten as snow builds during plowing.*)

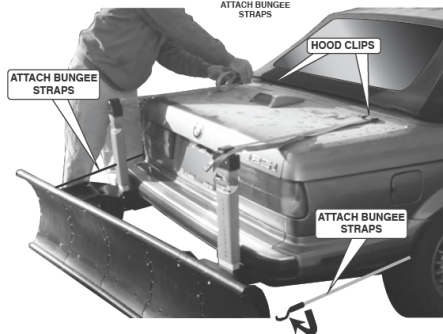
**NOTE: Alternate Placement Locations for the Hood Clips** may be the front door openings as shown. (This location may be more suitable for smaller (narrower) vehicles.)

**C** - **PLEASE READ THE CAUTIONARY TAGS ON THE BUNGEE STRAPS FIRST.** Attach the **Bungee Straps** to the wheel wells or springs on both sides of the vehicle as shown. Adjust each **Bungee Strap** so it will not fall off. **DO NOT STRETCH EXCESSIVELY.**

Instructions for attachment to the rear of your car (if preferred) are given in the next step.



17

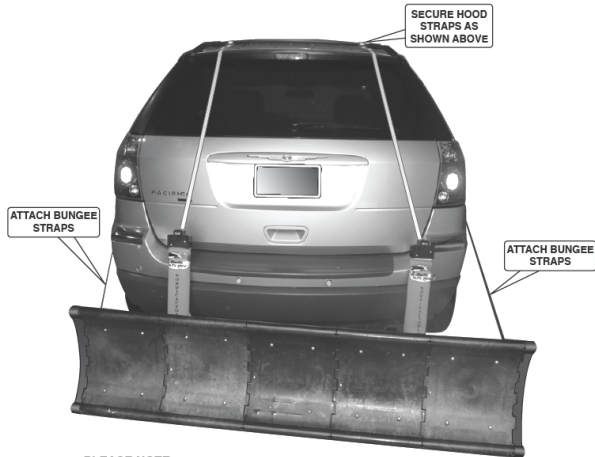


The **Nordic Auto Plow** may be attached to the rear of your car if preferred. Hood Clips will now be hooked to the leading edge of the trunk. Be sure to attach **Bungee Straps** to rear wheel well or spring as shown above.

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When attaching the Straps to an SUV with cross rails and / or luggage racks, follow Steps "A" - "D" above to secure Straps in these instances.



**PLEASE NOTE:**

If your SUV is not equipped with cross rails, you may secure **Hood Straps** using the **Hood Clips** to the leading edge of the rear hatch as shown above. Be sure to attach **Bungee Straps** as in Step - 17.