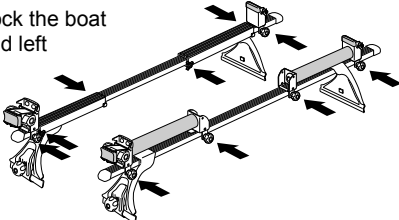


inno. **IN420 BOAT ATTACHMENT PRO** Installation Instructions **US**

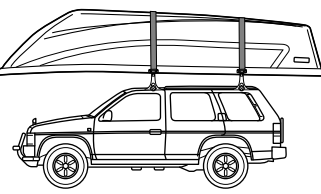
The following Installation Instructions explain how to mount and use the INNO Boat attachment system is designed for loading boat. After reading this manual, keep it in a safe place along with the installation instructions for attachment systems. If you have any questions regarding this manual, please contact the service center listed at the end.

CAUTION

Before driving the vehicle, rock the boat in the forward, back, right and left directions to ensure that there is no looseness in any of the ten mounting knobs. Retighten any loose knob.



Weight of boat must not exceed 154.2 lbs (70 kg). Maximum loading capacity depends on vehicle type, so calculate allowable capacity for your car and keep loading weight below this value.



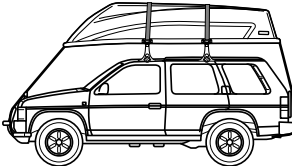
154.2 lbs/0 kg (70 kg) or less

How to calculate maximum loading capacity

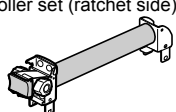
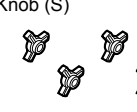
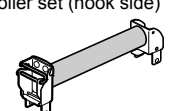


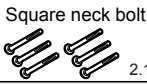


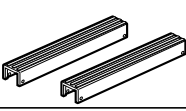


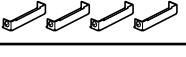
| | | | | |
|--|---|---|---|--|
| Max. loading capacity (not to exceed 70 kg/ 154.2 lbs) | = | Max. loading capacity for each vehicle type | - | (Weight of IN-20) 7.3 kg/16.1 lbs |
|--|---|---|---|--|

Check on INNO Fitting guide by Vehicle Type.

If boat is at least three times longer than distance between front and rear bars, or when driving at high speed, affix front and rear of boat to towing hook, etc., using separate belt.



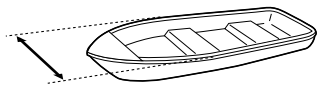
The Boat Attachment System includes the parts, components and items shown below. Verify that all of these parts, components and items are included in the carrier system you have purchased. In the event any of these parts, components or items is missing, contact our service center as listed at the end of this manual.

| No. | Part | Q'ty | No. | Part | Q'ty |
|-----|---|------|-----|---|------|
| ① |  Roller set (ratchet side) | 1 | ⑦ |  Knob (S) | 4 |
| ② |  Roller set (hook side) | 1 | ⑧ |  Knob (L) | 6 |
| ③ |  Front ratchet | 1 | ⑨ |  Square neck bolt (S) 2.1" (55mm) | 6 |
| ④ |  Front hook | 1 | ⑩ |  Square neck bolt (L) 2.7" (70mm) | 4 |
| ⑤ |  Cushion | 2 | ⑪ |  Belt | 2 |
| | | | ⑫ |  Bar cover | 4 |
| ⑥ |  Cushion bracket | 4 | ⑬ | Installation Instructions | 1 |

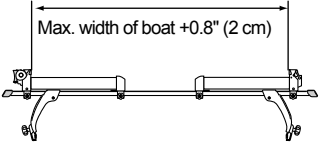
1 Mount the carrier stays and bars according to the procedures described in the Basic Carrier System Installation Instructions.

CAUTION
The clearance between the front and rear carriers (cross bar) should be in the range of 27.6" (70 cm) or more.

2 Measure maximum width of boat.



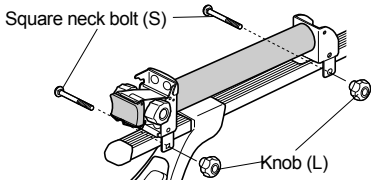
3 Place rollers at positions set apart by maximum width of boat + 0.8" (2 cm).



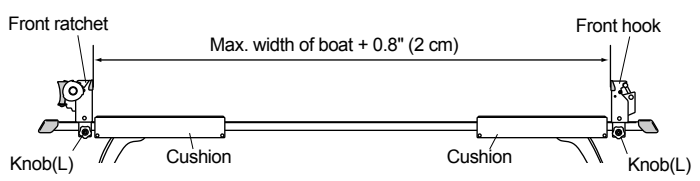
CAUTION
If roller fittings interfere with stay, install rollers on outer side of stay. If distance between rollers exceed maximum width of boat + 0.8" (2 cm), be sure to affix front and rear of boat to towing hook, etc. using separate belt or rope.

Note
If roller fittings interfere with end caps on bar, replace end caps with supplied bar covers.

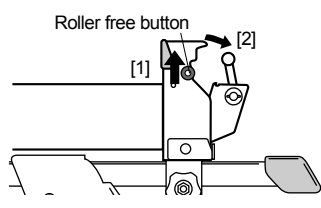
4 Affix roller set using square neck bolt (S) and knob (L).



5 Affix front ratchet and hook symmetrically using square neck bolts (S) and knobs (L), and place cushions on inside.

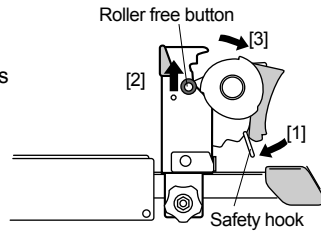


6 [1] Push up roller free button (red) on hook, and [2] tilt hook forward. (Do this for front and rear hooks on roller set and front hook sides.)



7 [1] Remove safety hook on ratchet, [2] push up roller free button (red), and [3] tilt ratchet forward.

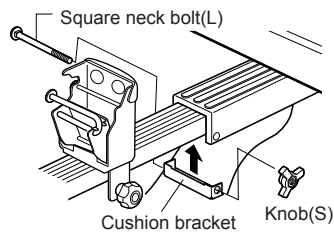
- Remove front and rear safety hooks on roller set and front ratchet sides.
- Ratchet may be tilted on roller set side only.



10 Attach cushion bracket and affix it to bar using square neck bolt (L) and knob (S).

Note

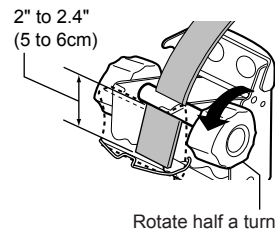
If square neck bolt interferes with stay, affix only one side.



16 Guide belt end on ratchet side through slit at reel.

Note

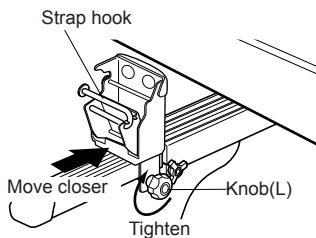
Insert belt into slit by 2.0" to 2.4" (5 to 6 cm) and then rotate ratchet knob by half a turn. Belt end now faces up and drawing out belt becomes easy.



11 Move front ratchet and hook as close as possible to cushions and tighten knobs (L) to affix to bar.

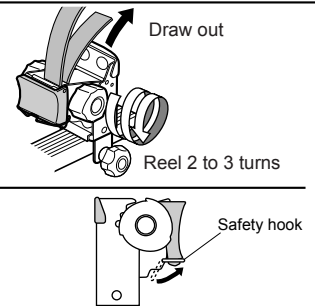
CAUTION

If large gap remains between front ratchet/hook and cushion, affix front and rear of boat to towing hook, etc., using separate belt or rope.



17 Draw out belt slightly and turn ratchet knob to secure boat. Belt should be reeled 2 to 3 turns.

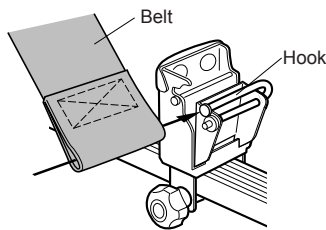
Place safety hook at ratchet onto lever. Confirm click sound.



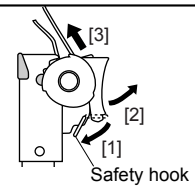
12 Guide folded end of belt over hook on roller set (hook side) and front hook.

CAUTION

Belt must securely engage with hook.



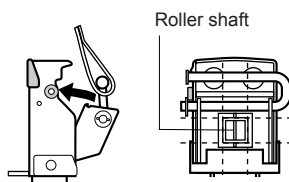
18 [1] Remove safety hooks on front and rear ratchets, [2] lift lever, and [3] loosen belt and draw out.



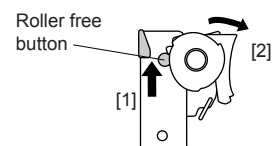
13 Raise hook until click sound is heard. Shake hook to confirm belt is held securely.

Note

If roller set (hook side) doesn't make click sound, turn roller until end face of roller shaft lies vertical.



19 [1] Push up roller free buttons (red) on all ratchets and hooks, and [2] tilt ratchets and hooks forward.



14 Throw belt over to the other side of car across boat.



20 Throw drawn-out belt over to the other side of car, remove belt from hooks, and store belt away from direct sunlight.

21 [1] Pull boat toward rear until bow comes close to front bar.



[2] Pull boat all the way and place stern on ground.



[3] Remove boat from car.

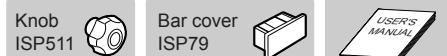
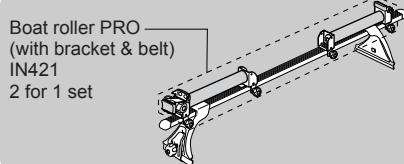
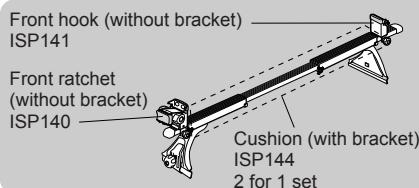


Information on genuine repair parts

The following genuine repair parts are available for the carrier system. Specify the part number when ordering any part from the store where you purchased your system.

Note

- The specifications and external appearance of the carrier system and genuine repair parts are subject to change without prior notice in the interest of product improvement.



Contact Information

If you have any comments or suggestions, please contact our service center listed. CAR MATE USA shall not be held liable for any accidents or incidental losses arising from improper installation or use, nor for those arising from installation or use after the customer has made any change to the system's original configuration or specifications.



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