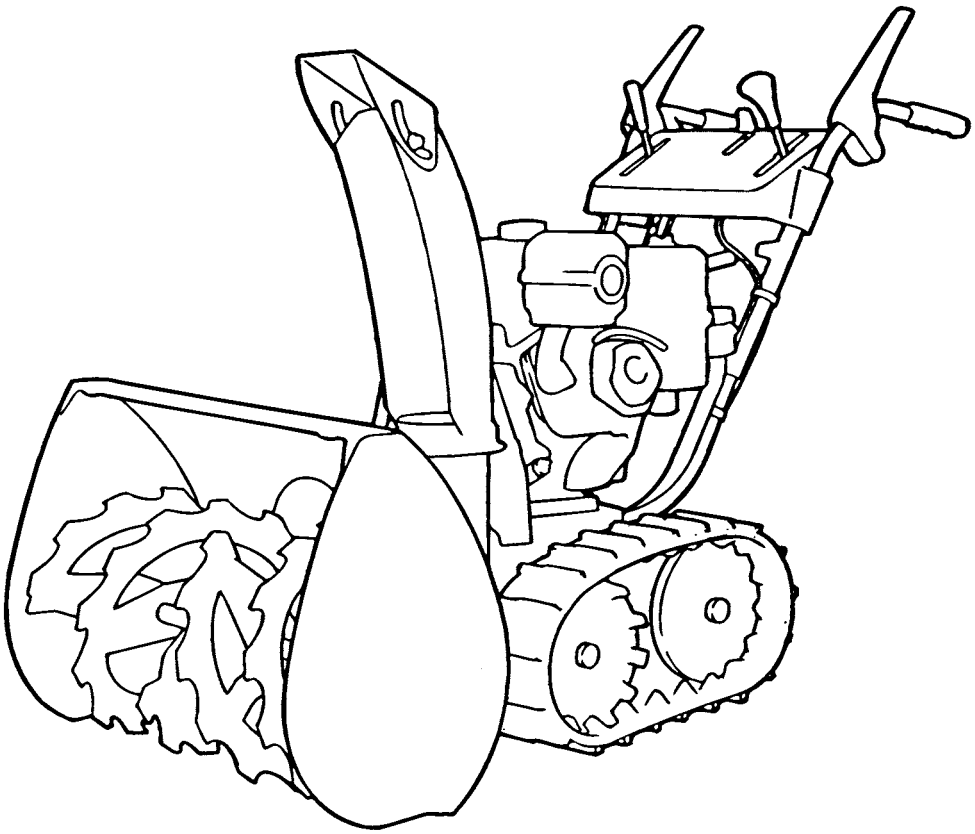
HONDA
Power
Equipment

Dealer Instructions for SETUP and PRE-DELIVERY SERVICE

HS928K1 • HS1332

SNOWBLOWERS



IMPORTANCE OF PROPER SETUP AND PRE-DELIVERY SERVICE

FOR YOUR CUSTOMER'S SAFETY

Proper setup and pre-delivery service are essential to the customer's safety and the reliability of the snowblower. Any error or oversight made during assembly and servicing of a snowblower can result in faulty operation, damage to the snowblower, or injury to others.

⚠ WARNING

Improper setup or pre-delivery service can create an unsafe condition that can cause your customer or others to be seriously hurt or killed.

Follow the procedures and precautions in this manual and other service materials carefully.

FOR YOUR SAFETY

Some of the most important general safety precautions are given below. However, we cannot warn you of every conceivable hazard that can arise in performing setup and pre-delivery service. Only you can decide whether or not you should perform a given task.

⚠ WARNING

Failure to properly follow instructions and precautions can cause you to be seriously hurt or killed.

Follow the procedures and precautions in this manual carefully.

IMPORTANT SAFETY PRECAUTIONS

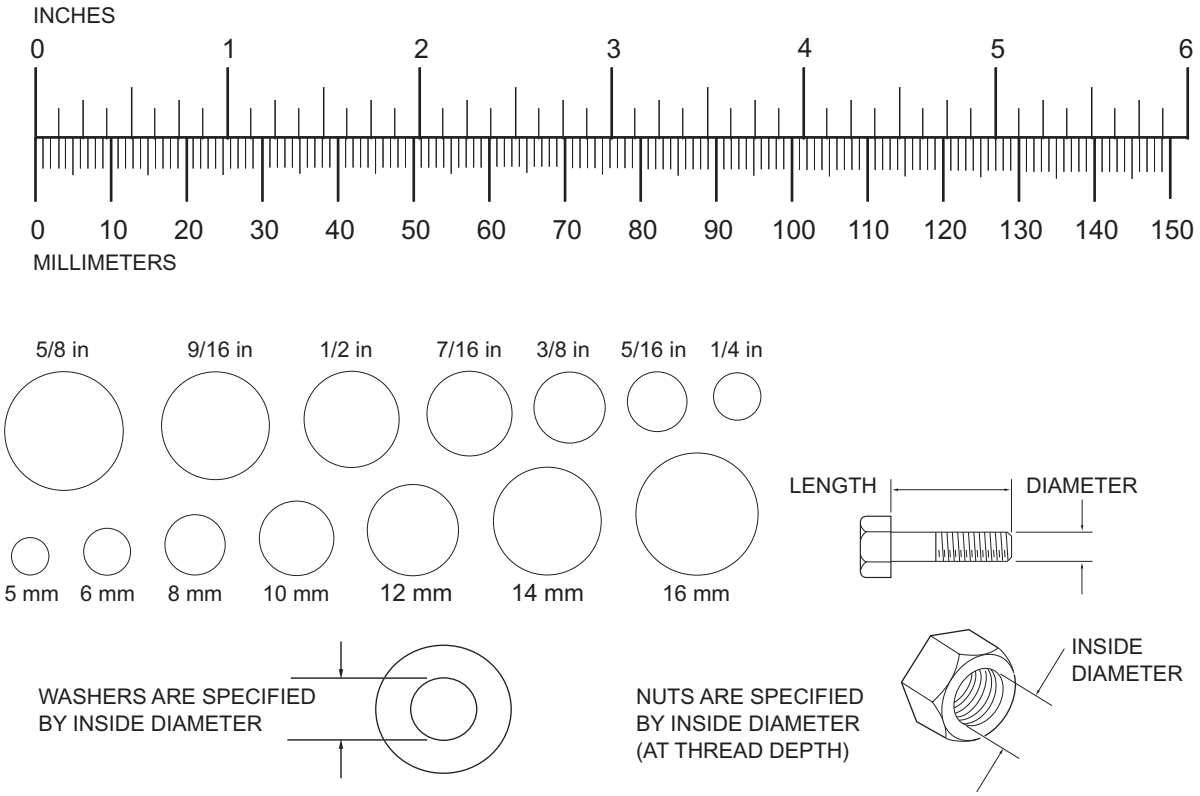
- Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and safety equipment. When performing setup and pre-delivery service, be especially careful of the following:
  - ❑ Read all of the instructions before you begin, and make sure you have the tools, the replacement or repair parts, and the skills required to perform the tasks safely and completely.
  - ❑ Protect your eyes by using proper safety glasses, goggles, or face shields any time you hammer, drill, grind, or work around pressurized air, pressurized liquids, springs, or other stored-energy components. If there is any doubt, put on eye protection.
  - ❑ Use protective wear (gloves, safety shoes, etc.) when necessary. Handling hot or sharp parts can cause severe burns or cuts. Before you grab something that looks like it can hurt you, stop and put on gloves.
- Make sure the engine is off before you begin any servicing procedures unless the instruction tells you to do otherwise. This will help eliminate several potential hazards:
  - ❑ Carbon monoxide poisoning from engine exhaust–Be sure there is adequate ventilation whenever you run the engine.
  - ❑ Burns from hot parts–Let the engine and exhaust system cool before working in those areas.
  - ❑ Injury from moving parts–If the instruction tells you to run the engine, be sure your hands, fingers, and clothing are out of the way.
- Gasoline vapors are explosive. To reduce the possibility of a fire or explosion, be careful when working around gasoline.
  - ❑ Use only a nonflammable solvent, not gasoline, to clean parts.
  - ❑ Never store gasoline in an open container.
  - ❑ Keep all cigarettes, sparks, and flames away from all fuel-related parts.

Setup and pre-delivery service must be performed by an authorized Honda snowblower dealer. These instructions are provided for dealer use.

FOLLOW THESE INSTRUCTIONS CAREFULLY

Proper setup and pre-delivery service are essential for safe, reliable operation. Your customer expects his or her Honda snowblower to be correctly assembled, adjusted, and ready for use; test the snowblower to be sure that it functions properly. Fill out the *Power Equipment Pre-Delivery Check List* (TO056) and give the yellow copy to the customer.

How to measure hardware and components:



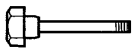
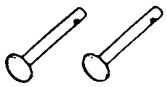
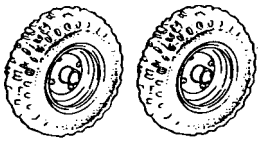
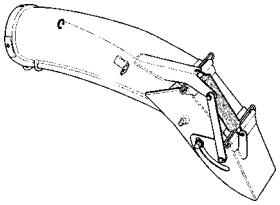
NUT AND BOLT DIAMETER	STANDARD TORQUE VALUES		
	N·m	kg-m	ft-lb
6 mm pan-head screws	9	0.9	6.5
6 mm flange bolts	11	1.1	8.0
8 mm flange bolts and nuts	22	2.2	16.0
10 mm flange bolts and nuts	34	3.5	25.0

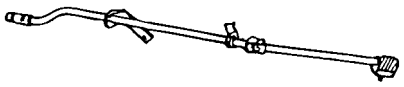
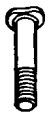
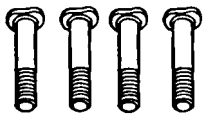
Torque values for special hardware will be called out during the procedure.

LOOSE PARTS

Remove the crate cover and open the parts carton.

Remove all the parts from the carton. Check the parts against these illustrations.

Description	Quantity	Part Number	Illustration
Owner's manual	1	31V416000	
Tool Kit (contains spark plug wrench & handle, 10 x 12 mm wrench, and 14 x 17 mm wrench)	1	N/A	
Blower Shear Bolt	1	90102-732-010	
6 mm Flanged Lock Nut (for blower shear bolt)	1	90114-SA0-000	
6 x 16 mm Auger Shear Bolt	3	95701-06016-00	
6 mm Nut	3	94001-06200-0S	
6 x 34 mm Clevis Pin (wheel type only)	2	90701-732-000	
Cotter Pin (wheel type only)	2	94201-30180	
Wheel Assembly (wheel type only)	2	42700-V41-305	
Chute Assembly	1	N/A (Use the following parts if you need to create a complete assembly.)	
Chute Guide	1	76320-V41-305	
Chute Guide Pin	1	76326-738-E00	
Chute Spring	1	76328-738-E00	
Washer	4	17812-634-670	
Chute Guide Collar	2	76329-738-E00	
6 mm Cap Nut	2	90201-415-000	
6 x14 mm Flange Bolt	2	95701-06014-00	
8 x 15 mm Special Bolt	3	90101-963-000	
8 mm Flange Nut	3	94050-08000	

Description	Quantity	Part Number	Illustration
Chute Crank Assembly	1	N/A (Use the following parts if you need to create a complete assembly.)	
Chute Drive Gear	1	76331-730-000	
Handle Bracket Holder	1	76335-767-A10	
Chute Handle Bush	1	76336-730-000	
Chute Handle Bracket A	1	76337-736-A00	
Chute Handle Bracket B	1	76338-736-C10	
Drive Gear Stay	1	76341-767-A10	
Drive Gear Bush	1	76343-732-000	
Chute (Upper) Handle	1	76350-767-C30	
Chute Handle Grip	1	76351-730-000	
Chute Handle Bush A	1	76352-730-000	
Chute (Lower) Handle Comp.	1	76360-767-C30	
8 mm Flange Nut	1	94050-08000	
16 mm Plain Washer	1	94102-16000	
8 mm Plain Washer	1	94103-08000	
4 x 28 Spring Pin	1	94305-40282	
6 x 14 Flange Bolt	1	95701-06014-00	
8 mm Flat Washer	1	94103-08000	
Strut Cap	2	53115-732-000	
6 x 12 mm Flange Bolt (HS928K1)	1	95701-06012-00	
6 x 18 mm Flange Bolt (HS1332 only)	1	95701-06018-00	
Handle Holder Bolt	1	90109-732-010	
6 x 9 mm Spacer (HS1332 only)	1	91502-ZE2-M90	
Handle Holder Bolt (Wheel-Type)	4	95701-08045-00	**WHEEL-TYPE** 
8 x 45 mm Bolt (Track-Type)	4	95701-08045-00	**TRACK-TYPE** 
8 mm Curved Square Washer	5	90501-898-000	
8 mm Flange Nut	5	94050-08000	
Wire Band	2	90650-KV6-003	

DAMAGE OR MISSING PARTS

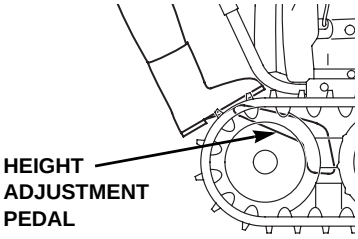
- For parts lost or damaged in transit, refer to section 3 of the *Warranty Policy and Procedures Manual*.
- For parts left out by the factory, refer to section 6 of the *Warranty Policy and Procedures Manual*.

UNCRATING

1. Remove and discard the crate top frame, side, and braces.
2. Remove and discard the shipping braces from the engine bed side plates and handlebar assembly.
3. After assembly is completed, push the snowblower off the crate base.

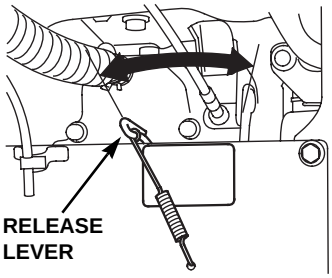
   You can drive the snowblower off the crate base after adding oil (page 9) and fuel (page 10).

   a. **All track-driven models:**
   Bend the crate's forward track stops flat against the crate base. Step on the height adjustment pedal, and push down on the handlebar to raise the auger housing to the highest position.



   b. Move the transmission release lever to the RELEASED position for manual pushing or to the ENGAGED position for self-propelled use.

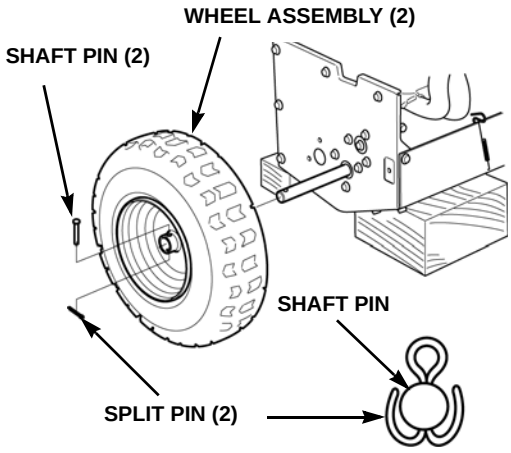
   c. Move the snowblower forward, off the crate base. Keep downward pressure on the handlebars to avoid catching the scraper bar on the crate base.



ASSEMBLY

WHEEL INSTALLATION (WHEEL TYPE ONLY)

1. Set the wheel onto the wheel shaft and insert the shaft pin.
2. Insert the split pin in the wheel shaft and spread ends as shown.

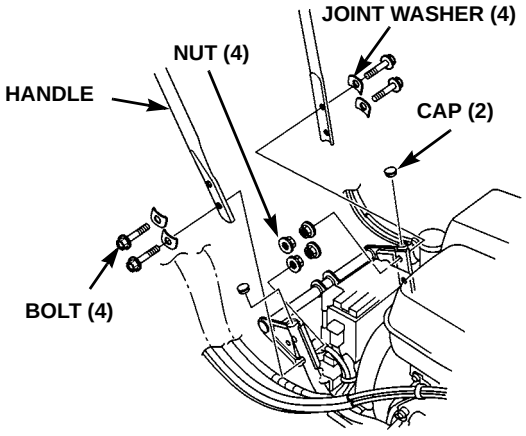


HANDLE INSTALLATION

- **Track-Type**

1. Install the lower handle caps.
2. Set the handle and install the four joint washers and four bolts.
   - Route the choke cable outside the handle.
   - Route the other cables and engine stop switch harness inside the handle.
3. Install and tighten the four nuts (5).

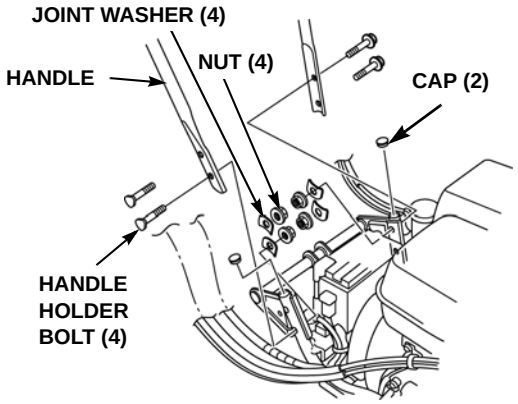
   TORQUE: 22 N•m (16 ft-lb)



- **Wheel-Type**

1. Install the lower handle cap.
2. Set the handle and install the four handle holder bolts.
   - Route the choke cable outside the handle.
   - Route the other cables and code inside the handle.
3. Install the four joint washers and tighten the four nuts.

   TORQUE: 22 N•m (16 ft-lb)

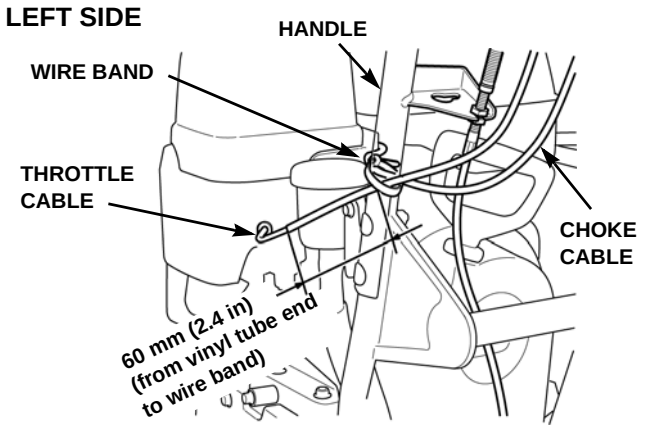


WIRE BAND INSTALLATION

Secure the following with the wire bands as shown.

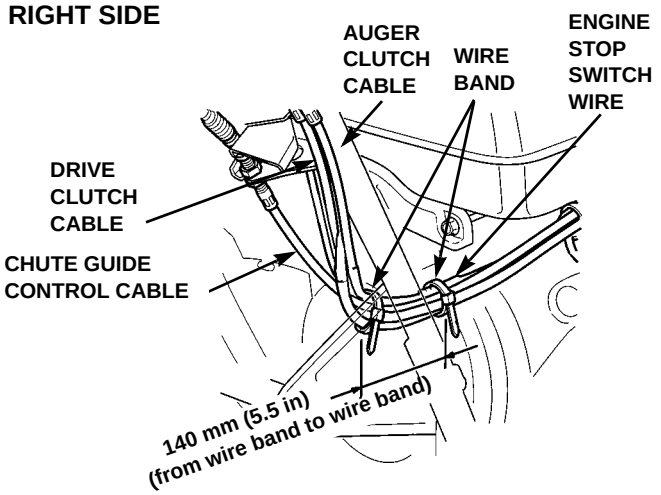
Left side

- Handle
- Throttle cable
- Choke cable



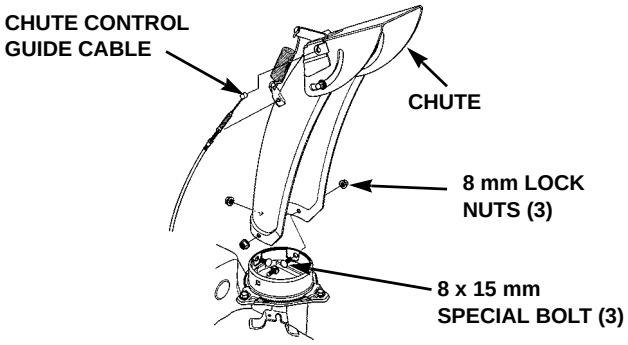
Right side

- Engine stop switch wire
- Drive clutch cable
- Auger clutch cable
- Chute guide control cable



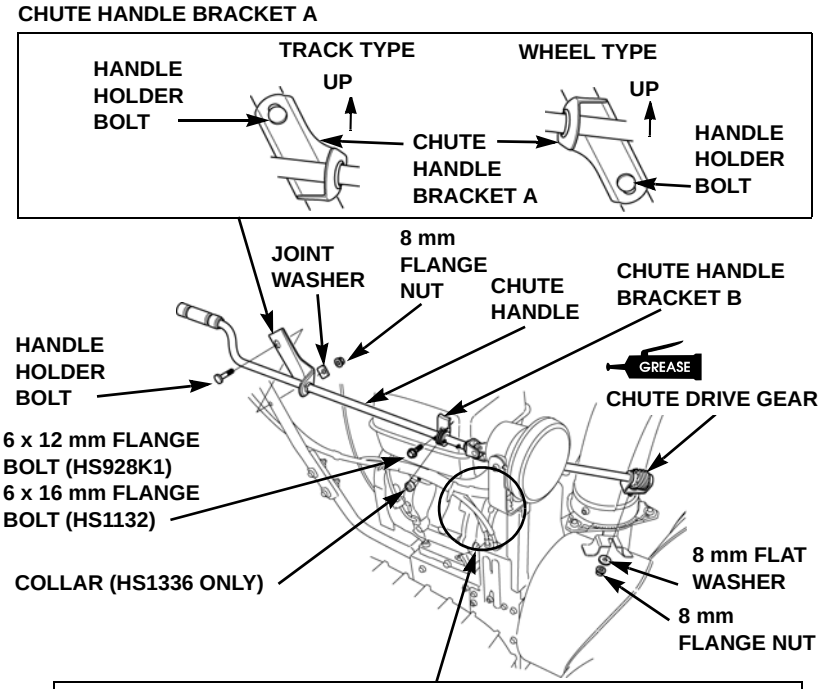
CHUTE INSTALLATION

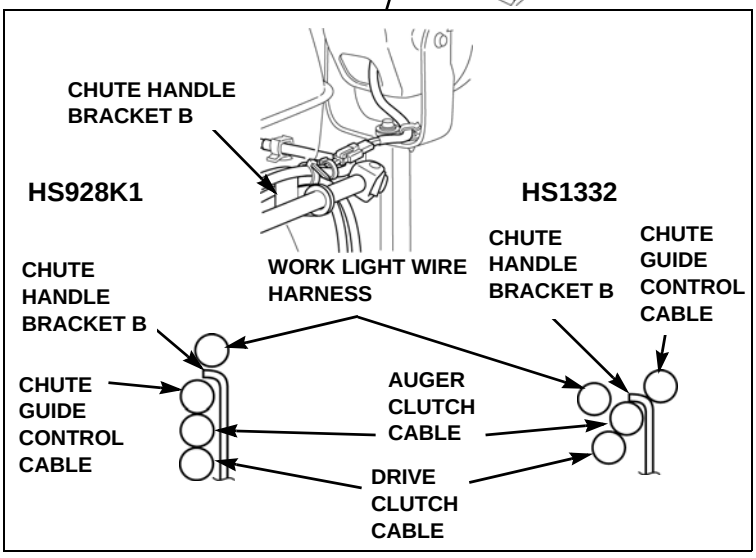
1. Install the chute.
2. Install the three 8 x 15 mm special bolts and tighten the three 8 mm lock nuts.
3. Connect the chute guide control cable and check the adjustment (see page 9).



CHUTE HANDLE INSTALLATION

1. Apply grease to the chute drive gear.
2. Loosely install the chute drive gear with the 8 mm flat washer and 8 mm flange nut.
3. Remove the right upper side handle nut, joint washer, and handle holder bolt.
4. Route the following cables and wire harness around chute handle bracket B properly as shown:
   - Chute guide control cable
   - Auger clutch cable
   - Drive clutch cable
   - Work light wire harness
5. Loosely install chute handle bracket B with the collar (HS1332 only) and 6 x 12 mm flange bolt (HS928K1) or 6 x 16 mm flange bolt (HS1332)
6. Loosely install chute handle bracket A with the handle holder bolt, joint washer, and 8 mm flange nut.
7. Tighten the 8 mm flange nut securing chute handle bracket A.
8. Tighten the 6 mm flange bolt securing chute handle bracket B.
9. Tighten the chute drive gear 8 mm flange nut securing the chute drive gear.
10. After installation, check that the cables and work light wire harness are not touching the chute handle.





ADJUSTMENTS

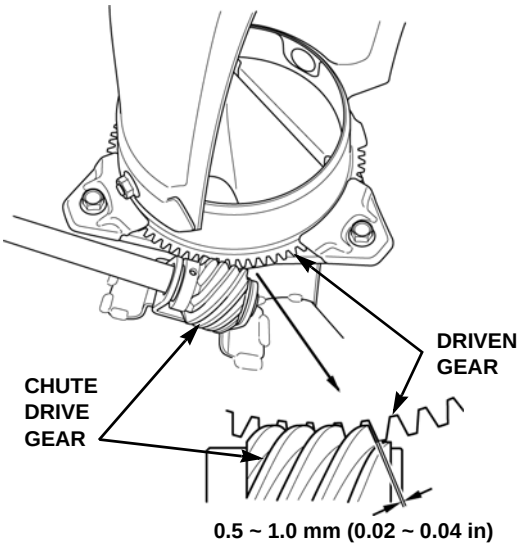
1. Check the backlash between the chute drive gear and driven gear. Adjust as necessary.

   BACKLASH: 0.5 ~ 1.0 mm (0.02 ~ 0.04 in)

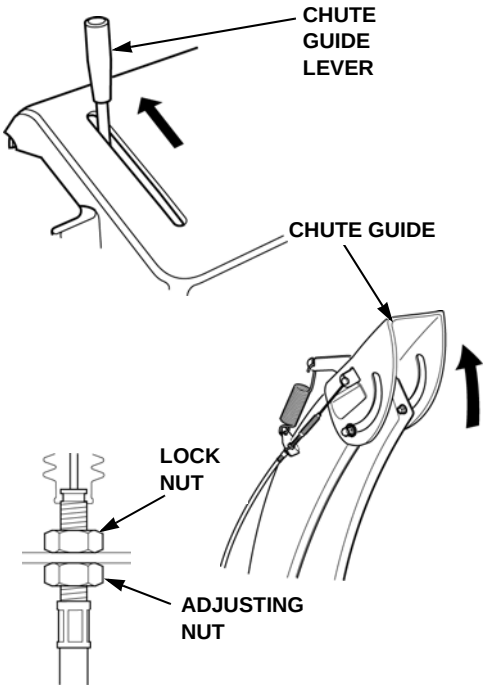
2. Check that the chute rotates smoothly when the chute handle is operated.

   If the chute handle does not rotate smoothly, loosen chute handle bracket B bolt and chute handle bracket A nut and slightly shift the position of the chute handle brackets until the chute handle operates smoothly. Retighten the hardware after adjustment.

3. Readjust the chute drive gear backlash if necessary.



4. Check that the chute guide is in the most raised position when the chute guide lever is in the "UP" position.
5. Adjust the chute guide control cable by loosening the lock nut and turning the adjusting nut (chute guide lever side) right or left.
6. After adjustment, tighten the lock nut.



PRE-DELIVERY INSPECTION CHECKLIST

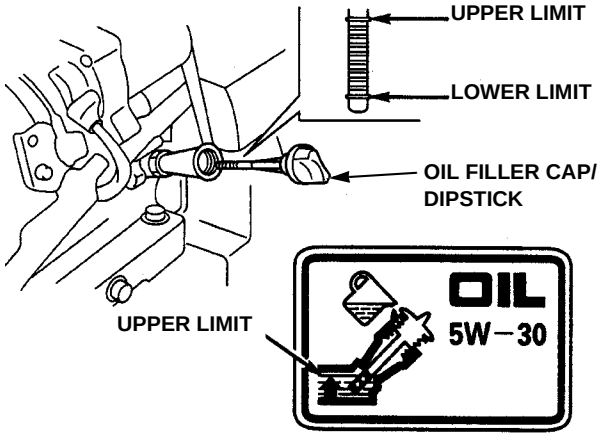
Refer to the owner's manual or shop manual for more detailed procedures if necessary.

1. The snowblower is shipped **WITHOUT ENGINE OIL**.

   Remove the oil filler cap/dipstick and add oil to bring the level to the upper limit.

   Do not overfill. If the engine is overfilled, the excess oil may get transferred out the crankcase breather hose.

   Use SAE 5W-30 engine oil with an API rating of SJ or later.

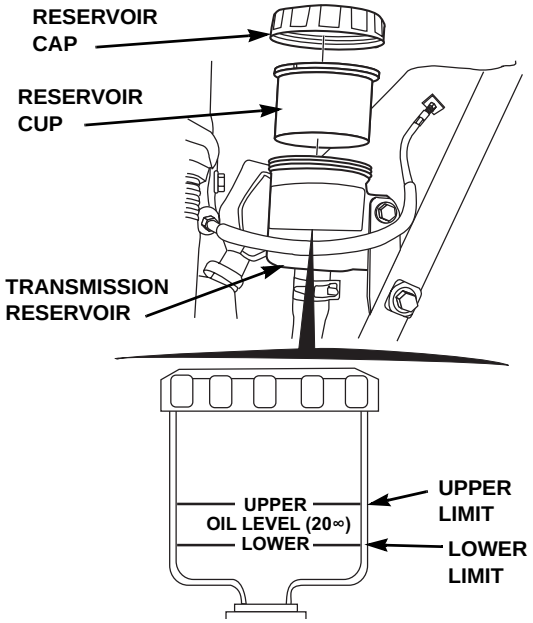


2. Check the hydrostatic transmission fluid level while the engine is cold.

   If necessary, fill the transmission reservoir to the temperature compensated level shown in the following table by removing the reservoir cap and cup.

   Use only Honda Hydrostatic Fluid. P/N 08208-HST01

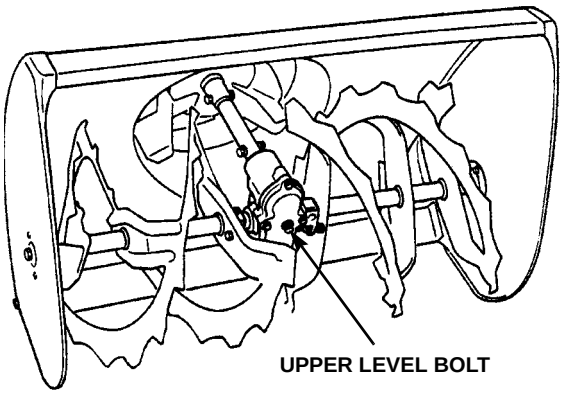
3. Install the reservoir cap and cup. Do not over-tighten the cap.



4. Remove the upper level bolt from the auger transmission and add oil until oil runs out the bolt hole. Install the upper level bolt.

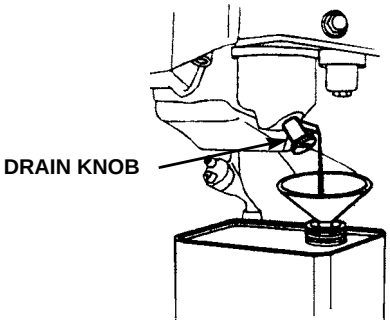
   Use SAE 90 gear oil.

   Part number: 08739-90W



5. Drain the fuel tank and the carburetor float bowl. Fill the fuel tank with fresh, unleaded 86 pump octane or higher gasoline.

> **⚠ WARNING**
>
> Gasoline is highly flammable and explosive.
>
> You can be burned or seriously injured when handling fuel.
>
> - Stop engine and keep heat, sparks, and flame away.
> - Handle fuel only outdoors.
> - Wipe up spills immediately.

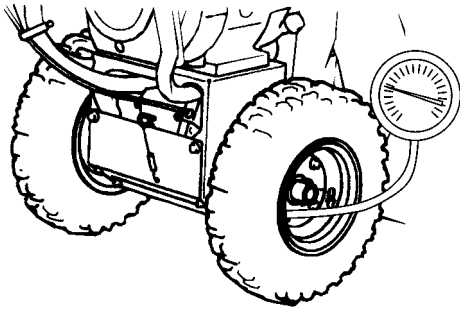


   Refer to the owner's manual for facts about oxygenated fuels.

6. **Wheel-types:** Check tire air pressures and inflate to 8.0 psi (55 kpa) if necessary.

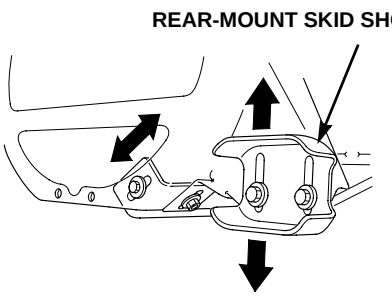
NOTICE

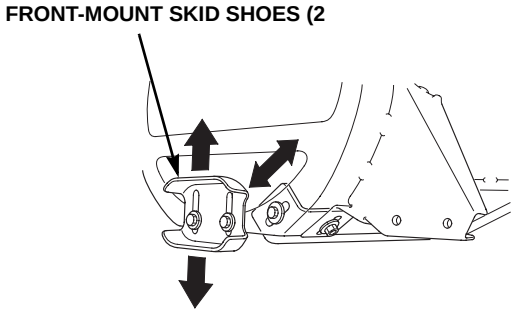
Over-inflating the tires may damage the tires and may cause the snowblower to pull to one side. Do not over-inflate the tires.



7. Check the scraper bar and skid shoe adjustments:

   The skid shoes can be mounted on the front of the auger housing (front mount) or on the rear of the auger housing (rear mount). The rear-mount skid shoe adjustment is shown. The front-mount skid shoe adjustment procedure is the same.



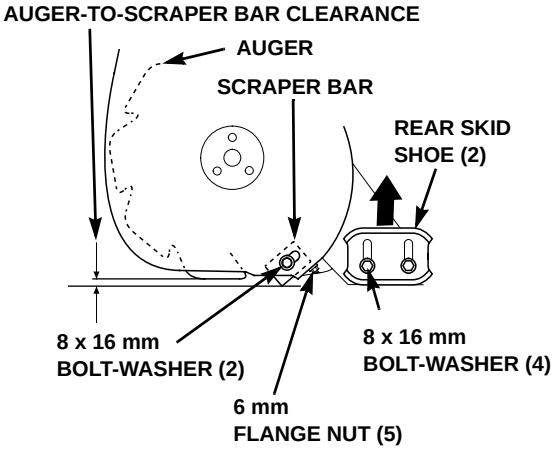


   a. Place the snowblower on a level surface.

      On track-type snowblowers, step on the foot pedal and set the auger in the middle position.

   b. Loosen the four 8 x 16 mm bolts washers supporting the skid shoes. Raise the skid shoes so that the scraper bar is resting on the surface.

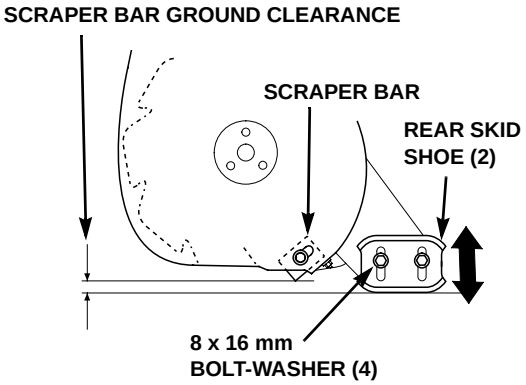
   c. Measure the auger-to-scraper bar clearance. If needed, adjust by loosening the five 6 mm flange nuts and the two 8 x 16 mm bolt-washers. Evenly set the scraper bar to obtain the specified clearance.



AUGER-TO-SCRAPER BAR CLEARANCE
2.0 ~ 4.0 mm (3/32 ~ 5/32 in)

   d. After adjustment, tighten the five 6 mm flange nuts and the two 8 x 16 mm bolt-washers.

   e. Set the scraper bar ground clearance so it will clear the type of surface the snowblower is expected to operate on.



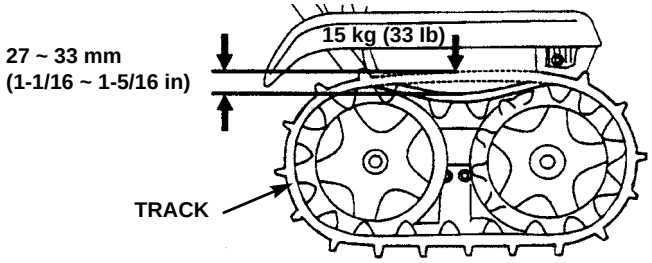
SCRAPER BAR GROUND CLEARANCE	
Ordinary surfaces	4.0 ~ 8.0 mm (5/32 ~ 5/16 in)
Smooth icy surfaces	2.0 ~ 5.0 mm (3/32 ~ 3/16 in)
Rough surfaces	25.0 ~ 30.0 mm (1 ~ 1-13/16 in)

   f. Set the skid shoes evenly on the surface.

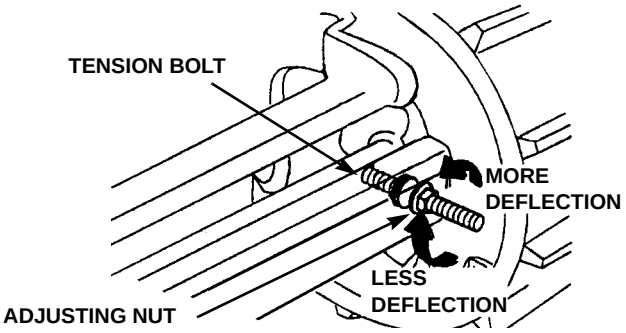
   g. After adjustment, tighten the four 8 x 16 mm bolt-washers.

8. **On Track-types:** Check track tension.
   a. With the snowblower resting on its tracks, check track deflection by pressing down midway between the wheels with a force of 15 kg (33 lb).

CORRECT TRACK DEFLECTION
27 ~ 33 mm (1-1/16 ~ 1-5/16 in)



   b. Adjust if necessary. Be sure to adjust both sides evenly.
9. Check the security of all nuts and other fasteners. Tighten if necessary.

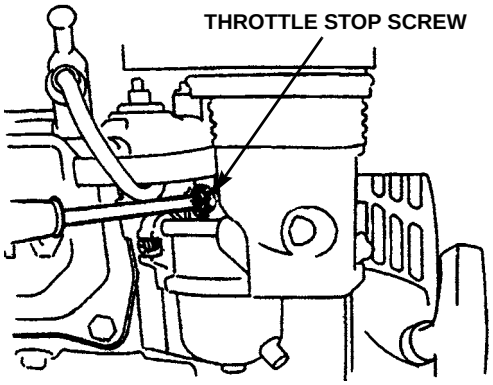


OPERATIONAL TESTS

Test every snowblower to be sure it functions properly.

1. Check the electric starter operation.
2. Check the operation of the engine controls:
   - Turn the fuel valve ON.
   - Turn the engine switch to the ON position.
   - Check the throttle lever operation.
   - Check the choke knob. Refer to the shop manual if cable adjustment is necessary.
3. Start the engine outside on a flat, level surface.
4. Check engine idle rpm with the throttle lever in the SLOW position. Adjust if necessary.

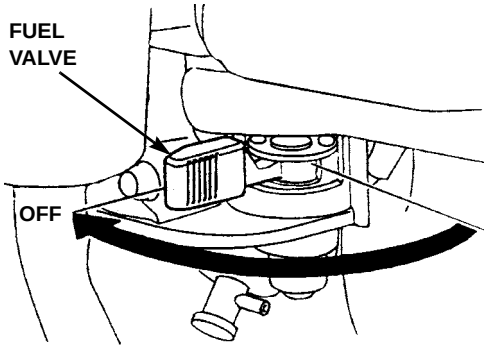
   IDLE RPM (ALL): 2,200 ± 150 rpm



5. Use a tachometer to check the maximum governed rpm with the throttle lever in the FAST position and auger clutch lever disengaged.

HS928K1	3,600 ± 150 rpm
HS1332	3,250 ± 150 rpm

6. Check the auger clutch lever operation with the engine running and the throttle lever in the FAST position. Make sure the auger engages and disengages smoothly.
7. Engage the drive clutch lever and make sure the snowblower propels forward and stops propelling when the lever is released.
8. Check the shift lever operation.
9. Make sure the engine stops when you move the engine switch to the OFF position.
10. Make sure the work light comes on when the engine is running.
11. Upon completion of tests, check for fuel and oil leaks. Repair as necessary.
12. Turn the fuel valve to the OFF position. Start and run the engine until the carburetor runs out of gas.



13. Fill out the appropriate areas of the Power Equipment Pre-Delivery Check List (TO056), and give the yellow copy to the customer.

PRE-DELIVERY (PDI) CHECK LIST

HONDA Power Equipment

The following pre-delivery (PDI) check list is designed for general application. There are individual exceptions to this list. Refer to the appropriate set-up instructions and shop manuals for detailed procedures and specifications.

ALL PRODUCTS

- ❑ ALL RECALLS AND UPDATES—Performed per Service Bulletins.
- ❑ ENGINE OIL—Fill to correct level with recommended oil. Remove "Engine has no oil" hang tag.
- ❑ FUEL TANK—Drain, inspect, and fill. Check for leaks.
- ❑ CARBURETOR FLOAT CHAMBER—Drain any old gasoline.
- ❑ CHECK THROTTLE OPERATION
- ❑ CHECK IDLE AND MAXIMUM ENGINE SPEED
- ❑ ACCESSORY INSTALLATION
- ❑ ALL NUTS, BOLTS AND OTHER FASTENERS—Check and tighten if necessary.

GENERATORS

- ❑ AIR FILTER—Ensure the filter is properly seated.
- ❑ BATTERY—Check that the battery is FULLY charged (min 12.4V). Factory-activated batteries require a "top off."
- ❑ Check maximum no-load engine speed (RPM_____)
- ❑ Check Auto Throttle®/Eco-Throttle™ operation
- ❑ Perform a load bank test
- ❑ Check the output from each receptacle

RATED LOAD (AC)

VOLTS _____ AMPS _____ FREQUENCY _____

DC BATTERY CHARGE SYSTEM

_____

- ❑ UPON COMPLETION, check for fuel or oil leaks.

LAWN MOWERS

- ❑ AIR FILTER—Ensure the filter is properly seated.
- ❑ CLUTCH LEVER FREE PLAY—Adjust if necessary.
- ❑ BLADE CONTROL LEVER—Adjust if necessary.
- ❑ SMART DRIVE™ CABLE ADJUSTMENT—Check operation and adjust if necessary.
- ❑ HST CHANGE CABLE ADJUSTMENT—Check operation and adjust if necessary.
- ❑ MOWER HEIGHT ADJUSTMENT LEVERS—Check operation and set all adjustment levers to the same height.
- ❑ BLADE BOLTS—Check blade bolts for proper torque.
- ❑ ACCESSORY OR ATTACHMENT INSTALLATION
- ❑ ALL NUTS, BOLTS, AND OTHER FASTENERS—Check and tighten if necessary.

CHECK OPERATION

- ❑ Governor ❑ Flywheel Brake ❑ Roto-Stop®
- ❑ Engine Stop Switch ❑ Shift Lever ❑ Accessory or attachment
- ❑ UPON COMPLETION, check for fuel or oil leaks.

PUMPS

- ❑ AIR FILTER—Ensure the filter is properly seated.
- ❑ ACCESSORY INSTALLATION
- ❑ ALL NUTS, BOLTS AND OTHER FASTENERS—Check and tighten if necessary.

CHECK OPERATION (fill the primer chamber and check pump operation using a vacuum gauge)

- ❑ Vacuum reading: _____ ❑ Governor
- ❑ Accessory
- ❑ UPON COMPLETION, check for fuel or oil leaks.

SNOWBLOWER/SNOWTHROWERS

- ❑ TRANSMISSION FLUID—Check the fluid level and check for leaks.
- ❑ CLUTCH LEVER FREE PLAY—Adjust if necessary.
- ❑ AUGER CLUTCH LEVER—Check free play and adjust if necessary.
- ❑ TIRE PRESSURE—Check for proper tire pressure.
- ❑ ACCESSORY INSTALLATION
- ❑ ALL NUTS, BOLTS AND OTHER FASTENERS—Check and tighten if necessary.

CHECK OPERATION

- ❑ Governor ❑ Drive Clutch
- ❑ Auger Clutch ❑ Shift Lever ❑ Accessory
- ❑ UPON COMPLETION, check for fuel or oil leaks.

TILLERS

- ❑ AIR FILTER—Ensure the filter is properly seated.
- ❑ ACCESSORY INSTALLATION
- ❑ ALL NUTS, BOLTS AND OTHER FASTENERS—Check and tighten if necessary.

CHECK OPERATION

- ❑ Throttle lever ❑ Clutch lever ❑ Accessory
- ❑ Tine/drive clutch ❑ Shift lever
- ❑ UPON COMPLETION, check for fuel or oil leaks.

TRIMMERS/BRUSHCUTTERS

- ❑ AIR FILTER—Ensure the filter is properly seated.
- ❑ ACCESSORY INSTALLATION
- ❑ ALL NUTS, BOLTS AND OTHER FASTENERS—Check and tighten if necessary.
- ❑ CHECK Accessory Operation
- ❑ UPON COMPLETION, check for fuel or oil leaks.

UPON DELIVERY TO CUSTOMER

- ❑ REVIEW THE PRE-DELIVERY CHECK LIST
- ❑ PROVIDE PRE-DELIVERY CHECK LIST (YELLOW COPY)
- ❑ PROVIDE AND REVIEW THE OWNER'S MANUAL
- ❑ EXPLAIN THE SAFETY PRECAUTIONS
- ❑ EXPLAIN THE PRE-OPERATION TASKS
- ❑ EXPLAIN THE OPERATION
- ❑ EXPLAIN THE MAINTENANCE INTERVALS
- ❑ EXPLAIN PROCEDURES FOR INFREQUENT USE AND SEASONAL STORAGE REGARDING FUEL & BATTERY (as applicable)
- ❑ EXPLAIN SERVICE HOURS AND CONTACT INFO
- ❑ PROVIDE AND REVIEW THE *DISTRIBUTOR'S LIMITED WARRANTY* COVERAGE AND POLICIES
- ❑ FILL OUT THE OWNER'S SALES REGISTRATION CARD

The operation of this unit was reviewed with me by a representative of the dealership. I have reviewed and understand the warranty policy. I have visually inspected the unit and found no defects or damage.

DEALER NAME		
DEALER NO.	MODEL NAME	
INSPECTION/TESTS PERFORMED BY:		

CUSTOMER NAME		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE ( )		DATE
SIGNATURE		
FRAME SERIAL #:	ENGINE SERIAL #	

WHITE COPY–Dealer **YELLOW COPY**–Customer **TO056** OTR50671-H (2010.11)

HONDA