

Installation Instructions PART NUMBERS: 24965, 77965, CQT24965

Applications:

Years Make Models

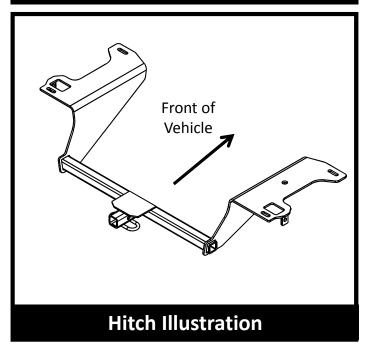
2011 - Current* Kia Optima
2011 - Current* Hyundai Sonata

Installation Time: 40 min

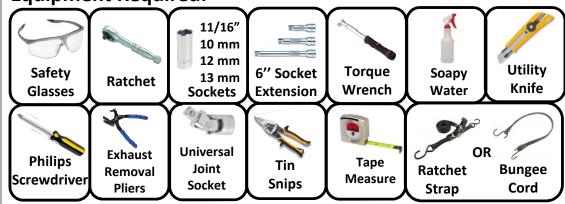
The time listed above is the average time for professional installers. If you do not feel comfortable performing this installation on your own or are in need of assistance, please contact a professional installer.

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Representative Vehicle Photo

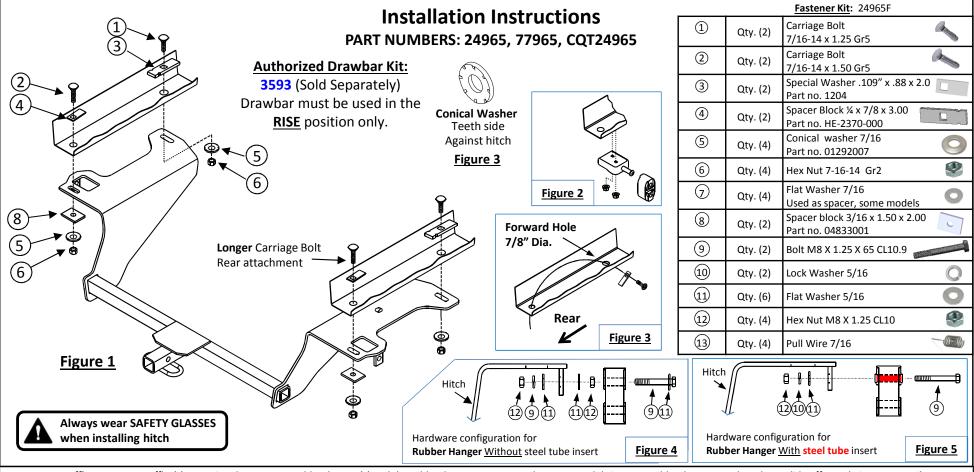


Equipment Required:



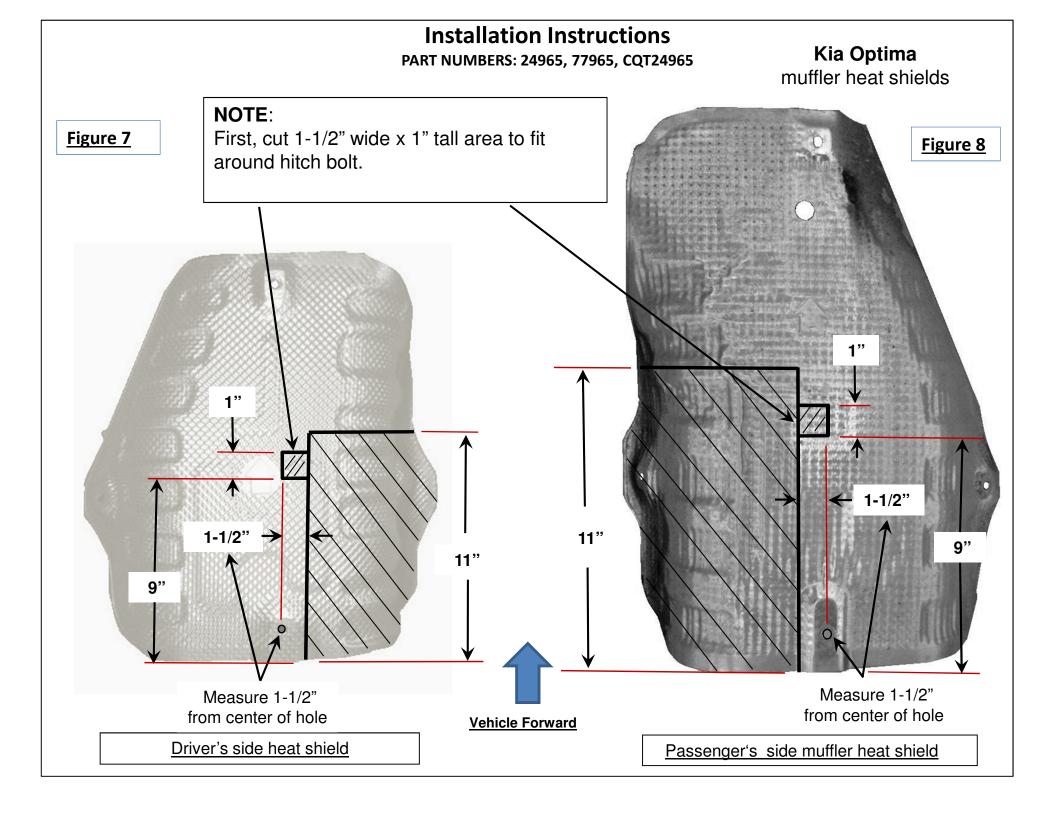
DO NOT EXCEED LOWER OF TOWING VEHICLE MANUFACTURER'S RATING OR:

Hitch Type	Max Gross Trailer Weight	Max Tongue Weight
Weight Carrying	2000 lb. (908 kg)	200 lb. (90.8 kg)
Weight Distributing	X	X



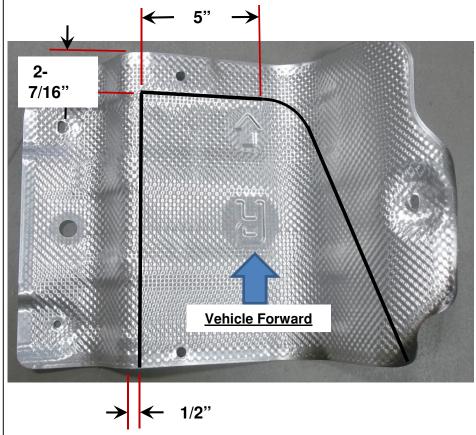
- 1. Lower mufflers Lower muffler(s) removing the rearmost rubber hanger(s) and the rubber hanger near rear axle. A spray a lubricant on rubber hangers makes them slide off metal pins more easily. NOTE: Be careful that exhaust is supported before removing rubber hangers. See Figure 2.
- 2. Remove factory muffler hanger bracket(s) Remove (2) hex nuts per hanger bracket to remove. Return bracket(s) and fasteners to vehicle owner. See Figure 2.
- 3. Remove drivers side plastic appearance panel (if present) Either return to vehicle owner or see Figure 10 for optional trimming of panel.
- 4. Remove plastic appearance panel (if present) covering space between bumper fascia and trunk pan Remove and return to vehicle owner.
- 5. Remove heat shield(s) Remove the hex nuts (3 to 5 per heat shield) holding heat shield(s) to bottom of vehicle. See next page for heat shield trimming. NOTE: Shield(s) will be trimmed and replaced prior to installing hitch.
- 6. Install rearmost attachment fasteners Using the 7/16 pull wires provided, install the 7/16 x 1.50 long carriage bolts and special washers (item 3) through the 7/8" diameter holes in bottom of frame, both sides. Pull carriage bolts down through 3/4" diameter holes toward rear of vehicle. See Figure 3.
- 7. Install forward attachment fasteners Using the 7/16 pull wires provided, install the 7/16 x 1.25 long carriage bolts and spacer blocks (item 4) up through 7/8" diameter holes and back down through same hole, both sides.
- 8. Trim heat shield(s) Trim heat shield(s), See figures 7, 8, and 9 for details on how to trim muffler heat shield(s).
- 9. Reinstall heat shields Reinstall heat shields using same hardware removed.
- 10. Raise hitch into position Install 7/16 conical toothed washers and hex nuts onto forward carriage bolt attachments. Install spacer blocks (item 8), 7/16 conical toothed washers and hex nuts onto rearmost carriage bolt attachments, See Figure 1. Be careful not to push bolts back into frame. NOTE: Insert 7/16" flat washers (item 7) as needed on rear attachments between hitch and frame to take up space for vehicles with raised area for muffler hangers. On dual exhaust vehicles, it may be necessary to push hitch towards the passenger side as far as possible so that hitch bracket is up against vehicle trunk pan. This allows more clearance for exhaust on Driver's side. Torque fasteners to specifications below.
- 11. Trim Fascia On some models it may be necessary to trim a small notch in the fascia at the rear edge of hitch side bracket.
- 12. Tighten all 7/16-14 fasteners with torque wrench to 50 Lb.-Ft. (68 N*M)
 - A Proper torque is needed to keep the hitch secure to the vehicle when towing.
- 13. Raise muffler(s) back into position Reattach rubber hangers as shown in Fig 4 or Fig 5. Tighten all M8 fasteners to proper torque specifications. NOTE: Hardware configuration varies by vehicle.
- 14. Reinstall plastic appearance panel Using existing hardware, reinstall panel removed in Step 3 if trimming was preferred by vehicle owner.

Note: check hitch frequently, making sure all fasteners and ball are properly tightened. If hitch is removed, plug all holes in trunk pan or other body panels to prevent entry of water and exhaust fumes. A hitch or ball which has been damaged should be removed and replaced. Observe safety precautions when working beneath a vehicle and wear eye protection. Do not cut access or attachment holes with a torch. This product complies with safety specifications and requirements for connecting devices and towing systems of the state of New York, V.E.S.C. Regulation V-5 and SAE J684.



Installation Instructions

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<u>Passenger's side muffler heat shield shown</u> <u>Driver's side opposite</u>

Hyundai Sonata

muffler heat shields

Figure 9



Plastic appearance panel

Optional trim or return to owner

Vehicle Forward



Figure 10

1. Lower mufflers – Lower muffler(s) by removing the rearmost rubber hanger(s) and the rubber hanger near rear axle. A spray a lubricant on rubber hangers makes them slide off metal pins more easily. NOTE: Be careful that exhaust is supported before removing rubber hangers.



2. Remove factory muffler hanger bracket(s) - Remove (2) hex nuts per hanger bracket to remove. Return bracket(s) and fasteners to vehicle owner.



3. Remove drivers side plastic appearance panel (if present) – Either return to vehicle owner or see figure 10 for optional trimming of panel.



4. Remove plastic appearance panel (if present) covering space between bumper fascia and trunk pan – Remove and return to vehicle owner.



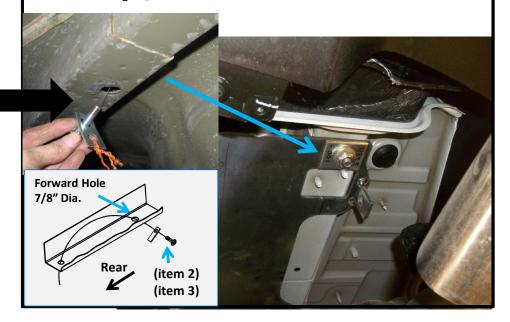
5. Remove heat shield(s) – Remove the hex nuts (3 to 5 per heat shield) holding heat shield(s) to bottom of vehicle. **NOTE:** Shield(s) will be trimmed and replaced prior to installing hitch.



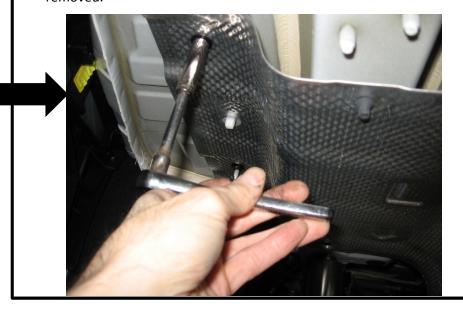
7. Install <u>forward</u> attachment fasteners – Using the 7/16 pull wires provided, fish wire 7/16 x 1.25 long carriage bolts and spacer block (item 4) up through 7/8" diameter holes and back down through same hole, both sides.



6. Install rear attachment fasteners - Using 7/16 pull wires provided, fish wire 7/16 x 1.50 long carriage bolts and special washers (item 3) through 7/8" diameter holes in bottom of frame, both sides. Pull carriage bolts down through 3/4" diameter holes toward rear of vehicle.



- 8. Trim muffler heat shield(s) Trim heat shield(s), See figures 7, 8, and 9 for details on how to trim muffler heat shield(s).
- 9. Reinstall heat shields Reinstall heat shields using same hardware removed.



10. Raise hitch into position - Install 7/16 conical toothed washers and hex nuts onto forward carriage bolt attachments. Install spacer blocks (item 8), 7/16 conical toothed washers, and 7/16 hex nuts onto rearmost carriage bolt attachments (Fig. 1). Be careful not to push bolts back up into frame. NOTE: Insert 7/16" flat washers (item 7) as needed on rear attachments between hitch and frame to take up space for vehicles with raised area for muffler hangers. On dual exhaust vehicles, it may be necessary to push hitch towards the passenger side as far as possible so that hitch bracket is up against vehicle trunk pan. This allows more clearance for exhaust on Driver's side. Torque fasteners to specifications below.



13. Raise muffler(s) back into position - Reattach rubber hangers as shown in Fig 4 or Fig 5. Tighten all M8 fasteners to proper torque specifications. **NOTE:** Hardware configuration varies by vehicle.



11. Trim Fascia – On some models it may be necessary to trim a small notch in the fascia at the rear edge of hitch side bracket.

12. Tighten all 7/16-14 fasteners with torque wrench to 50 Lb.-Ft. (68 N*M)

Proper torque is needed to keep the hitch secure to the vehicle when towing.

Conger Carriage Bolt Rear attachment

14. Reinstall plastic appearance panel – Using existing hardware, reinstall panel removed in Step 3 if trimming was preferred by vehicle owner.



On our website you can discover more about trailer hitches and towing.