

KIA Models

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| 15 | CV | EV6 | K | EV6 | 2108 | R1 | KEV62108R1 |
| 16 | MV | EV9 | K | EV9 | 2309 | R1 | KMV2306R1 |
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| 17 | CK | Stinger | K | CK | 1709 | R2 | KCK1709R2 |
| RELATED TECHNICAL HANDLING BULLETINS | | | | | | | |
| 18 | ALL | Seat Belts | H | ALL | 0919 | R1 | GHK1902R0 |
| 19 | ALL | Hybrids must be turned-off | H | ALL | 0825 | R0 | GHK2008R0 |
| 20 | ALL | No Starts | H | ALL | 0720 | R0 | GHK2007R0 |
| 21 | ALL | Covid-19 Protocol | H | ALL | 0720 | R1 | GHK20716R0 |
| 22-24 | ALL | Undelivered vehicles | H | ALL | 2308 | R1 | GHK2023R1 |
| 25 | ALL | STI - Key control process | H | ALL | 1020 | R0 | GHK2009R0 |

- ✓ Key FOB and Smart keys must be placed in Cup Holder.
- ✓ Flip keys that are closed may be placed in Cup Holder.



Key FOB



Smart key



Flip Key

- ✓ Mechanical Keys must be placed in Glove Box.
- ✓ Any set of keys with exposed mechanical key must be placed in Glove Box.





Mechanical Key



Key Set

- ✓ As a theft prevention measure, remove all keys from the last vehicle loaded on trucks.

Technical Bulletin

| | | | |
|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KBD1808R2 | TEST DATE: 08/23/2018 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: BDm |
| SUBJECT: MY2021 KIA Forte | | | |

COMMENTS:

1. TRUCK HAUL-AWAY

- a. **Upper Deck:** Approved for all upper deck positions. Avoid using wheel pocket extensions in the head rack position due to insufficient undercarriage clearance when the Forte is facing the forward position.
- b. **Lower deck:** Approved for all lower trailer positions. Use caution over the trailer's tandem wheels and ramp break-over points due to reduced undercarriage clearance.
- c. **Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

2. RAIL LOADING

- a. **Tri-level rail cars:** Approved for all loading positions. Low-pro chocking systems are the preferred vehicle restraint system. SCT Copolymer or similar off-brand chock sets are prohibited from use, should the Forte have installed mudguards. Follow AAR policy for installing, spacing and removing chocks. Install chocks firmly against tires.
- b. **Bi-level rail cars:** May be utilized in the event of a tri-level railcar shortage. Fortes are approved for all loading positions. Place chock setting in the highest setting maintaining a minimum of 2" (5.08 cm) clearance between the chock and any vehicle component.

3. GENERAL

- a. KIA Forte has a minimum ground clearance of approximately **5.3 in.** (13.46 cm)
- b. The KIA Forte must be shipped with front tires in the straight forward position, the transmission in "Park" or "first gear" for manual transmissions and its parking brake fully engaged.
- c. Key Placement: Smart and flip keys, close key into fob, place into Cup Holder. Exposed mechanical keys, place in Glove Box.
- d. Seat belts must be worn at all times.

Specifications

| <u>Forte FE, LXS, GT-Line, EX</u> | <u>Forte GT</u> |
|--------------------------------------|-----------------------------------------------|
| 2.0 L I4 MPI DOHC 147 hp @ 6,200 rpm | 1.6 L I4 Turbo DOCH GDI 201 hp @ 6,000 rpm |
| Weight: 2,908 lbs./1,319.05 kg | Weight: 3,079 lbs./1,396.61 kg |
| Wheelbase: 106.3 in/270.00cm | Wheelbase: 106.3 in/270.00 cm |
| Length: 182.7 in/464.06 cm | Length: 182.7 in/464.06 cm |
| Width: 70.9 in/180.09 cm | Width: 70.9 in/180.09 cm |
| Height: 56.5 in/143.51 cm | Height: 56.5 in/143.51 cm |
| Wheels: 15, 16 or 17 in | Wheels: 18 in (38.1, 40.64, 43.18 & 45.72 cm) |
| Transmission: M or AT | Transmission: M or AT |





All weights and dimensions are approximate and subject to change without notice.

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Revision R2

Technical Bulletin

| | | | |
|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KSC1710R2 | TEST DATE: 10/04/2017 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: SCm |
| SUBJECT: MY2021 KIA Rio and Rio 5-Door | | | |

COMMENTS:

1. TRUCK HAUL-AWAY

- Upper Deck:** Approved for all upper deck positions. Avoid using wheel pocket extensions in the head rack position due to insufficient undercarriage clearance when the Forte is facing the forward position.
- Lower deck:** Approved for all lower trailer positions. Use caution over the trailer's tandem wheels and ramp break-over points due to reduced undercarriage clearance.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

2. RAIL LOADING

- Tri-level rail cars:** Approved for all loading positions. Low-pro chocking systems are the preferred vehicle restraint system. SCT Copolymer or similar off-brand chock sets are prohibited from use, should the RIO and RIO 5's have installed mudguards. Follow AAR policy for installing, spacing and removing chocks. Install chocks against tires.
- Bi-level rail cars:** May be utilized in the event of a tri-level railcar shortage, RIO and RIO 5's are approved for all loading positions. Place chock setting in the highest setting that will maintain a minimum of 2" clearance between the chock and any vehicle component.

3. GENERAL

- KIA RIO has a minimum ground clearance of approximately 5.5 inches (13.97 cm).
- The KIA RIO must be shipped with front tires in the straightforward position, with the automatic transmission placed in "Park" position and its parking brake fully engaged.
- Key Placement: Smart and flip keys, close key into fob place in cup holder. Exposed mechanical keys place in Glove Box.
- Seat belt must be worn when operating vehicle.

Specifications



Rio LX S

1.6 L I4 DOHC 120 hp. @ 6,300 rpm.
Weight: 2,767 lbs. / 1,255.09 kg
Wheelbase: 101.6 in / 258.06 cm
Length: 172.6 in / 438.40 cm
Width: 67.9 in / 172.47 cm
Height: 57.1 in / 145.03 cm
Wheels: 15 in / 38.1 cm
Transmission: AT

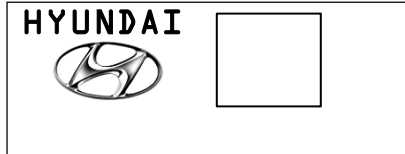
5 Door S

1.6 L I4 Gamma II MPI 120 hp
Weight: 2,765 lbs. / 1,254.18 kg
Wheelbase: 101.6 in / 258.06 cm
Length: 160.0 in / 406.4 cm
Width: 67.9 in / 172.47 cm
Height: 57.1 in / 145.03 cm
Wheels: 15 in / 38.1 cm
Transmission: AT

*All weights and dimensions are subject to change without notice

Technical Bulletin

| | |
|----------------------|---------------------|
| NUMBER: KDL3420R1 | DATE: 04/28/2020 |
| MODEL YEAR: 2021 | MODEL: DL3 |



SUBJECT: **MY2021 Kia K5 Sedan**

COMMENTS:

TRUCK HAULAWAY

Upper trailer deck (Both Day and Sleeper Cabs): K5 vehicle restriction: regardless of the tractor or trailer's manufacturer or the trailer's length, the *Kia K5 may only be loaded facing forward in the trailer's #1 headrack position.* Use a high pocket position in the trailer headrack to prevent fascia or suspension damage. *Sleeper Cabs: trailer position #3 is an excluded vehicle position to transport the Kia K5.*

Lower trailer decks (Day and Sleeper Cabs): Lower trailer deck restriction: *trailer vehicle position #7 is a restricted loading position. Carriers may only load the K5 facing backwards in #7-bottom trailer position near the stinger.* Should your lower deck equipment not handle the K5 loaded backwards, contact your dispatch office for a replacement vehicle having a higher clearance/profile needed for that position. Except for the end vehicle position, load bottom trailers units backwards whenever possible.

- a. Reduce loading speeds when backing a K5's onto a trailer skids. Vehicle has an estimated **5.3 in. (13.46 cm) of ground clearance.** Use caution, in the bottom trailer over the tandem area as the K5's rocker panel can drop to less than 1" (2.54 cm) of deck clearance on some equipment.
- b. **Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of vehicle securement is strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls or strap contact with undercarriage components is also prohibited.

RAIL LOADING

Standard tri-level railcars: 2021 K5 "A" deck rail loading restriction: Typically 5 vehicles are shipped on a standard tri-level 'A' deck. **However, only (4) K5's can be shipped on "A" deck due to low roof/antenna clearance in the 'A5' position.** If available, place a smaller profile vehicle into the 'A1', 'A5' or into another vehicle position; that will allow the K5's to move forward or backwards on the 'A' deck to provide the necessary 3" AAR roof clearances. The standard tri-level 'B' & 'C' decks the K5 is approved in all loading positions.

- a. **Install chocks firmly against vehicle tires.** Avoid using SCT Copolymer chock systems whenever possible, as vehicle wind and mudguard clearances can be problematic.
- b. Maintain a min. of 2" (5.08 cm) clearance between the chock and any vehicle body panel and its components. Follow AAR policy for vehicle spacing, installing and removing securements.

AutoMax tri-level railcars: Approved conveyance. Load only (2) DL3's on 'A' deck and a smaller vehicle in A3 or in A6 position. Avoid using 6" SCT Copolymer chock systems. No restriction on 'B' & 'C' decks, may load four units on each deck, per railcar. Follow AAR policy for vehicle spacing, installing and removing of securements. Install chocks firmly against vehicle tires.

Bi-level railcars: Standard bi-level railcars are an approved conveyance, should tri-level railcars become unavailable. The Kia K5 is approved in all bi-level railcar-loading positions. Follow AAR policy for vehicle spacing, installing and removing of securements. Install chocks firmly against vehicle tires.

GENERAL

- a. The Kia K5 has approximately **5.3 in. (13.46 cm) of ground clearance.**
- b. The K5 sedan must be shipped with its front tires in the straightforward position, the transmission in "Park" position and its parking brake fully engaged.
- c. Key/FOB placement: Close key and place in cup holder.
- d. Always wear a seatbelt when operating vehicle.



| | |
|---------------------|------|
| TRUCK LOAD FACTOR | |
| DL3K | DL3K |
| 4 | 8 |
| RAILCAR LOAD FACTOR | |
| A3K | B3K |
| 4 | 5 |
| 5 | 14 |

Kia K5 DL3 Specifications:

Models: LX, LXS, EX, GT-Line, GT 1.6T or 2.5T

Specifications: Curb Weight range: FWD 3,115 lbs. – 3,228 lbs. (1,416 kg – 1,467.3 kg). AWD To Be Determined. Test vehicle was 3,400 lbs. (1,545.45 kg)

Vehicle Specs: Vehicle wheelbase: 112.2 in. (285 cm)



Length: 193.1 in. (490.5 cm)

Width: 73.2 in. (186 cm)

Height: 56.9 in. (144.5 cm)

Wheels: 16 in., 19 in. Alloy (40.64, 48.26 cm)

Technical Bulletin

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|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KJFEV1512R2 | TEST DATE: 2/07/2011 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2019 - 2020 | MODEL CODE: JFHEV, JFPHEV |
| SUBJECT: MY2019 - 2020 KIA Optima Hybrid & Plug-In | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper deck:** Approved for all upper deck positions. Avoid using wheel pocket extensions.
- Lower deck:** Approved for all lower trailer positions. **Caution:** Reduce vehicle loading speeds when backing Optima's onto skids and over trailer rear tandems and ramp break-over areas. The front fascia can drop to *less than 2 in. (5.08 cm) of ground clearance.*
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAILLOADING

- Standard tri-level railcars: "A" deck restriction:** Only four (4) Optima's may be loaded on the railcar "A" deck due to low roof/antenna clearance. Place a smaller vehicle like a Kia Forte or similar into the "A1" or "A5" position to provide proper spacing 3 in. (7.62 cm) AAR roof clearance. Tri-level "B" and "C" decks are approved for all loading positions.
- Tri-level loading:** *Use low-profile chock systems only.* When installing chocks, place chocks firmly against vehicle tires.
- Bi-level railcars:** Approved for all loading positions. Place all chocks in highest setting that will maintain a minimum of 2 in. (5.08 cm) clearance between chock and any vehicle component.

GENERAL

- The 2019 and 2020 Kia Optima have *limited ground clearance of approximately 5.1" (12.95 cm).*
- EV and PHEV (Plug-in) recharging is restricted to trained personnel only.** High voltage cables and connectors are orange in color. Do not touch high voltage components, cables or connections without proper protective gear. Failure to observe warning could result in electrical shock, injury or even death.
- 'No start' hybrid or electric vehicles: please contact the GLOVIS Claims Department for directions 1-866-445-6847. Battery charging kit responsibility follows the carrier chain of custody rules.
- Key placement: Smart and flip keys, close key into fob place in cup holder. Exposed mechanical keys place in glove box.
- Vehicle must be shipped with its front tires in the straight forward position, the transmission in "Park" position and its parking brake fully engaged.
- Seat belts must be worn when operating vehicle.



Specifications

Hybrid and Plug-In, EX

2.0L I4 PHEV/GDI 50 kw /67 hp., combined 202 hp

Wheelbase: 110.43 in. (280.49 cm)

Length: 191.10 in. (485.39 cm)

Width: 73.20 in. (185.93 cm)

Weight: 3,486 – 3,788 lbs. (1,718.21 kg) / Clearance **5.1 in.** (12.95cm)

Height: 57.50 in. (146.05 cm) / Wheels: 17 in. (43.18 cm)

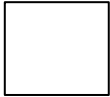
*All weights and dimensions are subject to change without notice.

Technical Bulletin

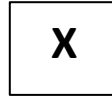
NUMBER:
KDE1609R4

TEST DATE:
09/15/2016

HYUNDAI



KIA



MODEL YEAR:
2021

MODEL CODE:
DE

SUBJECT:

MY2021 KIA Niro Hybrid

COMMENTS:

TRUCKHAUL-AWAY

- Upper deck:** Approved for all upper deck positions. Always check vehicle load heights for compliance of Federal and State 13'.6" or 14' height limitations.
- Lower deck:** Approved for all lower trailer positions.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAILLOADING

- Standard tri-level railcars:** *Not an approved conveyance.*
- AutoMax railcars:** Approved for all decks levels. Approved for all load positions except 'A' deck where vehicles must be secured a minimum 1/2 car length from any end door to provide necessary 3 in. (7.62 cm) roof clearance.
- Bi-level railcars:** Approved for all deck levels and loading positions. Grate lock chocks should be placed in the highest setting that will maintain a minimum of 2 in. (5.08 cm) clearance between the chock and any vehicle component.

GENERAL

- The KIA Niro has approximately **6.3 in.** (16.00 cm) of ground clearance.
- EV recharging is restricted to trained personnel only.
- Vehicle must be shipped with its front tires in the straightforward position, the transmission in "Park" position and its parking brake fully engaged.
- Seat belt must be worn when operating vehicle.
- Key placement: Smart and flip keys, close key into fob place in cup holder. Exposed mechanical keys, place in glove box.



Specifications:

MY2021 KIA Niro LX, LXS, Touring, Touring SE, EX Premium

1.6L I4 GDI 104hp. at 5,700rpm

AC Sync. Permanent Magnet Electric Motor 240V/43hp. Combined power 139hp.

Est. Max. Curb weight: 3,192 lbs. to 3,280 lbs. (1,448 - 1,488 kg) for Touring & Touring SE

Length: 171.5 in. (436cm)

Width: 71.1 in. (181cm)

Height: 60.8 in. with roof rails (154cm)

Wheels: 16 & 18 in. Alloy (41cm, 46cm)

Transmission: Automatic



**All weights and dimensions are subject to change without notice*

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Technical Bulletin

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|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KDEEV1609R4 | TEST DATE: 09/15/2016 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: DEPHEV DEEV |
| SUBJECT: MY2021 KIA Niro Plug-in and Electric Vehicle | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper deck:** Approved for all upper deck positions. Always check vehicle load heights for compliance of Federal and State 13'.6" or 14' height limitations.
- Lower deck:** Approved for all lower trailer positions with exception of position #6 behind the cab on short ramps seen on many 65' trailers, or trailers with limited overhead clearances.
- Soft-tie wheel straps are required on all four (4) tires.** Cr or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAIL LOADING

- Standard tri-level railcars:** *Not an approved conveyance.*
- AutoMax railcars:** Approved for all decks levels. Approved for all positions except 'A' deck where vehicles must be secured a minimum 1/2 car length from any end do load provide the necessary or to
- Bi-level railcars:** Approved for all deck levels and loading position placed in the highest setting that will maintain a minimum of 2 in. (5. s. Gram) clearance between the chock and any vehicle component. 08 c

GENERAL

- The KIA Niro has approximately **6.1 in.** (15.49 cm) of ground clearance.
- Hybrid, EV and PHEV (Plug-in) recharging is restricted to trained personnel.** y. High voltage cables and *el onl*s or connections without cable lock, injury or even death.
- 'No start' hybrid or electric vehicles: please contact the GLOVIS Claims Department for directions at cal shment for directions at art of custody rules.
- Key placement: Smart and flip keys, close key into fob place in cup holder. hain Exposed mechanical keys der.
- Vehicle must be shipped with its front tires in the straightforward position and its parking brake fully engaged. e transmission in "Park"
- Seat belts must be worn when operating vehicle. n, th

2021 Kia Niro PHEV Specifications

LXS, EX and EX Premium
1.6L Gasoline Direct Injection (GDI)
AC Synchronous Magnet Motor
360 V, 60 hp. / 59 kW - 139 hp. combined
Wheelbase: 106.3 in. (270 cm)
Length: 171.5 in. (435.61cm)
Width: 71.1 in. (180.59cm)
Height, with roofrails: 60.8 in. (154.43cm)
Min. ground clearance: 6.3 in. (16.00cm)
Est. curb weight: LXS: 3,384 lbs.
EX: 3,384 lbs. EX Prem. 3,443 lbs.

2020 Kia Niro EV Specifications

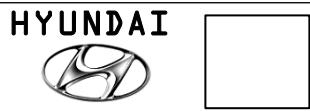
EX & EX Premium
356 V, 150 kW, AC Synchronous Magnet Motor
201 hp / 150 kW@ 3,800-8,000 rpm
Wheelbase: 106.3 in. (270.00 cm)
Length: 172.2 in. (437.39 cm)
Width: 71.1 in. (180.59 cm)
Height: 61.8 in. (156.97 cm)
Min. ground clearance: 6.10 in. (15.49 cm)
Est. curb weight: 3,799 lbs. / 1,723 kg

*All weights and dimensions are subject to change.



Technical Bulletin

| | |
|------------------------|---------------------|
| NUMBER: KA4202112R1 | DATE: 12/11/2020 |
| MODEL YEAR: 2022 | MODEL: KA4 |



SUBJECT:

MY2022 Kia Carnival MPV

COMMENTS:

TRUCK HAULAWAY

- Upper decks:** No vehicle Restriction. Maintain U.S. FMCSA 13'.6" or State 14' load height limitations where applicable on upper decks.
- Lower decks:** Always maintain a minimum of 4" (10.16 cm) space separation between upper and lower deck vehicles. **Use caution:** when loading the 2022 Kia Carnival in both #6 and #7 positions simultaneously, as not all trailer configurations can accommodate the Carnival's length in the stinger's pivot area and can cause impact turn damage.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of vehicle securement except soft-tie tire straps is strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls or strap contact with undercarriage components is prohibited.

RAIL LOADING

Bi-level railcars: Bi-level railcars are the 2022 Kia Carnival's primary railcar conveyance. The Carnival is approved for all deck positions. Utilize the highest chock setting that maintains a minimum 2" (5.08 cm) clearance between the chock and any vehicle component. Recommend Grate and Grip Lock chocks® front chock faceplates are set at medium setting, high setting on rear chocks. Place all chocks firmly against vehicle tires. Follow AAR loading and spacing guidelines.

- Tri-level railcars:** Standard tri-level railcars are not an approved conveyance.
- AutoMax railcars:** The Carnival is approved for AutoMax railcar shipment on 'B' and 'C' decks only. Load AutoMax 'B' deck: 4 vehicles, 'C' deck: 4 vehicles. Use caution when entering or exiting 'B' decks due to lower deck clearances. Place all chocks firmly against vehicle tires. Follow AAR loading and spacing guidelines.

GENERAL



- The 2022 Kia Carnival (KA4) has an estimated minimum 6.8 in. (17.27 cm) of ground clearance.
- The Carnival must be shipped with its front tires in the straightforward position, the transmission in "Park" position and parking brake fully engaged.
- Always wear a seatbelt when operating vehicle.
- Key placement: Close key in fob and place in cup holder or glovebox.



Specifications
 3.5-liter V6 GDI Lambda III Engine
weight range: Approximately 4,376 lbs. (1,985 kg) - 4,727 lbs. (2,144 kg)
Vehicle wheelbase: 121.7 in. (309.12 cm)
Length: 203 in. (515.62 cm)
Width w/mirrors: 89.2 in. (226.57 cm)
Height: 69.9 in. w/rails (177.55 cm)
Min. ground clearance: 6.8 in. (17.27 cm)
Wheels: 17 in. or 19 in. (43.18 cm or 48.26 cm)

All weights and dimensions are approximate and are subject to change.

Technical Bulletin

| | | | |
|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KSK31903R1 | TEST DATE: 03/01/2019 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: SK3 |
| SUBJECT: MY2021 KIA SOUL | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper Deck:** Approved for all upper deck positions. Always check vehicle load heights for compliance of state 13'.6" or 14' height limitations.
- Lower deck:** Approved for all lower trailer positions. Drivers use caution loading in position #6 on short ramps or trailers having limited overhead clearances. Maintain a minimum of 4" (101.60mm) separation between upper and lower vehicles.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAIL LOADING

- Bi-level railcars:** Approved for bi-level railcar shipment. Loaders utilize the highest chock setting that will maintain a minimum of 2" clearance between the chock and any vehicle body panel or its components.
- Tri-level railcars:** *Standard tri-level railcars not approved.*
- AutoMax railcars:** Approved for AutoMax railcar shipment. Loaders maintain a minimum of 2" clearance between the chock and any vehicle body panel or its components. 3" overhead deck to vehicle roof clearance is required on 'A' deck inclines. Load AutoMax - A deck: 3, B deck: 4, C deck: 4. 22 vehicle railcar capacity.

GENERAL



- 2020 KIA Soul has approximately **6.7 in. (17.02 cm) minimum ground clearance.**
- Seat Belt(s) must be worn at all times.**
- Vehicle must be shipped with its front tires in the straight forward position, the transmission in "Park" position and its parking brake fully engaged.



Specifications

LX, X Line, S, EX, GT Line, Turbo
2.0L I4 MPI & 1.6L T I4 GDI
 Curb weight range: 2,802 lbs. - 3,036 lbs. (1,270.97 kg - 1,377.11 kg)
 Minimum ground clearance: 6.7" (17.02 cm)
 Wheelbase: 102.4 in. (260.10 cm)
 Length: 165.2 in. (419.61 cm)
 Width: 70.9 in. (180.09 cm)
 Height: 63.0 in. (160.02 cm)
 Wheels: 16" Steel/Alloy 17" or 18" Alloy (40.64 cm to 45.72 cm)
 Transmission: 6 Speed Manual, i-VT or Dual Clutch Automatic
 *All weights and dimensions are subject to change without notice.

Technical Bulletin

| | | | |
|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KSK3EV1903R2 | TEST DATE: 3/01/2019 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2019 -2020 | MODEL CODE: SK3EV |
| SUBJECT: MY2019 - 2020 KIA Soul EV | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper deck:** Approved for all upper deck positions. Always check vehicle load heights for compliance of Federal and State 13'.6" or 14' height limitations.
- Lower deck:** Approved for all lower deck positions. Drivers use caution loading in position #6 on short ramps or trailers having limited overhead clearances. Maintain a minimum of 4 in. (10.16 cm) separation between upper and lower vehicles.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAIL LOADING

- Standard tri-level railcars:** *Not an approved conveyance.*
- AutoMax railcars:** Approved for AutoMax railcar shipment. Loaders maintain a minimum of 2 in. (5.08 cm) clearance between the chock and any vehicle body panel or its components. 3 in. (7.62 cm) overhead deck to vehicle roof clearance is required on 'A' deck inclines. Load AutoMax A decks: 3, B decks: 4, C decks: 4. 22 vehicle railcar capacity.
- Bi-level railcars:** Approved for all loading positions. Loaders utilize the highest chock setting that will maintain a minimum 2 in. (5.08 cm) of clearance between the chock and any vehicle component.

GENERAL

- The Kia Soul EV has limited ground clearance of approximately 5.9" (14.99 cm).
- 'No start' hybrid or electric vehicles: please contact the GLOVIS Claims Department for directions 1-866-445-6847. EV battery charging kit responsibility follows the carrier chain of custody rules.
- EV recharging is restricted to trained personnel only. High voltage cables and connectors are orange in color. Do not touch high voltage components, cables or connections without proper protective gear. Failure to observe this warning could result in electrical injury or even death.
- Vehicle must be shipped with its front tires in the straight forward position, the transmission in "Park" position and its parking brake fully engaged.
- Seat belts must be worn when operating vehicle.



Specifications EV Base, EV +

AC Synchronous Permanent Magnet 360V, 109 hp (81.4 kW)
Est. weight: 3,289 - 3,366 Lbs. (1,491.87 - 1,526 kg)
Wheelbase: 101.2 in (257.05 cm)
Length: 163.0 in (414.02 cm)
Width: 70.9 in (180.09 cm)
Height: 63.0 in (160.02 cm)
Wheels: 16 in (40.64 cm)
Transmission: AT

*All weights and dimensions are subject to change without notice



17305 Von Karman, Suite 200
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QUALITY
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Revision R2

Technical Bulletin

| | |
|-----------------------|---------------------|
| NUMBER: KMQ42008R0 | DATE: 08/17/2020 |
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|----------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|---------------------|---------------|
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> | MODEL YEAR: 2021 | MODEL: MQ4 |
|----------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|---------------------|---------------|

SUBJECT:
MY2021 Kia Sorento SUV

COMMENTS:

TRUCK HAULAWAY

- Upper decks:** No vehicle Restriction. Maintain U.S. FMCSA 13'.6" or State 14' load height limitations where applicable on upper decks.
- Lower decks:** Always maintain a minimum of 4" (10.16 cm) space separation between upper and lower deck vehicles. **Use caution:** when loading the Kia Sorento in both #6 and #7 positions simultaneously, as not all trailer configurations can accommodate the Sorento's length in the stinger's pivot area and can cause impact turn damage.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of vehicle securement except soft-tie tire straps is strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls or strap contact with undercarriage components is prohibited.

RAIL LOADING

- Bi-level railcars:** Bi-level railcars are the 2021 Kia Sorento's primary conveyance, and the Sorento is approved for all deck positions. Utilize the highest chock setting that maintains a minimum 2" (5.08 cm) clearance between the chock and any vehicle component. Holden Grate Lock chocks® set the front chock faceplates at medium setting. Follow AAR loading and spacing guidelines.
- Tri-level railcars:** *Standard tri-level railcars are not an approved conveyance.*
- AutoMax railcars:** the Sorento is approved for AutoMax railcar shipment. AutoMax 'A' decks: maximum of '2' Sorento's vehicle capacity. Ship the Sorento on 'A' deck's on flatter railcar surfaces only. Sorento may be shipped with 1 smaller vehicle (if available) at either end door position on 'A' decks, provided that the smaller unit is permitted to utilize SCT Copolymer chock sets. Maintain a min. of 3" overhead spacing on 'A' deck. Load AutoMax 'A' decks: 2 Sorento's plus 1 smaller unit, 'B' deck: 4 vehicles, 'C' deck: 4 vehicles. Use caution when entering or exiting 'B' decks. Always follow AAR loading and spacing guidelines. Place all chocks firmly against vehicle tires.

GENERAL



- The 2021 Kia Sorento has an estimated minimum 7.28 (18.5 cm) inches of ground clearance.
- The Sorento must be shipped with its front tires in the straightforward position, the transmission in "Park" position and parking brake fully engaged.
- Always wear a seatbelt when operating vehicle.
- Key placement: Close key in fob and place in cup holder or glovebox.



Specifications:
2.5L I4 DOHC GDI 16-v
Curb Weight range: 3,882 lb. (1,764 Kg) - 4,120 lb. (1,869 Kg)
Vehicle Specs: Vehicle wheelbase: **110.9 in.** (281.69 cm)
 Length: **189.5 in.** (481.33 cm)
 Width: **74.9 in.** (190.25 cm)
 Height: **67.0 in.** (170.18 cm)
 Min. ground clearance: FWD- **7.28 in.** (18.5 cm) AWD- **8.27 in.** (21.01 cm)
Wheels: 17", 18", 20" (43.18 cm, 45.72 cm, 50.7 cm)

All weights and dimensions are approximate and are subject to change.

Technical Bulletin

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|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KSP21912R0 | TEST DATE: 12/18/2019 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: SP2 |
| SUBJECT: MY2021 KIA Seltos SUV | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper Deck:** The KIA Seltos is approved for all trailer upper deck positions. Always check vehicle load heights for compliance with U.S. FMCSA 13'6" or State 14' load height limitations where applicable.
- Lower deck:** The Seltos (SP2) is approved for all lower trailer positions.
Use caution: when loading the KIA Seltos in position #6 behind the driver's cab, not all trailer configurations can accommodate the Seltos size or on trailers having limited overhead clearances. Always maintain a minimum of 4" (10.16cm) space separation between upper and lower vehicles.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAILLOADING

- Bi-level railcars:** The KIA Seltos is approved for bi-level railcar shipment. Loaders utilize the highest chock setting that will maintain a minimum of 2" (5.08 cm) clearance between the chock and any vehicle body panel or its components.
- Tri-level railcars:** *Standard tri-level railcars are not an approved conveyance.*
- AutoMax railcars:** Approved for AutoMax railcar shipment. *KIA Seltos SUV AutoMax restriction:* AutoMax 'A' deck is limited to 2' Seltos SP2's on flat surfaces only. A smaller vehicle may be shipped behind the 2 SP2's in the 'A3' and 'A6' ramp positions, provided that the smaller unit is permitted to utilize SCT Copolymer chock sets. Always maintain a minimum of 2" (5.08 cm) clearance between the rail chock and any vehicle body panel or its components.

GENERAL

- 2021 KIA Seltos has approximately **7.2 in. (18.29 cm) minimum ground clearance.**
- Seat Belt(s) must be worn at all times.
- Vehicle must be shipped with its front tires in the straight forward position, the transmission in "Park" position and its parking brake fully engaged.

Specifications

Models: LX, S, EX & SX Engines: 1.6L T14 MPI or 2.0L MPI

Curb weight range: **TBD** Estimated 2,732 lbs. (1,239.21 kg)

Minimum ground clearance: 7.2" (18.29 cm)

Wheelbase: 103.5 in. (262.89 cm)

Length: 172.0 in. (436.88 cm) Width: 70.9 in. (180.09 cm)

Height: 63.6 in. w/rails (161.54 cm)



Wheels: 17" or 18" Alloy (43.18 cm or 45.72 cm)

Transmission: 7 Speed Dual Clutch (S & SX) or I-VT Intelligent Variable Automatic (LX, EX)

**All weights and dimensions are subject to change without notice.*



Technical Bulletin

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| | | NUMBER: KQL1512R4 | TEST DATE: 2/01/2010 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: QL |
| SUBJECT: MY2021 KIA Sportage | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper deck:** Please make every effort when *loading the Kia Sportage in the trailer's headrack and other upper trailer positions, please face the vehicle in the forward direction whenever possible* without compromising DOT weight guidelines or trailer load factors.
- Always check vehicle load heights for compliance** of Federal and State 13'.6" or 14' height limitations.
- Lower deck:** Approved for all lower deck positions. Drivers use caution loading in position #6 on short ramps or trailers having limited overhead clearances. Maintain a minimum of 4 in. (10.16 cm) separation between upper and lower vehicles.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAIL LOADING

- Standard tri-level railcars:** *Not an approved conveyance.*
- Bi-level railcars:** Approved for all loading positions. Loaders utilize the highest chock setting that will maintain a minimum 2 in. (5.08 cm) of clearance between the chock and any vehicle component.

GENERAL



- The KIA Sportage has approximately 6.4 in. (16.26 cm) of ground clearance.
- Sportage must be shipped with front tires in the straight forward position, the transmission in "Park" position and parking brake fully engaged.
- Seat belts must be worn when operating vehicle.
- Key placement: Smart and flip keys, close key into fob, place in cup holder. Exposed mechanical keys, place in glove box.



Specifications
 KIA Sportage
 LX, S, EX and SX Turbo
 2.4 GDI 181 hp., 2.0 Turbo 240 hp
 Curb weight from 3,305 - 3,997 (1,499 kg - 1,813.01 kg)
 Wheelbase: 105.1 in. (266.95 cm)
 Length: 176.4 in. (448.06 cm)
 Width: 73.0 in. (185.42 cm)
 Min. ground clearance: 6.4 in. (16.26 cm)
 Height w/rails: 65.2 in. (165.61 cm)
 Wheels: 17, 18, 19 in. (43.18 - 48.26 cm)
 Transmission: AT

*All weights and dimensions are subject to change without notice.

Technical Bulletin

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|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KON1811R2 | TEST DATE: 11/26/2018 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: ON |
| SUBJECT: MY2021 KIA Telluride | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper Deck:** Approved for all upper deck positions.
- Lower deck:** Approved for all lower trailer positions with exception of position #6 behind the cab on short ramps seen on many 65' trailers, or trailers with limited overhead clearances. Always check load heights for State 13'.6" and 14' Federal height limitations.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement are strictly prohibited. Wheel straps may contact tire tread surfaces only. Side pulls and strap contact with undercarriage components are strictly prohibited.

RAIL LOADING

- Tri-level railcars: Not Approved.**
- Bi-level railcars:** Approved for bi-level railcar shipments only. Utilize the highest chock setting that will maintain a minimum of 2" clearance between the chock and any vehicle body panel or its components.

GENERAL

- The KIA Telluride has approximately **8.0 in. (201 mm) of ground clearance.**
- Rear seat alarm. If a rear door (s) is opened for inspection, deactivate sensor or alarm will sound. Deactivation button is found on right side of steering column next to cruise control switch.**
- Seat belt(s) must be worn at all times.**
- Vehicle must be shipped with its front tires in the straight forward position, the transmission in "Park" position and its parking brake fully engaged.



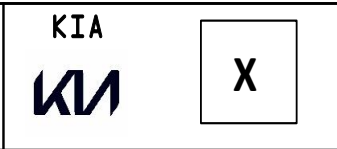
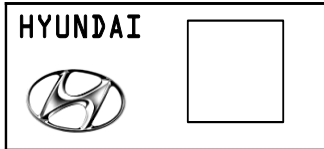
Specifications Models: S / SX / LX / EX

3.8L V6 GDI
Curb weight: 4,112 - 4,482 lbs. (1,865 - 2,033 kg.)
Wheelbase: 114.2 in. (290.07 cm)
Length: 196.9 in. (500.13 cm)
Width: 78.3 in. (198.88 cm)
Height w/rails: 69.3 in. (176.02 cm)
Wheels: 18 or 20 in. Alloy (45.72 - 50.8 cm)
Transmission: Automatic

**All weights and dimensions are subject to change without notice*

Technical Bulletin

| | |
|-----------------------|------------------------|
| NUMBER: KEV62108R1 | TEST DATE: 07/23/21 |
| MODEL YEAR: 2022 | MODEL CODE: CV |



SUBJECT:
MY2022 KIA EV6

COMMENTS: TRUCK HAUL-AWAY

- Upper Deck:** The CV is approved for all upper deck positions. *Important note: Upper trailer #1 headrack and #2 vehicle positions on some trailers can exceed the 13'6" State vehicle height restrictions.* Carriers will need to use caution when loading the KIA EV6 into the headrack or #2 positions, especially if utilizing closed wheel pockets or loading the vehicle facing the forward direction.
- Lower deck:** Approved for all lower trailer positions. Use caution when transitioning over tandem wheel area. Always allow 4" spacing between upper and lower trailer level vehicles.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of securement except straps are prohibited. Wheel straps may contact center tire tread surfaces only. Strap side pulls or any strap contact with undercarriage components is strictly prohibited. When installing tire straps, provide a minimum of a 1" clearance between wheelhouse and inner fenders, rocker and Qtr. panels.

RAIL LOADING

- Bi-level rail cars:** Bi-levels are the only approved conveyance for shipping the KIA EV6. Utilize all deck levels and loading positions. Grate lock, Stay-Puts and Grip Lock chocks may be utilized provided that the chocks are set at the highest setting that will maintain a minimum of 2" (5.08 cm) clearance between chock and any vehicle body panels or components. Chock sets noted above will need to be set to either *medium or low height setting on the front wheels* to meet the 2" AAR standard.
- Standard tri-level rail cars** *are not an approved conveyance* for the KIA EV6.
- AutoMax rail cars** *are not an approved conveyance* as many utilize SCT Copolymer chocks *which are prohibited for use on all KIA EV6 models.*
- Autoflex and Multi-Max rail cars:** may be utilized *provided they are set to bi-level configuration only.*

GENERAL

- The KIA EV6 (CV) has approximately **5.25 inches (13.34 cm)** of ground clearance.
- EV recharging is restricted to trained personnel only.** High voltage cables and connectors are orange in color. Do not touch high voltage components, cables or connections without proper protective gear. Failure to observe this warning could result in electrical shock, injury or even death.
- Always wear a seatbelt when operating vehicle.
- EV charging kit responsibility follows the carrier chain of custody rules.
- The KIA EV6 must be shipped with its front tires in the straightforward position, the transmission in "Park" position and its parking brake fully engaged.

EV6 load factor: Bi-level 10, Trucks: 6-7 based on load make-up & tractor/trailer weight.



Kia EV6 Specifications

58.0 kWh battery 160kW rear motor 167 hp.
77.4 kWh battery 160kW rear motor 225 hp.
AWD: 77.4 kWh battery 70kW front motor & 160kW rear motor 320 hp.
AWD: 77.4 kWh battery 160kW front motor & 270kW rear motor 576 hp.- GT version.
Curb Weight: Est. 4,795 lbs. (2,175kg) - Height: 61.03 in. (155.02 cm) - Wheelbase: 114.34 in. (290.42 cm)
Min. Ground Clearance 5.25 in. - Wheels: 19 in. or 20 in. (48.26 cm or 50.80 cm)
Specifications can change without notice.

Technical Bulletin

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|----------------------|-------------------|
| NUMBER: KMV2306R1 | DATE: 9JUN23 |
| MODEL YEAR: 2024 | MODEL CODE: MV |



SUBJECT:
MY2024 KIA EV9 (MV)

COMMENTS:

TRUCK HAUL-AWAY

- a. **Upper Deck:** Approved conveyance for the KIA EV9 (MV) with restrictions: upper trailer headrack **not approved on vehicle positions #1 and #2** on some sleeper cab trucks **can exceed 13'.6" state vehicle height restrictions. Recommended not to use wheel pockets. Do not stack Kia EV9s on position #2 and #6.**
- b. **Lower trailer deck:** Approved conveyance for the KIA EV9 (MV) with **restrictions on vehicle position #6** on some trailers does not meet undercarriage clearance (**2" minimum**) and insufficient overhead clearance (**4" minimum**). **Driver side door has potential for damage when opening while in position #6. Do not stack Kia EV9s on position #2 and #6.**
- c. Soft-tie wheel straps are required on all four (**4**) tires with **1"** minimum clearance between wheelhouse, inner fenders, rocker and/or quarter panels and is the only authorized method of securement.

RAIL LOADING

Bi-level rail cars: **Bi-level is the only approved conveyance** for shipping the KIA EV9 (MV) Utilize all deck levels and loading positions. Holden Grate lock chocks, Zef-tek Sta-Put chocks and Holden Grip Lock chocks on **HIGH** setting is recommended to maintain a minimum of **2"** (5.08 cm) clearance between chock and any vehicle body panels.

- a. Standard **tri-level rail cars are NOT an approved conveyance** for KIA EV9 (MV) due to height limitations.
- b. **AutoMax rail cars are NOT an approved conveyance** for KIA EV9 (MV) as many utilize lo-pro SCT Copolymer chocks which are prohibited for use on KIA EV9 (MV) models as well as height clearance limitations.
- c. **Autoflex and Multi-Max rail cars: may be used provided they're set to bi-level** configuration with proper chocks and settings.

GENERAL



LOAD FACTOR: Bi-level - 10, Haulaway - 6

- a. The KIA EV9 (MV) has approximately 7 in (17.78 cm) of ground clearance.
- b. EV recharging is restricted to trained personnel only. High voltage cables and connectors are orange in color. Do not touch high voltage components, cables, or connections without proper protective gear. Failure to observe this warning could result in electrical shock, injury or even death.
- c. 'No start' hybrid or electric vehicles: please contact the GLOVIS Claims Department for directions at 1-866-445-6847. Always wear a seatbelt when operating vehicle and obey GLOVIS property speed limits.
- d. EV charging kit responsibility follows the carrier chain of custody rules. The KIA EV9 (MV) must be shipped with its front tires in the straightforward position, the transmission must be in Parking and under 5 MPH on loading/unloading.

Curb Weights: Estimated: 5,737 lbs. (2602.25 kg),
Wheelbase: 122.047 in. (3100 mm), **Length:** 197.244 in. (5010 mm), **Width:** 77.953 in. (1980 mm), **Height:** 68.898 in. (1750 mm), **Min. ground clearance:** 7 in. (17.78 cm), **Wheels:** 255/60/R19 (482.6 mm), 275/50/R20 (508 mm), 285/45/R21 (533.4 mm)



Technical Bulletin

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|---------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: KCK1709R2 | TEST DATE: 09/05/2017 |
| HYUNDAI  | <input type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: 2021 | MODEL CODE: CK |
| SUBJECT: MY2021 KIA Stinger & Stinger GT | | | |

COMMENTS:

TRUCK HAUL-AWAY

- Upper deck:** Approved for all upper deck positions. Avoid using wheel pocket extensions in the head rack position due to insufficient undercarriage clearance.
- Lower deck:** Approved for all lower trailer positions. Use extreme caution over the trailer's tandem wheel area and ramp break-over points due to reduced undercarriage clearance.
- Soft-tie wheel straps are required on all four (4) tires.** Chains or any other method of vehicle securement is prohibited. Wheel straps may contact tire tread surfaces only. Soft-tie side pulls and strap contact with undercarriage components are strictly prohibited.
- Use caution:** Reduce vehicle loading speeds when approaching or exiting skids, trailer tandems and ramp break-over points.

RAIL LOADING

- Tri-level railcars*:** Approved for all loading positions. *Low-pro chocking systems are the preferred vehicle restraint system. SCT Copolymer or similar off-brand chock sets are prohibited from use, should the Stinger have installed mudguards.* Tightly fit chocks against tires.
- Bi-level railcars:** May be utilized in the event of a tri-level railcar shortage. Kia Stinger is approved for all loading positions. Place chock settings in the highest setting that will maintain a minimum of 2 in. (5.08 cm) clearance between the chock and any vehicle component.

GENERAL

- Kia Stinger and Stinger GT have a minimum ground clearance of approx. 5.1 inches (12.95 cm).
- The KIA Stinger must be shipped with its front tires in the straightforward position, automatic transmission placed in "Park" and its parking brake fully engaged.
- Always wear a seatbelt when operating vehicle.
- Key placement: Smart and flip keys, close key into fob, place in cup holder. Exposed mechanical keys, place in glove box.





| Kia Stinger | | Kia Stinger | |
|-----------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|-----------------------------------|
| GT - Line | | GT1, GT2 & GT3 | |
| 2.0 L Twin Scroll Turbo 4- cylinder GDI, 255 hp | | 3.3 L Twin Turbo V6, 365 hp | |
| DOCH D-CVVT 16V - 8 Speed Auto transmission | | DOCH D-CVVT 24V - 8 Speed Auto transmission | |
| Wheelbase: | 114.4 in. (290.58 cm) | Wheelbase: | 114.4 in. (290.58 cm) |
| Length: | 190.2 in. (483.11 cm) | Length: | 190.2 in. (483.11 cm) |
| Width: | 73.6 in. (186.94 cm) | Width: | 73.6 in. (186.94 cm) |
| Height: | 55.1 in. (139.95 cm) | Height: | 55.1 in. (139.95 cm) |
| Ground clearance: | 5.1 in. (12.95 cm) | Ground clearance: | 5.1 in. (12.95 cm) |
| Wheels: | 18 in. & 19 in. (45.72, 48.26 cm) | Wheels: | 18 in. & 19 in. (45.72, 48.26 cm) |
| Est. curb weight: 3,611 to 3,950 lbs. (1,637.92 - 1,791.69 kg) | | Est. curb weight: 3,830 to 4,170 lbs. (1,737.26 - 1,891.48 kg) | |

*Includes all standard, AutoMax, Auto-Flex and Multi-Max railcars.

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| 17305 Von Karman, Suite 200 Irvine, CA 92614 | QUALITY 714-435-2960 | Page 1 of 1 Revision 2 |
|-------------------------------------------------|--------------------------------|---------------------------|

Technical Bulletin

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| | | NUMBER: GHK1902R1 | Date: 02/25/2019 |
| HYUNDAI  | <input checked="" type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: ALL | MODEL CODE: ALL |
| SUBJECT: SEAT BELTS MUST BE WORN AT ALL TIMES | | | |

COMMENTS:

IMPORTANT NOTICE

TO ALL: RAIL, HAULWAY, VPC AND SHUTTLE DRIVERS

Many newer Hyundai, Genesis and KIA models are now being delivered with state-of-the-art electronics and safety systems. These new safety systems are designed to ensure that a vehicle's transmission is placed into 'Park' position if a vehicle door is opened while the driver's seatbelt is not latched.



The following policy is established for all Hyundai, Genesis and KIA model lines going forward:

*** SEAT BELT(S) MUST BE WORN BY DRIVERS AT ALL TIMES. THIS INCLUDES ANY PASSENGERS THEREOF.**

Failure to follow this policy while loading, unloading, storing or driving any vehicle traveling at a speed greater than 2 mph and opening a vehicle door can cause serious physical Injury.

Technical Bulletin

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| NUMBER: GHK2008R0 | Date: 08/25/2025 |
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|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| HYUNDAI  <input checked="" type="checkbox"/> | KIA  <input checked="" type="checkbox"/> | MODEL YEAR: ALL | MODEL CODE: ALL |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|

SUBJECT:
All Hybrid Vehicles Must Be Fully Turned OFF After Driving

COMMENTS:

IMPORTANT NOTICE

TO: RAIL, HAULWAY, VPC AND SHUTTLE DRIVERS



The following policy is established for all Hyundai, Genesis and KIA model lines going forward:

Electronic FSE reports have shown there have been a number of hybrid vehicles started, driven onto or off the railcars at rail destinations and their ignition systems were never fully turned off. Improper vehicle handling causes battery deterioration or failure.

As designed, when started, a hybrids may turn-off its internal combustion engine, giving the false impression to the operator that engine had have been turned off, when vehicle is still in READY mode drawing electrical current from its main battery.

When turning hybrid engines off, **please ensure that instrument panel is off** and **READY mode is no longer displayed**. If units are turned off properly, the dash instrument cluster will be off and vehicle READY mode is no longer displayed.

Technical Bulletin

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|--------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| | | NUMBER: GHK2007R0 | Date: 07/15/2020 |
| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: ALL | MODEL CODE: ALL |
| SUBJECT: Vehicle 'No Start' Conditions | | | |

COMMENTS:

IMPORTANT NOTICE

RAL, HAULAWAY, VPC AND SHUTTLE DRIVERS

This bulletin is to help clarify, and not intended to replace any procedure published in the Appendix 'D' of the GLOVIS In-Transit Repair Procedures.

Vehicle No Start Conditions:

If vehicle's starter turns but does not start: Check vehicle's fuel gage. Add 87 octane fuel if required.

If vehicle's starter does not engage but the horn sounds: Place your foot on brake pedal, and *gently cycle the transmission shifter from 'Park' (P) into the 'Drive' (D) position - 2 times.* This will help the range switch recognize the transmission control module "Park" signal helping to place the vehicle into the proper start mode. *Never use force to move the gear shifter out of 'Park' (P) position, or the vehicle's shifter interlock system can be damaged.* Ensure that the shifter is returned to the 'Park' (P) position and restart vehicle using normal start procedures.

If the shifter cannot be easily moved out of 'Park' position, utilize the 'Shift Lock Release' button to move the shift lever from Park (P) into the Neutral (N) position. Press and hold the vehicle's brake pedal. Using a wooden release tool, carefully remove the 'Shift Lock Release' cover/tab found near the shifter on the console panel. Insert a wooden release tool into the 'Shift Lock Release' hole and press down on the release button. Orange wood sticks (3.5 mm dia. x 110 mm lg); or similar product can be utilized to unlock the shift released button and can be purchased on Amazon.com. While pressing the Shift Lock Release button with the orange wood tool, press and hold in the shift knob button on the shifter handle, and gently move lever into the neutral (N) position. Use the car's key to start the vehicle. See Appendix 'D' or the 'KIA Shift Interlock' video on GLOVIS website:

<http://america.glovis.net/English/Magazine/List.aspx?m=29>.

Vehicles with "Smart Keys." If stop lamp fuse is blown, the vehicle will not start as normal. Start the engine by pressing the Engine Start/Stop button for 10 seconds while it is in the ACC position. For your safety, always depress the brake pedal before starting any engine.

EV, Hybrid and Fuel Cell vehicles. Ensure the smart key is inside the vehicle. Fully engage the parking brake. Ensure the automatic transmission shift lever is in (Park) 'P' position. Depress the brake pedal fully. *Do not depress the accelerator.* Press the ENGINE START/STOP button for 1 second or until the READY lamp in the gauge cluster illuminates. EV recharging is restricted to trained personnel only. High voltage cables and connectors are orange in color. Do not touch high voltage components, cables or connections without proper protective gear. Failure to observe this warning could result in electrical shock, injury or even death.

No-start condition due to a dead battery. It is recommended to either jump-start, or charge the battery in order to move the vehicle. Jump-starting can be accomplished by using a portable booster battery (jump box), or standard jumper cables with fully insulated clamp handles. If not utilizing a portable battery jump box, jump-start using a utility truck, etc. never utilize another new car out of yard inventory. Use only 12-volt jumper systems. You can damage a 12-volt starter, ignition system, and other electrical parts beyond repair by using any system other than a 12-volt system. See Appendix 'D' or the 'How to Jump Start' video on GLOVIS website:

<http://america.glovis.net/English/Magazine/List.aspx?m=29>. Should you require further assistance on a 'No Start' vehicle, please contact the GLOVIS In-transit Repair Administrator (866-4GLOVIS).

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| 17305 Von Karman, Suite 200 Irvine, CA 92614 | QUALITY 714-435-2960 | Page 1 of 1 Revision R0 |
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Technical Bulletin

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| | | NUMBER: GHK20716R1 | Date: 07/16/2020 |
| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: ALL | MODEL CODE: ALL |
| SUBJECT: GLOVIS COVID-19 PROTOCOL UPDATE | | | |

Unfortunately, due to reported increase in the COVID-19 (Corona virus) infection rates in California and other States; we are asking our carriers to continue to be diligent and ensure that your employees, owner operators and trip-leased carriers comply with the health protocols in place at all GLOVIS ports, rail and dealership facilities where applicable.



Any driver or employee complaining or exhibiting common symptoms of the COVID-19 like a fever, cough, etc. should be screened by their healthcare professional. Only when the driver or employee is released by their doctor as being negative for COVID-19 or standard flu symptoms, should they be returning to work.

Please continue to emphasizing PPE mask wearing and social distancing in States where required, and continuous hand washing / sanitizing as recommended by CDC.

We appreciate your continued efforts and hope that this up-tick in infection rates is short lived, so our lives and businesses can quickly get back to normal.

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Technical Bulletin

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| | | NUMBER: GHK2023R1 | Date: 8/16/2023 |
| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> |
| | | MODEL YEAR: ALL | MODEL CODE: ALL |

SUBJECT: Reporting Undelivered Vehicles Left in Bays

COMMENTS:

IMPORTANT POLICY NOTICE

GLOVIS VPC's, Ports and rail heads have been inundated with a number of unreported vehicles being removed from driver load sheets, leaving both damaged and undamaged vehicles sitting in bays or load lines for days or weeks without being reported to a GLOVIS Vehicle Logistics representative.

Effective immediately, all GLOVIS contract carriers are required to report any vehicle removed from a driver's initial load sheet and left behind at a VPC, Port or rail location. Undelivered vehicle VIN information and location information must be emailed or FAX their GLOVIS VPC, Port or GLOVIS VL representative within 4 hours of removal from a drivers load sheet on a daily basis. This requirement extends to contract carriers utilizing sub contactors where any vehicle was placed on a load sheet, but subsequently removed from the carrier's load sheet a for any reason.

Please use the attached form on page 3 or use similar electronic version of the same and forward the information to the vehicles originating GLOVIS VPC, Port or Rail ramp's GLOVIS vehicle logistics representative.

➤ **Plant VPC's:** **Montgomery** - Lodge, Christian [GlovisUSA] ChristianLodge@glovisusa.com Vehicle Logistics

Supervisor

West Point - Moseley, Jennifer [GlovisUSA] JMoseley@glovisusa.com Vehicle Logistics Supervisor

Bradford, Sequoya [GlovisUSA] SBradford@glovisusa.com Vehicle Logistics Analyst

➤ **Ports:** **Brunswick** - David Mason [GlovisUSA] David.Mason@glovisusa.com Port Manager

Miller, Stephen [GlovisUSA] SMiller@glovisusa.com Port Supervisor

Hueneme - Victor Dunton [GlovisUSA] VDunton@glovisusa.com Vehicle Logistics Supervisor

Garcia, Jazmine [GlovisUSA] Jazmine.Garcia@glovisusa.com Assistant Manager

Portland - Bob Mazer [GlovisUSA] BMazer@glovisusa.com Roxann.Hockaday@autowc.com

Philadelphia - Nolan Clay [GlovisUSA] NClay@glovisusa.com Vehicle Logistics Administrator

Thomas, Ernest [GlovisUSA] Ernest.Thomas@glovisusa.com Manager Customer Service

National City - Peterson, Alfonso [GlovisUSA] APeterson@glovisusa.com Port Manager

Shreveport - Jeffery Oge [GlovisUSA] JOge@glovisusa.com Vehicle Logistics Administrator



Tacoma - Jeff Risteen [GlovisUSA] JRisteen@glovisusa.com Port Manager

Greg Stubberfield [GlovisUSA] GStubberfield@glovisusa.com Port Manager

Amber Hyde (WWS) amber.hyde@walwil.com

Technical Bulletin

NUMBER: GHK2023R1 Date: 8/16/2023

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| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> | KIA  | <input checked="" type="checkbox"/> | MODEL YEAR: ALL | MODEL CODE: ALL |
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SUBJECT: **Reporting Undelivered Vehicles Left in Bays**

COMMENTS: **IMPORTANT POLICY NOTICE**
Rail ramp GLOVIS Representative:

| Ramp | Facility Name | Carrier | POC | Email | Ramp | Facility Name | Carrier | POC | Email |
|-------|-----------------------------|---------|--------|------------------------------------------------------------------------|-------|-----------------------------|---------|--------|------------------------------------------------------------------------|
| ALBNM | Albuquerque | BNSF | Jose | AOrtega@glovisusa.com | PEATX | Pearland | BNSF | Jose | CVizcarra@glovisusa.com |
| ALLTX | Alliance | BNSF | Carlo | CVizcarra@glovisusa.com | PHOAZ | Phoenix | UP | Jose | AOrtega@glovisusa.com |
| ANNMD | Annapolis | CSX | Carlo | CHernandez@glovisusa.com | POROR | Portland | BNSF | Austin | KIkeda@glovisusa.com |
| POLOR | Barnes Yard | UP | Austin | KIkeda@glovisusa.com | RICCA | Richmond | BNSF | Austin | KIkeda@glovisusa.com |
| BIGCO | Big Lift | BNSF | Jose | AOrtega@glovisusa.com | ROLCO | Rolla | UP | Jose | AOrtega@glovisusa.com |
| CHHIL | Chicago Heights | UP | Carlo | DGutierrez@glovisusa.com | ROPUT | Roper | UP | Austin | KIkeda@glovisusa.com |
| EBRMA | East Brookfield | CSX | Carlo | CHernandez@glovisusa.com | SAIMN | Saint Paul (Dayton's Bluff) | BNSF | Jose | AOrtega@glovisusa.com |
| ELMAZ | El Mirage | BNSF | Jose | AOrtega@glovisusa.com | SABCA | San Bernardino | BNSF | Austin | KIkeda@glovisusa.com |
| ELWIL | Elwood (Logistics Park) | BNSF | Carlo | DGutierrez@glovisusa.com | SANNM | Santa Rosa | UP | Jose | AOrtega@glovisusa.com |
| KENTX | Houston Intermodal Termin | KCS | Carlo | CVizcarra@glovisusa.com | SELNY | Selkirk | CSX | Carlos | CHernandez@glovisusa.com |
| KANMO | International Freight Gatew | KCS | Carlo | DGutierrez@glovisusa.com | TWIPA | Twin Oaks | CSX | Carlos | CHernandez@glovisusa.com |
| KANKS | Kansas City | BNSF | Jose | DGutierrez@glovisusa.com | WME | Wilmington | NS | Carlos | CHernandez@glovisusa.com |
| LAUMT | Laurel | BNSF | Austin | KIkeda@glovisusa.com | PHIPA | Philadelphia | CSX | Carlos | CHernandez@glovisusa.com |
| LOROH | Lordstown | CSX | Carlo | CHernandez@glovisusa.com | | | | | |
| MESTX | Mesquite | UP | Carlo | CVizcarra@glovisusa.com | | | | | |
| MILCA | Milpitas | UP | Austin | KIkeda@glovisusa.com | | | | | |
| MIRCA | Mira Loma | UP | Austin | KIkeda@glovisusa.com | | | | | |
| NAVPA | Navy Yard | NS | Carlo | CHernandez@glovisusa.com | | | | | |

Technical Bulletin

NUMBER: GHK2010R0 Date: 10/20/2020

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| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> X | KIA  | <input checked="" type="checkbox"/> X | MODEL YEAR: ALL | MODEL CODE: ALL |
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SUBJECT: Reporting Undelivered Vehicles Left in Bays

Vehicle Removed from Driver Load Sheet

Carrier:

VPC, Port or Ramp Location:

Date:

Time:

Carrier Rep reporting:

Phone:

17 digit VIN:

Vehicle Model:

Color:

Bay number or vehicle's location:

Sub-contractor involvement: Yes / No Name:

Reason vehicle removed from load:

AIAG damage codes:

Pre-existing damage requires sign-off: Yes / No

GLOVIS damage vehicle involvement required: Yes / No


Was vehicle re-assigned to a new driver or load: Yes / No / Pending

If re-assigned, estimated shipment date:

Other Info:

Technical Bulletin

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| NUMBER: GHK2009R0 | Date: 09/25/2020 |
| MODEL YEAR: ALL | MODEL CODE: ALL |

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| HYUNDAI GENESIS  | <input checked="" type="checkbox"/> |
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| KIA  | <input checked="" type="checkbox"/> |
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SUBJECT: **Standard STI / Key Control Process**

COMMENTS: **IMPORTANT NOTICE**
STANDARD STI/ KEY CONTROL PROCESS

NOTE: This process is only applicable to those dealers actively participating in STI deliveries.

- 1) The contract carrier or its trip leased or owner operator, within 8 hours prior to delivery, is to notify the receiving dealership Point of Contact (POC) and advise them that an STI delivery will be made.
- 2) Vehicles must be delivered to the dealership's designated after-hours parking area (or otherwise area as directed by POC).
- 3) All vehicle keys must be placed in an envelope and driver is to write the delivery date, time, and his name on the outside of the envelope and "STI". If shipment was a trip lease, driver is to include contract carrier's name, if applicable. Lastly, driver is to legibly write or print his POC's name or his dispatcher's name and their phone number on the envelope. All delivered vehicles windows must be fully closed and vehicle doors locked.
- 4) Key envelope and *manual delivery receipt (if not EPOD)* are to be placed in the dealers' service department's key drop box.
- 5) Upon completion of delivery, the carrier is to notify the dealer's POC to confirm vehicles delivery, drop location and key envelope placement. Carrier is also to remind dealer he has 2 business days to inspect vehicles and confirm delivery on the carriers' EPOD web confirmation page, or return the manual delivery receipt by any traceable means email, fax or USPS.

Following this standard process will help ensure safe and secure STI vehicle deliveries.