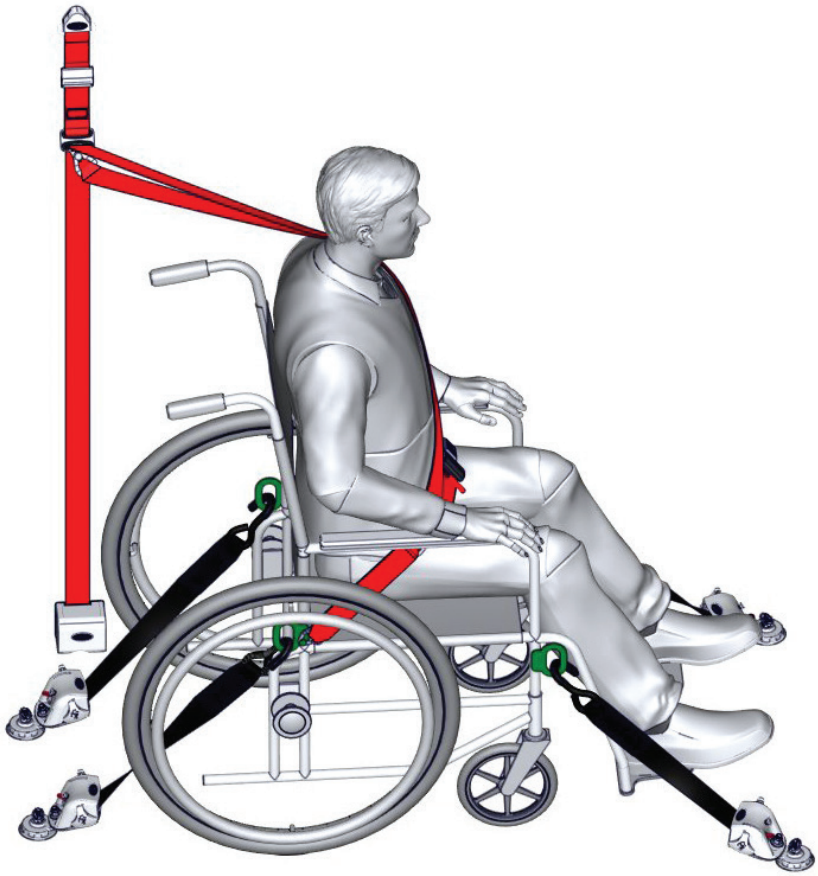
Q'STRAINT®

Installation Manual

VEHICLE ANCHORAGES & ACCESSORIES FOR

QRT-360®

4-POINT WHEELCHAIR SECUREMENT SYSTEM



THE QRT-360 4-POINT WHEELCHAIR SECUREMENT SYSTEM AND COMPONENTS COMPLIES WITH ALL APPLICABLE REQUIREMENTS OF SAFETY REGULATIONS AND STANDARDS INCLUDING: ADA, FMVSS & CMVSS 209/210/222/302, CSA Z605 & D409, AS-2942-1994, SAE J2249 and ANSI/RESNA WC-4 SECTION 18.

© 2014 Q'Straint®. All Rights Reserved.
QRT™ is a registered trademark of Q'Straint®, Inc.

Q'STRAINT®

QRT-360®

4-POINT WHEELCHAIR SECUREMENT SYSTEM

TABLE OF CONTENTS

READ ALL INSTRUCTIONS PRIOR TO INSTALLATION **3**

IMPORTANT SAFEGUARDS AND WARNINGS **4**

INTRODUCTION **5**

COMPLIANCE **5**

SYSTEM CHECKLIST **5**

EQUIPMENT AND PART NUMBERS **6**

DIMENSIONS **7**

LAYOUT RECOMMENDATIONS **8**

SYSTEM DEFINITIONS **9**

INSTALLATION INSTRUCTIONS **10**

SLIDE 'N CLICK ANCHORAGE INSTALLATION **11-13**

L-TRACK ANCHORAGE AND END CAPS INSTALLATION **14-17**

L-TRACK COVER INSTALLATION **18**

SHOULDER AND LAP BELT INSTALLATION **19-27**

WALL POUCH INSTALLATION **28**

TESTING THE QRT-360 SYSTEM **29-30**

TROUBLESHOOTING **31-32**

MAINTENANCE AND CARE **33**

STOP Read All Instructions Prior to Installation

- This manual is a comprehensive step-by-step instruction guide on how to install the floor anchorages, shoulder belt, lap belt and wall pouch—for the QRT-360 4-Point Wheelchair Securement System and components onto vehicles' walls and floors.
- Make sure to read, understand and follow all these instructions.
- To address any questions relating to installation, ordering parts, operating the 4-Point Wheelchair Securement System, troubleshooting, maintenance, service or anything else, contact the nearest Q'Straint® office listed on the back page of this manual.
- All deviations and alterations from these instructions MUST be reported to both your supervisor and Q'Straint®.

IMPORTANT SAFEGUARDS AND WARNINGS

- All equipment and components **MUST** be installed and serviced by an experienced and trained technician.
- Safety eye glasses **MUST** be worn whenever installing or servicing this system.
- Wheelchairs are not intended to be used as seats in motor vehicles unless compliant with ANSI/RESNA WC-4, Section 19.
- This system **MUST** only be used with wheelchairs in forward facing applications and cannot be altered or modified in any way.
- The QRT-360 4-Point Wheelchair Securement System is a complete integrated system. Do not alter or modify it in any way and do not interchange or substitute any components. Any deviation from these recommendations is the responsibility of the installer.
- Before installation, inspect the underside of vehicle floor, note utilities, frames, cross-members, fuel tanks and other possible obstructions—any questions contact the vehicle OEM.
- **Vehicle anchor points may require reinforcement.** The installer or manufacturer is responsible for ensuring anchorages are installed into suitable floor structures. Floor strength **MUST** meet specific regulations, standards and applicable performance requirements from local transportation authorities.
- Please **CONTACT** Q'Straint in the event that the vehicle's dimensions are outside the recommended installation instructions.
- Do **NOT** install anchorages or any system components into faulty materials such as corroded metal, wood, plastic or fiberglass panels.
- Modifications to Backing Plate **MUST** only be made where necessary as a smaller plate size reduces the floor load distribution. Always leave a minimum of .6" (15mm) adjacent the bolt hole in the plate.
- The floor and shoulder belt anchorages **MUST** be installed onto a flat and durable surface.
- **Only use Hardware** with a minimum Grade 8, which meets ASTM F835 ,SAE J429 or ASTM 574 specifications (depending on head style and drive), and coated for adequate protection against corrosion per ISO 7253 or ASTM B117 or per customer requirements.
- **Only use Q'Straint® components** with this system, unless otherwise stated.
- Regulations and standards in some countries require the installation of a shoulder and pelvic belt to be considered a compliant wheelchair securement system. **This 4-Point Wheelchair Securement System plus compliant shoulder and pelvic belt (occupant restraint) make a complete wheelchair securement system.**
- If a head restraint is anchored to the vehicle, a vehicle anchored back restraint **MUST** be provided to minimize rearward deflection of the wheelchair seatback and therefore prevent injury.
- Installer is responsible for making sure the installed 4-Point Wheelchair Securement System meets all applicable regulations and standards—and that the system works according to the instructions in the section of this manual called Testing the QRT-360 System.
- **Tie-Down Hooks** must be attached to the WC-19 compliant chair securement points or a solid wheelchair frame for all other wheelchairs (no spokes, wheels or movable components) at an approximate 45 degree angle with floor.
- **DO NOT allow webbing to get twisted inside the retractors or come in contact with sharp corners and edges.**
- **Compliant Shoulder and Pelvic Belt Restraint** must go across occupant's shoulder and pelvis (lap), and not be worn twisted or held away from the occupant's body by wheelchair components. We recommend using both a pelvic and shoulder belt together and not individually since it will compromise the performance of the system.
- The QRT-360 4-Point Wheelchair Securement System, components and anchorages have been tested in a configuration similar to the recommendations in this manual.
- This 4-Point Wheelchair Securement System and its components **MUST** be regularly inspected, cleaned and maintained—reference the Maintenance and Care section in this manual.
- The QRT-360 4-Point Wheelchair Securement System should not be operated by anyone who does not have full comprehension of how the system works or if the system is not working properly.
- **The 4-Point Wheelchair Securement System and all system components including floor and wall anchorages MUST be replaced after a vehicle collision.**
- Broken and worn components **MUST** be replaced.
- All damages and defects **MUST** be reported to supervisor and Q'Straint®.
- The airbag **MUST** be disconnected if the wheelchair occupant is positioned less than 7" (177.8mm) from the airbag unit, or if an aftermarket device is installed to block the deployment of the airbag.
- **Keep loose articles of clothing away from retractors.**

SAVE THESE INSTRUCTIONS

INTRODUCTION

ENGINEERED TO PERFORM

By thinking beyond current safety standards and meeting tomorrow's industry regulations today, the QRT-360 has become the **1st Wheelchair and Occupant Restraint System** to pass the new WC18 requirements. Stronger than any previous retractors with innovative energy distribution design for maximum load capacity. Coming up with everyday solutions for transportation applications is what we do best.

BUILT TO LAST

The QRT-360 energy-absorbing steel frame retractors automatically self-tension and lock for easy one-handed hook-up of wheelchairs. While the J-Hooks reduce the twisting of belts to ensure proper securement with a quarter turn to accommodate virtually any wheelchair—the webbing strength withstands the test of time. Releasing the retractors has never been easier with the one-touch foot release lever—no more bending down.

SECURED ON THE ROAD

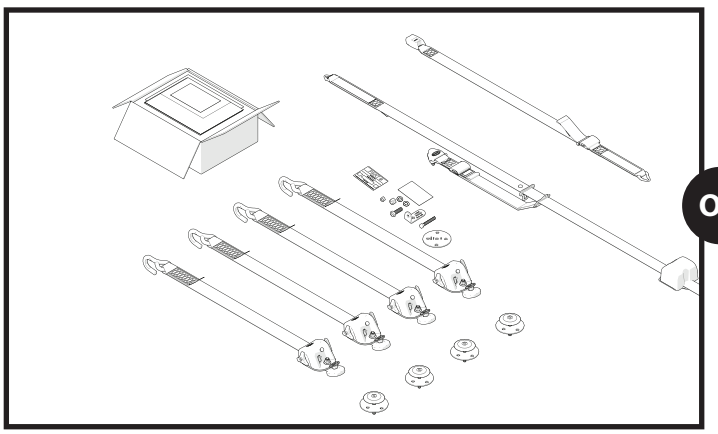
Because safety is our main priority, this 4-point wheelchair securement system has been independently crash tested at a world renowned test facility to meet and exceed all applicable requirements. Developing and improving wheelchair and occupant safety standards keeps us involved in all major international safety committees.

COMPLIANCE

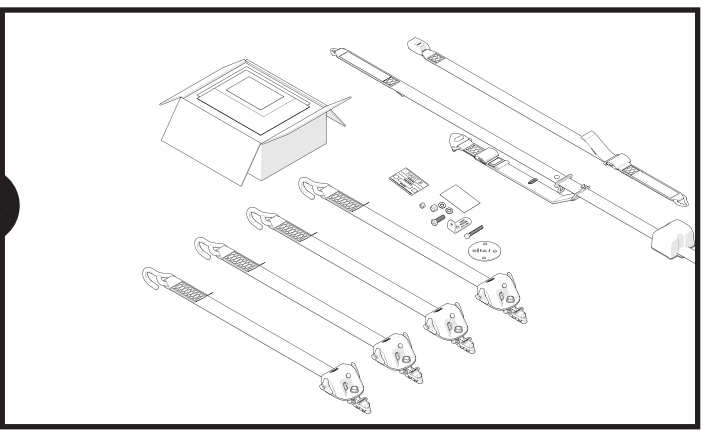
- The QRT-360 4-Point Securement System and components comply with all applicable requirements of safety regulations and standards including ADA, FMVSS & CMVSS 209/210/222/302, CSA Z605 & D409, AS-2942-1994, SAE J2249 and ANSI/RESNA WC-4 SECTION 18.
    - *Systems are dynamically crash tested at 30mph (48kph), 20g, using a 187 lbs. (85kg) forward facing surrogate wheelchair and a 168 lbs. (76kg) Anthropomorphic Test Dummy (ATD). The ATD is restrained by both shoulder and pelvic belt restraints.*

SYSTEM CHECKLIST

The following parts make up a complete QRT-360 4-Point Wheelchair Securement System. If any questions arise, call your nearest Q'Straint ® authorized dealer or office.



OR

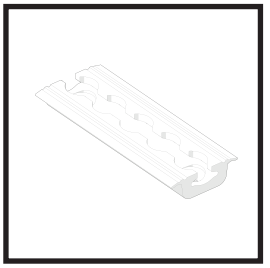


QRT-360 System with Slide 'n Click Anchorage

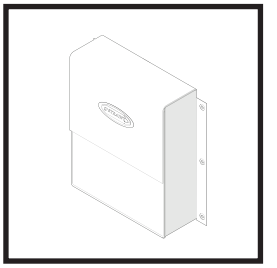
- ❑ 4 QRT-360 Assembled with Slide 'n Click
- ❑ 4 Slide 'n Click Anchorage
- ❑ 1 Occupant Securement (Shoulder and Lap Belt)
- ❑ 1 Occupant Securement Hardware (HDW)
- ❑ 1 QRT-360 Installation Manual
- ❑ 1 QRT-360 Placard
- ❑ 1 QRT-360 Use and Care Manual
- ❑ 1 Warranty Card

QRT-360 System with PLI

- ❑ 4 QRT-360 Assembled with PLI
- ❑ 1 Occupant Securement (Shoulder and Lap Belt)
- ❑ 1 Occupant Securement Hardware (HDW)
- ❑ 1 QRT-360 Installation Manual
- ❑ 1 QRT-360 Placard
- ❑ 1 QRT-360 Use and Care Manual
- ❑ 1 Warranty Card



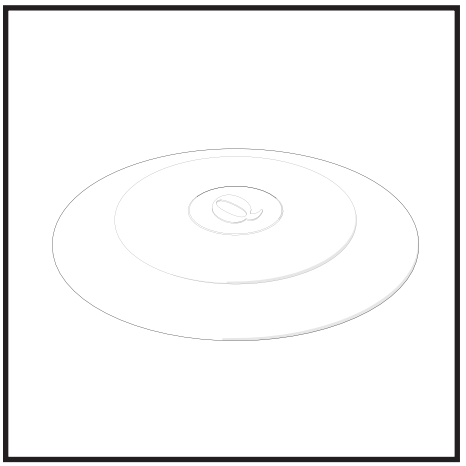
L-Track Anchorage
(part of QRT-360 System with PLI)
- ❑ L-Track (Different ones to choose from)
- ❑ L-Track Anchorage Hardware



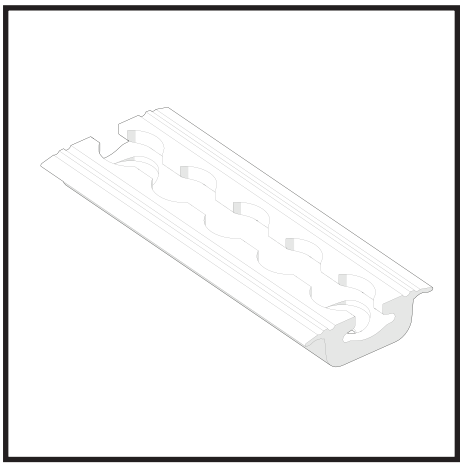
Wall Pouch
(optional)
- ❑ Q'Straint® Wall Pouch
- ❑ Wall Pouch Hardware

EQUIPMENT AND PART NUMBERS

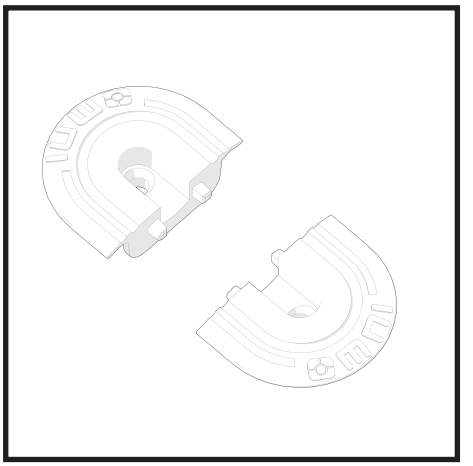
Order Parts by contacting the nearest Q'Straint® authorized dealer or office.



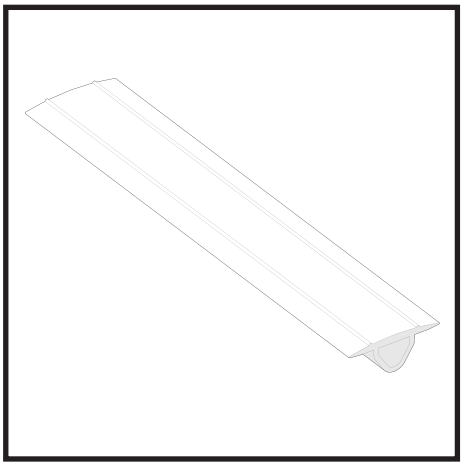
Slide 'n Click Anchorage
(Part # Q8-7580-A)



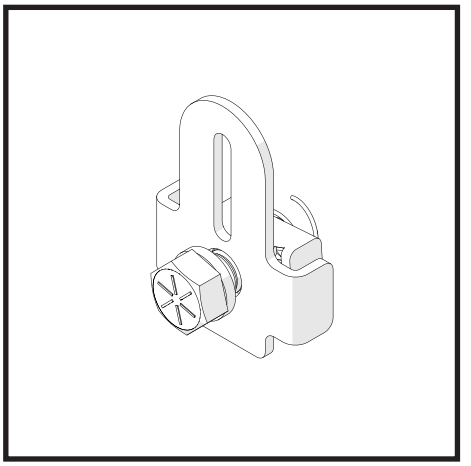
L-Track Anchorage
(Depending on Length)



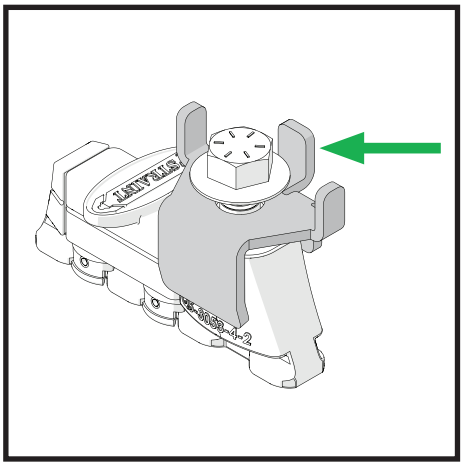
L-Track End Caps
(Part # QC06058)



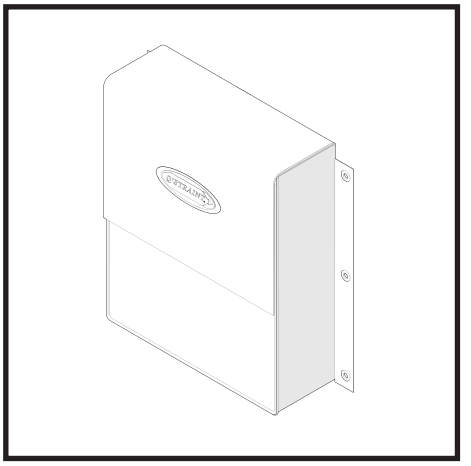
L-Track Cover
(Part # Q5-7550-T60)



Unistrut® Anti-Rotation Wall Bracket
(Part # Q5-3211-3A)

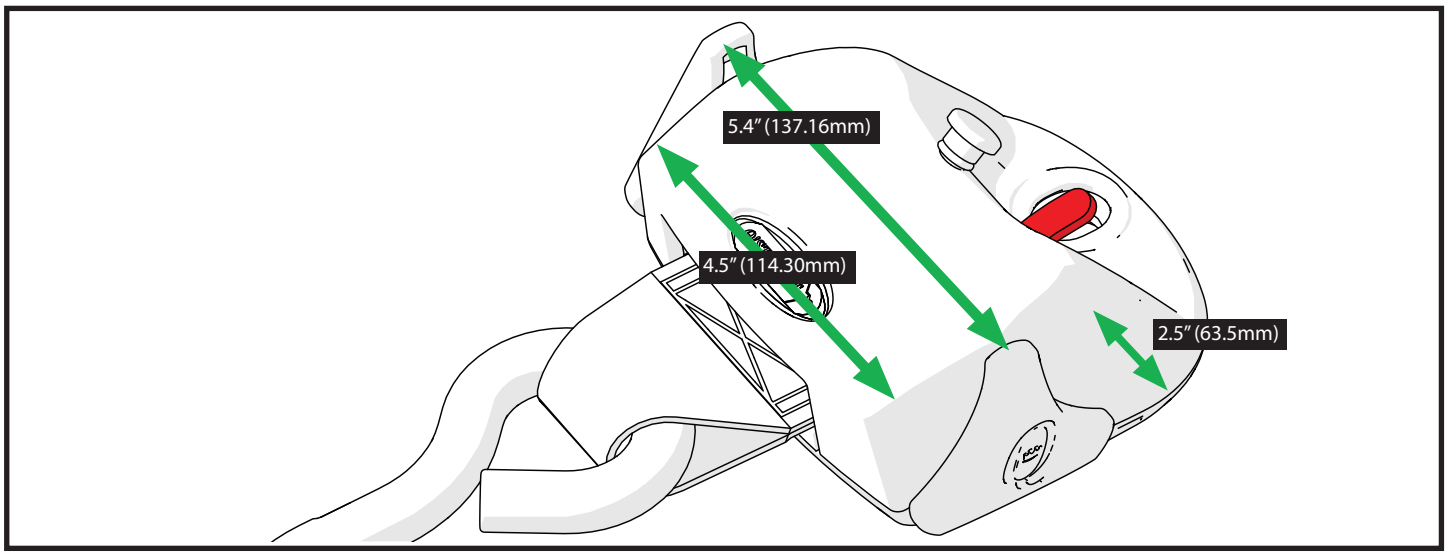


L- Track Anti-Rotation Wall Bracket
(Part # Q5-3211-2A)

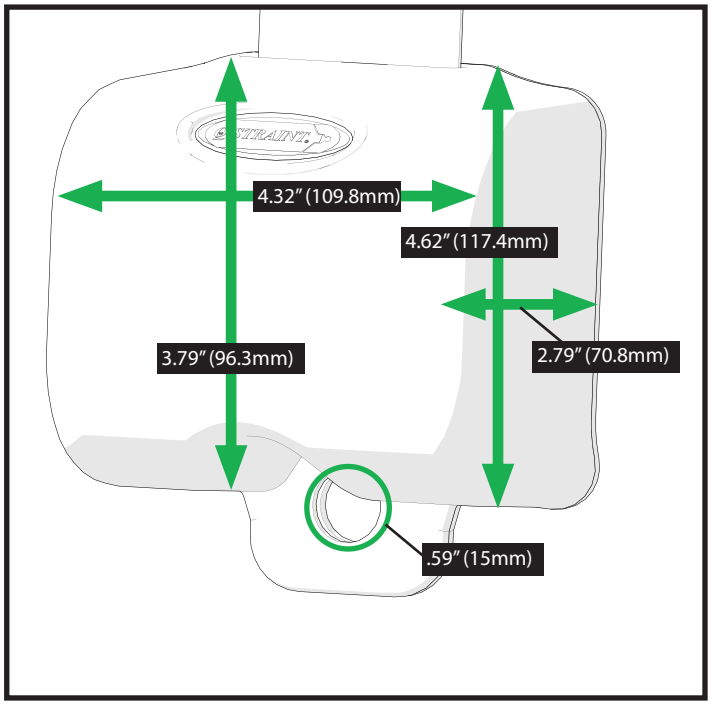


Q'Straint® Wall Pouch
(Part # Q5-8522)

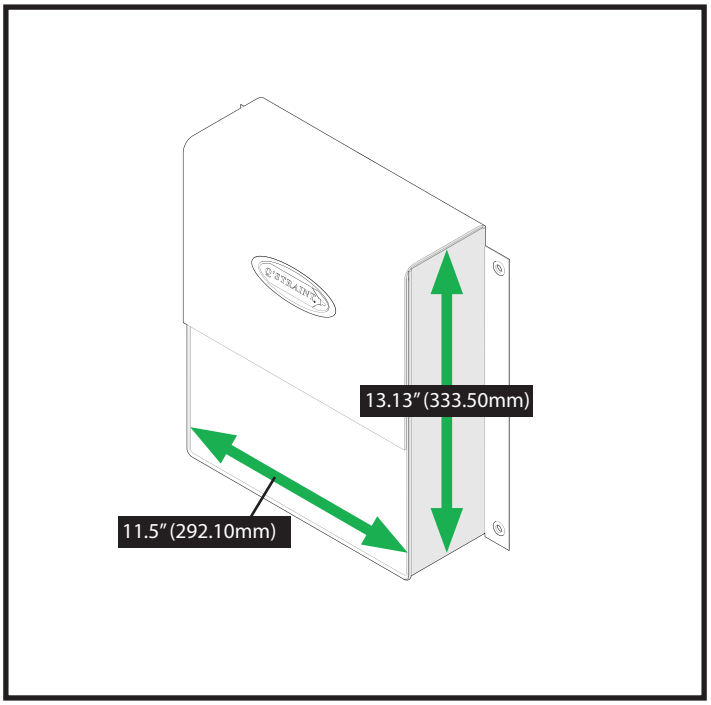
DIMENSIONS



QRT-360 Retractor

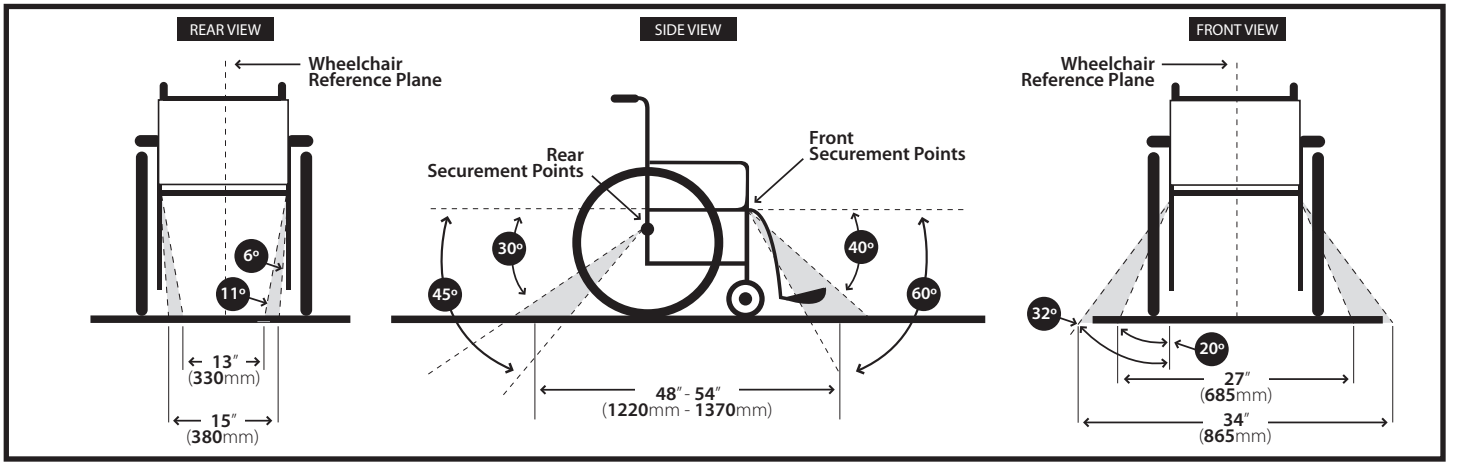


Shoulder Belt Retractor Housing

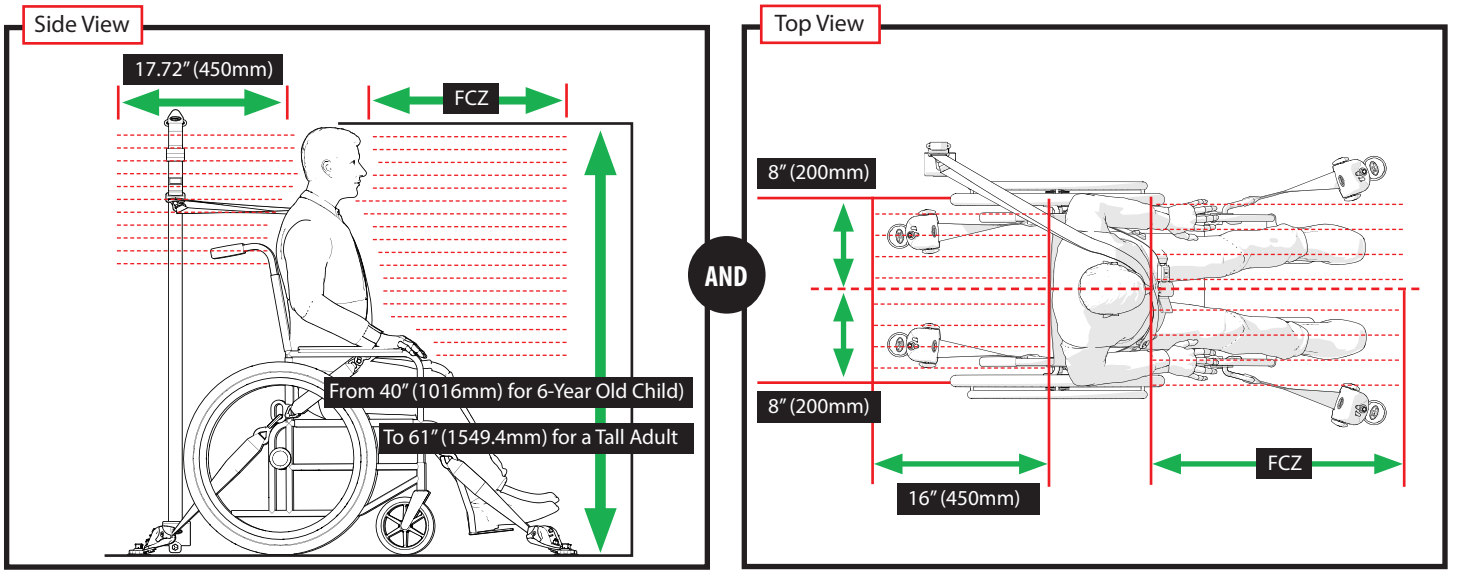


Q'Straint® Wall Pouch

LAYOUT RECOMMENDATIONS

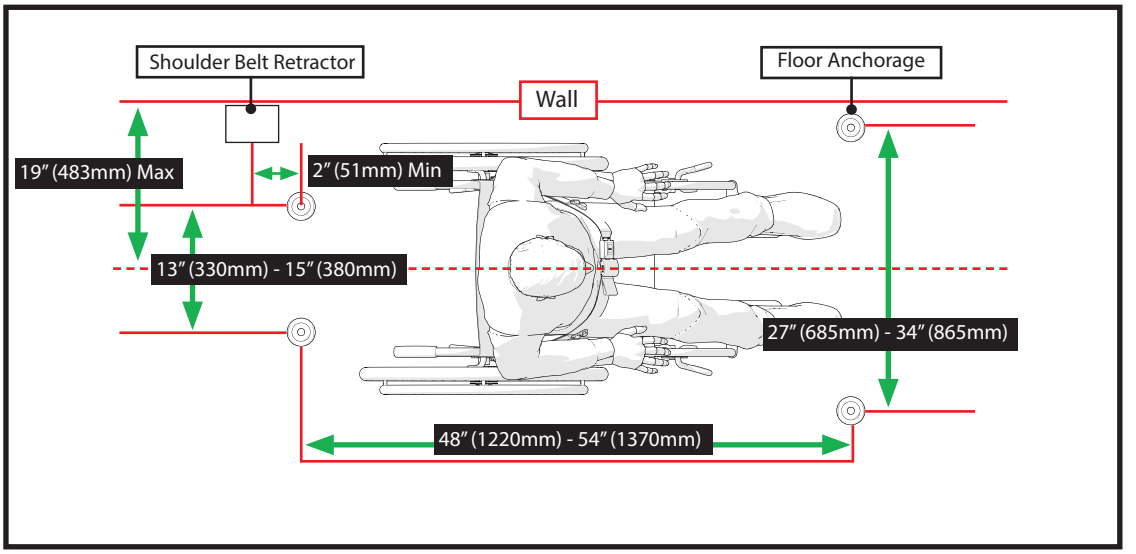


Please **CONTACT** Q'Straint in the event that the vehicle's dimensions are outside the recommended installation instructions.



Frontal Clear Zones (FCZ) = 26″ (660mm) with Shoulder Belt

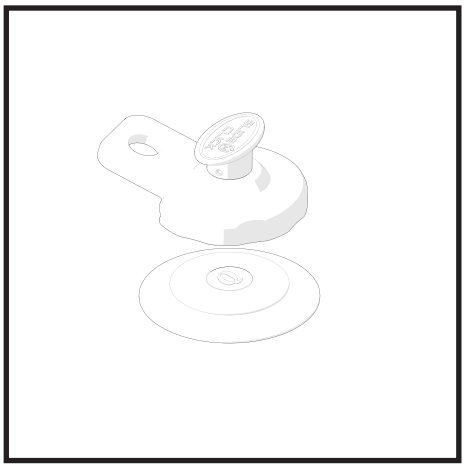
We recommend using Shoulder and Lap Belts to reduce the possibility of head and chest impacts with vehicle components. FCZ may not be achievable with wheelchair-seated drivers.



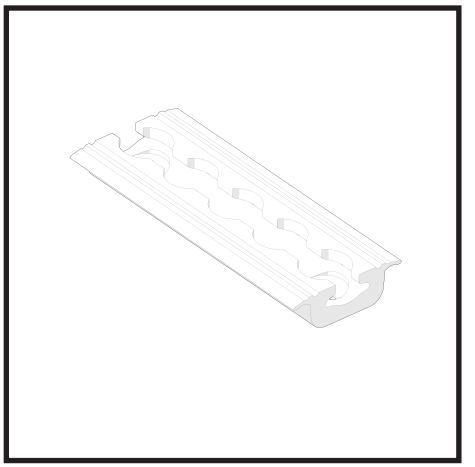
Layout for All Anchorages

SYSTEM DEFINITIONS

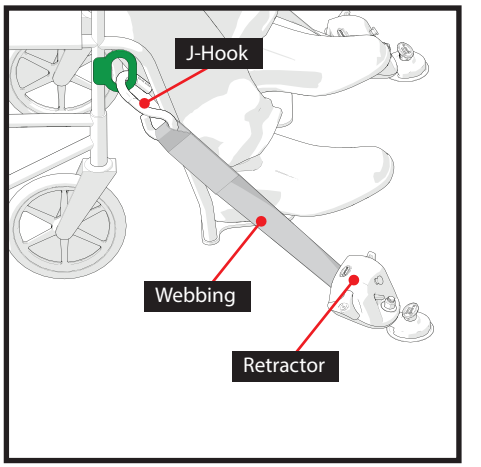
2 Different Floor Anchorages



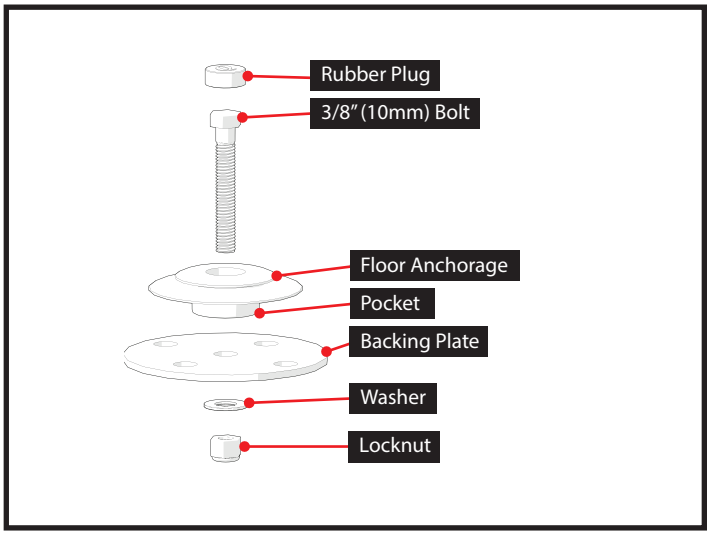
Slide 'n Click



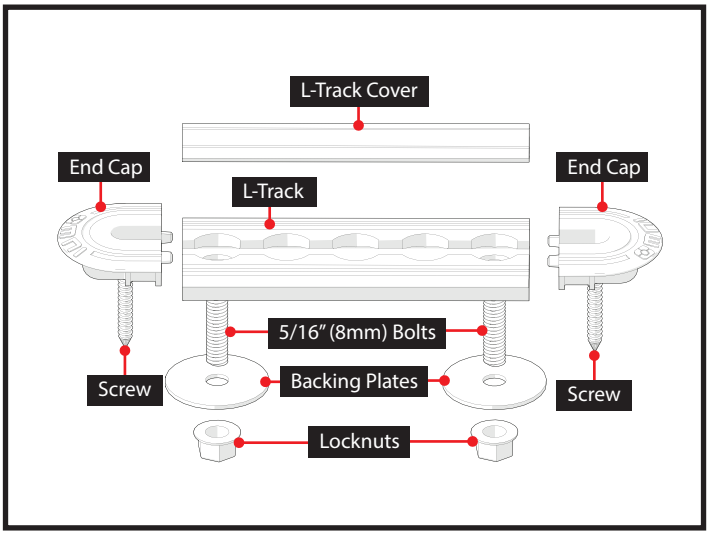
L-Track



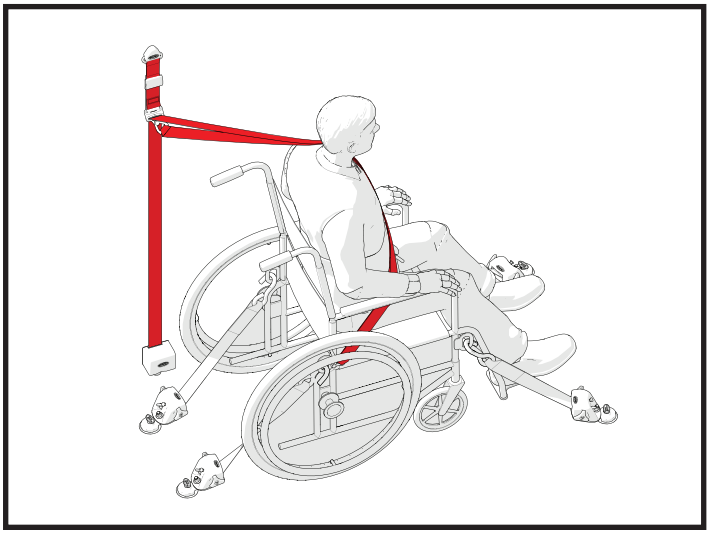
QRT-360 Retractor



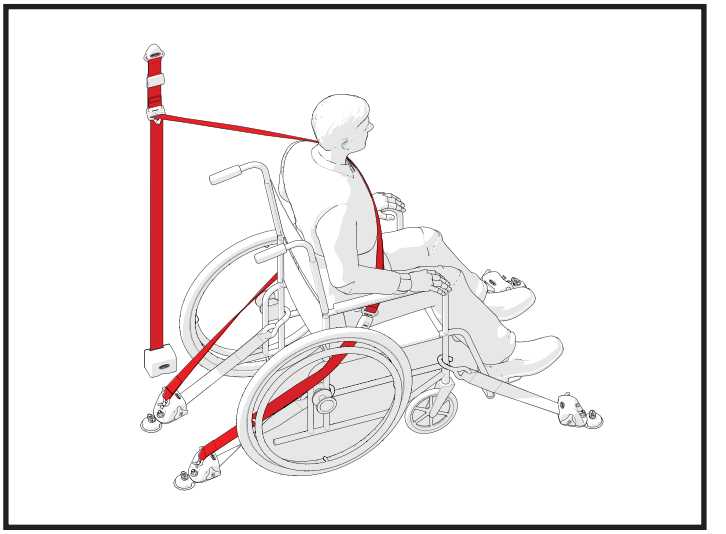
Slide 'n Click Anchorage



L-Track Anchorage



WC19 Shoulder and Pelvic Belt Restraint



Non WC19 Shoulder and Pelvic Restraint

INSTALLATION CHECKLIST

- [ ] Safety eye glasses **MUST** be worn whenever installing or servicing this system.

- [ ] Before installation, inspect the underside of vehicle floor, note utilities, frames, cross-members, fuel tanks and other possible obstructions—any questions contact the vehicle OEM.

- [ ] **Vehicle anchor points may require reinforcement.** The installer or manufacturer is responsible for ensuring anchorages are installed into suitable floor structures. Floor strength **MUST** meet specific regulations, standards and applicable performance requirements from local transportation authorities.

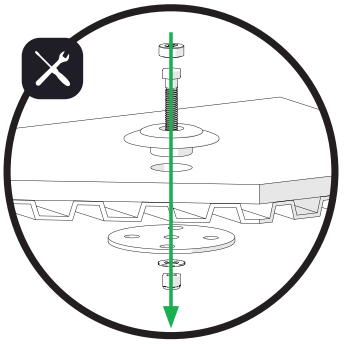
- [ ] Do **NOT** install anchorages or any system components into faulty materials such as corroded metal, wood, plastic or fiberglass panels.

- [ ] The floor and shoulder belt anchorages **MUST** be installed onto a flat and durable surface.

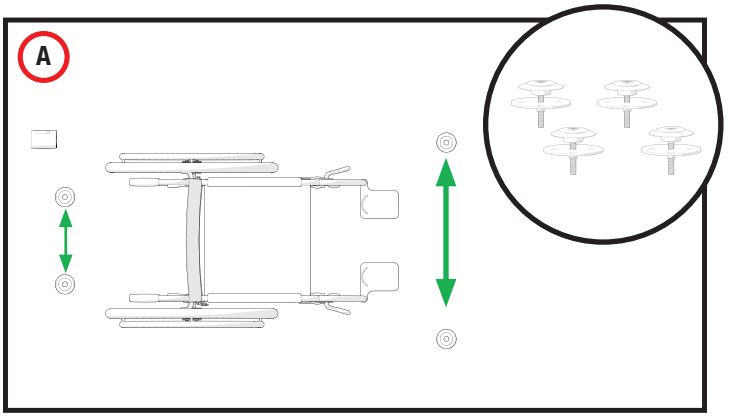
- [ ] **Only use Hardware** with a minimum Grade 8, which meets ASTM F835 ,SAE J429 or ASTM 574 specifications (depending on head style and drive), and coated for adequate protection against corrosion per ISO 7253 or ASTM B117 or per customer requirements.

- [ ] Modifications to Backing Plate **MUST** only be made where necessary as a smaller plate size reduces the floor load distribution. Always leave a minimum of .6" (15mm) adjacent the bolt hole in the plate.

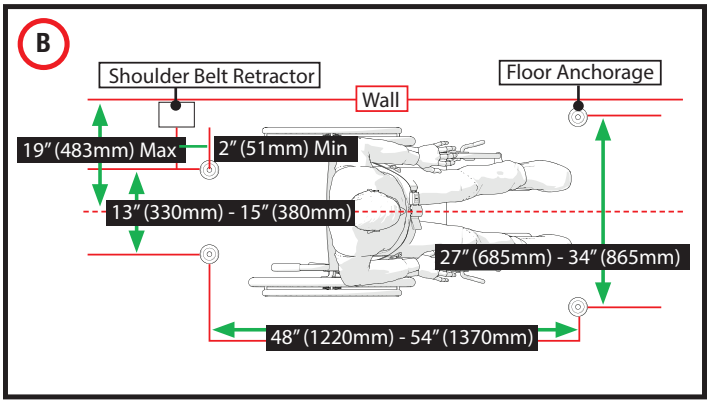
SLIDE 'N CLICK ANCHORAGE INSTALLATION



Slide 'n Click Anchorage Installation Sequence

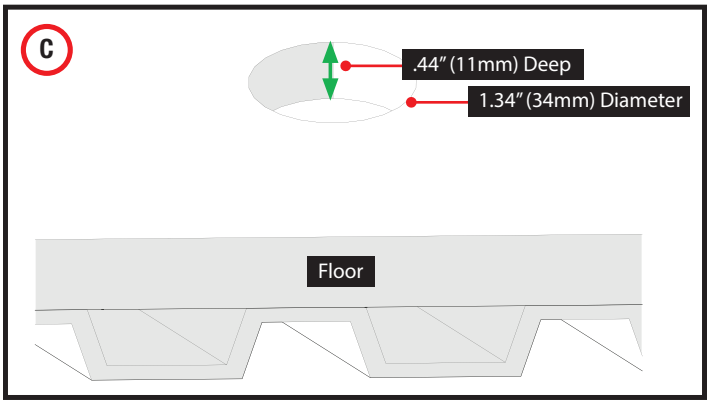


1. Choose and mark location for installing the Slide 'n Click Floor Anchorages (**A**).

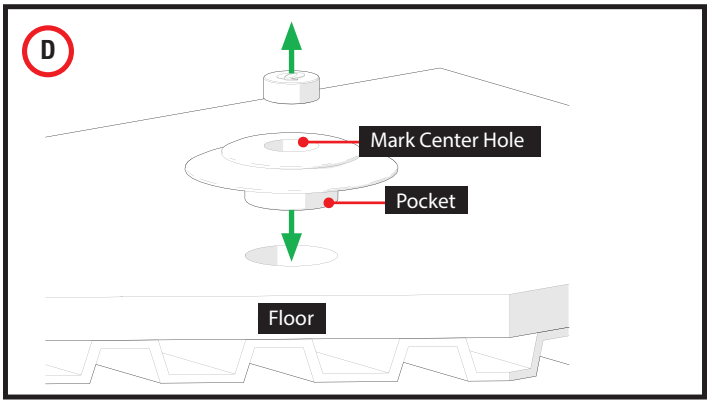


Recommended distances for Slide 'n Click Floor Anchorages (**B**).

2. Route an area in the floor for each Floor Anchorage Pocket—1.34" (34mm) diameter and .44" (11mm) Deep (**C**). Clean out debris.

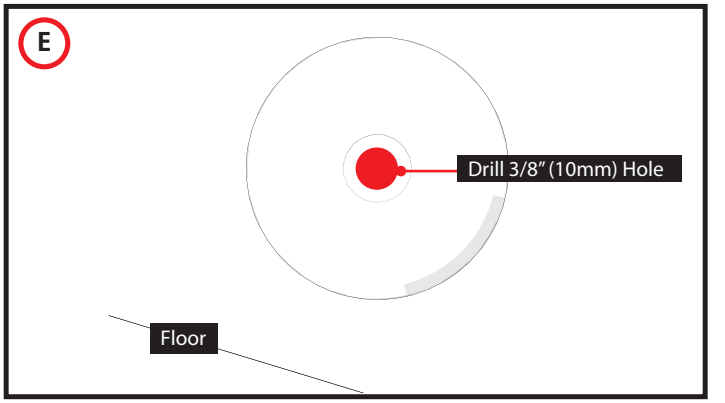


3. Remove Rubber Plug, insert Pocket into floor and use it as template to mark center hole for drilling (**D**).

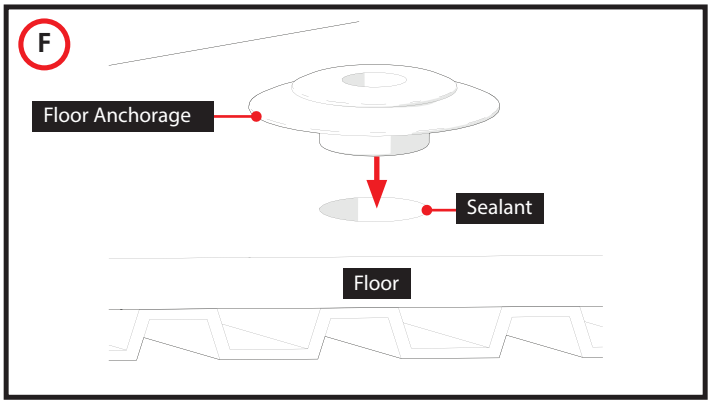


SLIDE 'N CLICK ANCHORAGE INSTALLATION

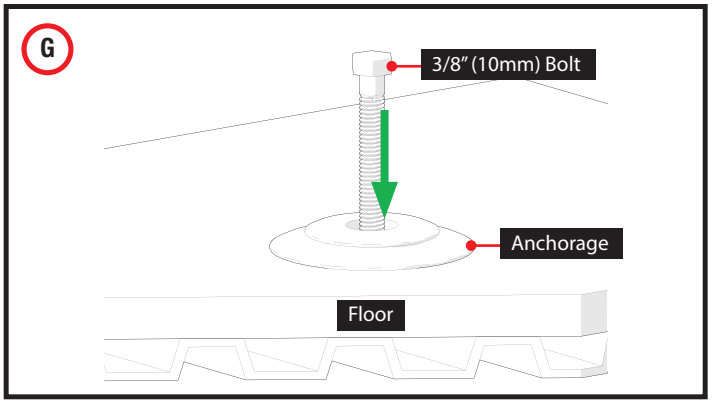
4. Remove Floor Anchorage and drill 3/8" (10mm) hole through floor (**E**). Clean out debris.



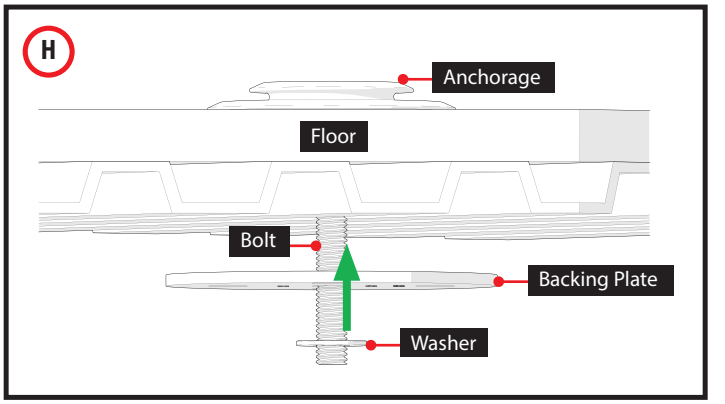
5. Place sealant inside floor opening and install Floor Anchorage into floor (**F**).



6. Put 3/8" (10mm) Bolt through Anchorage and floor (**G**).



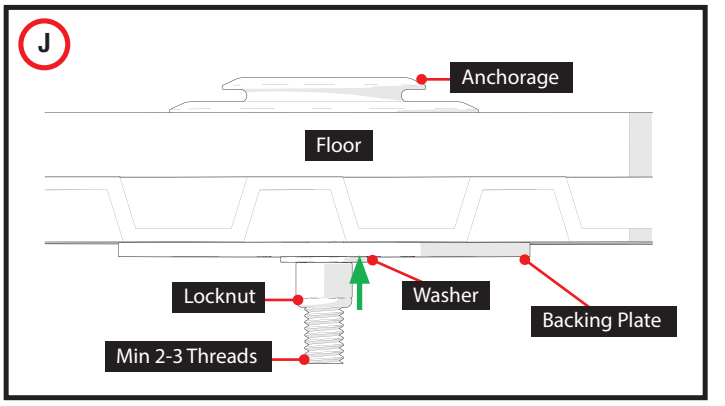
7. From underneath vehicle floor, put Bolt through Backing Plate and Washer (**H**).



We recommend using sealant between Backing Plate and floor.

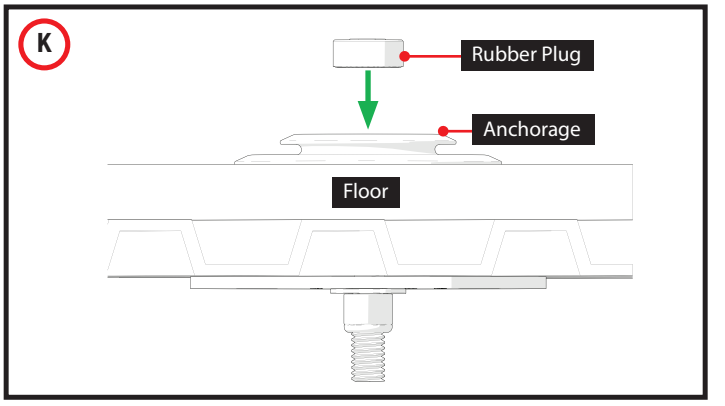
SLIDE 'N CLICK ANCHORAGE INSTALLATION

8. Secure Bolt with Locknut, leaving a minimum of 2-3 threads from Bolt sticking out (**J**).

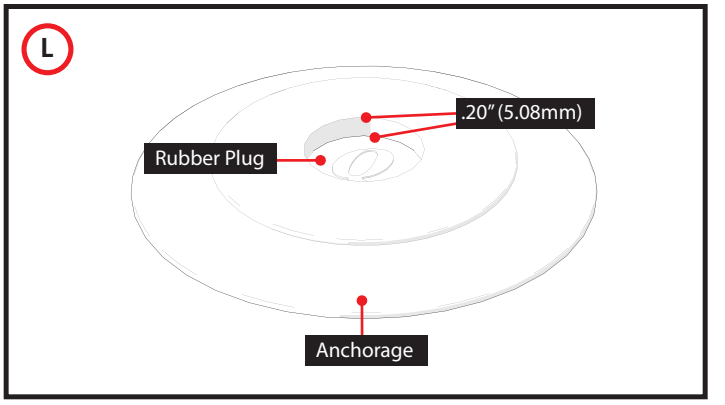


Use a thin wall socket. *Recommended torque, 35 FT/LB (47 Nm).*

9. Insert Rubber Plug into Floor Anchorage and push it down firmly onto Bolt head (**K**).



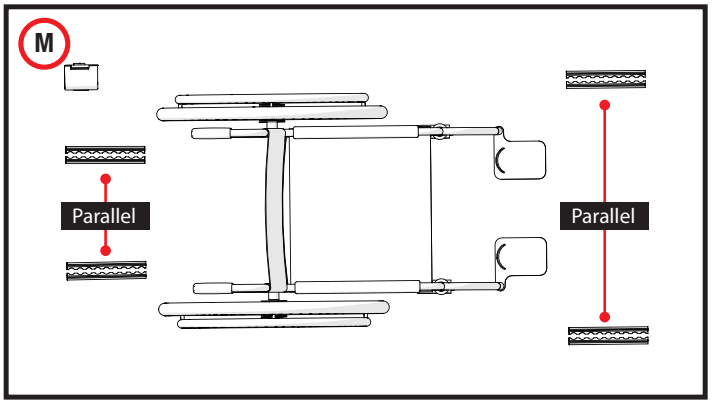
Leave a minimum distance of approximately .20" (5.08mm) from Rubber Plug to top of Floor Anchorage (about the width of a standard pencil eraser) (**L**).



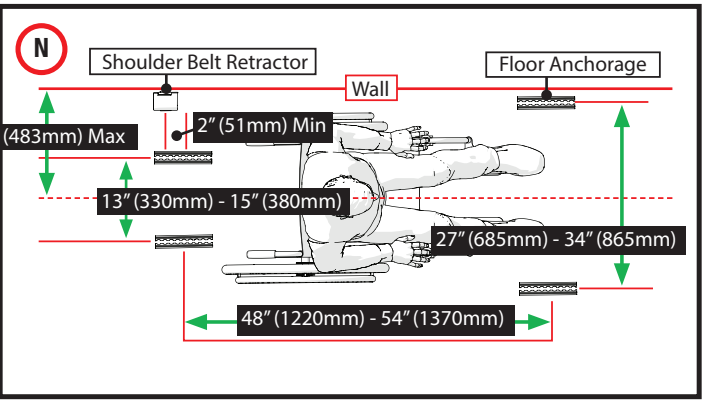
10. Repeat steps 2-9 for the remaining 3 Slide 'n Click Floor Anchorages.

L-TRACK ANCHORAGE AND END CAPS INSTALLATION

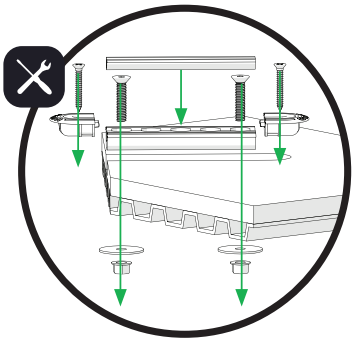
L-Track (including full length track) can be installed parallel to wheelchair location (**M**).



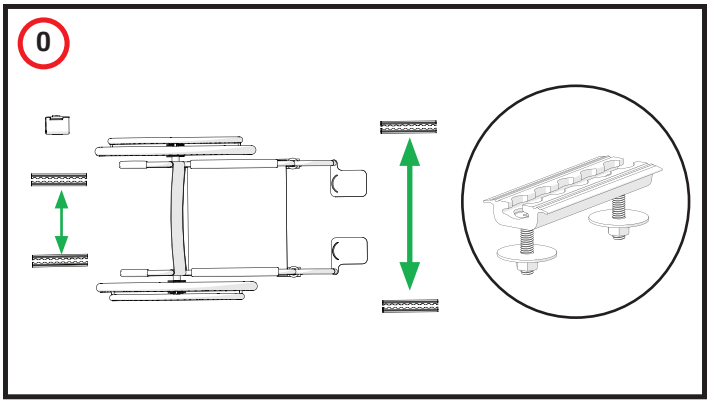
Recommended distance for L-Track Floor Anchorages (**N**).



L-TRACK ANCHORAGE AND END CAPS INSTALLATION



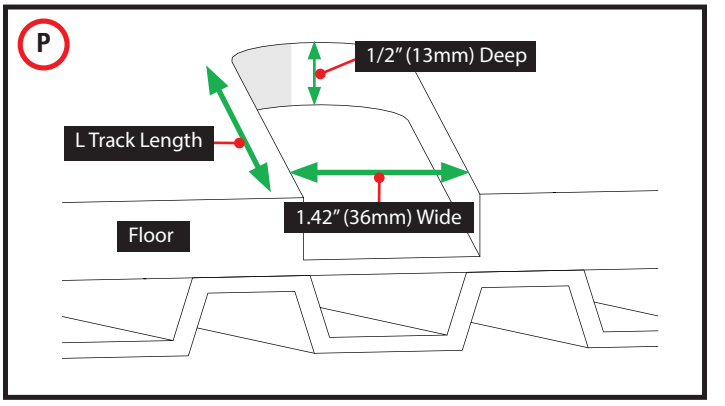
L-Track Anchorage and End Caps Installation Sequence



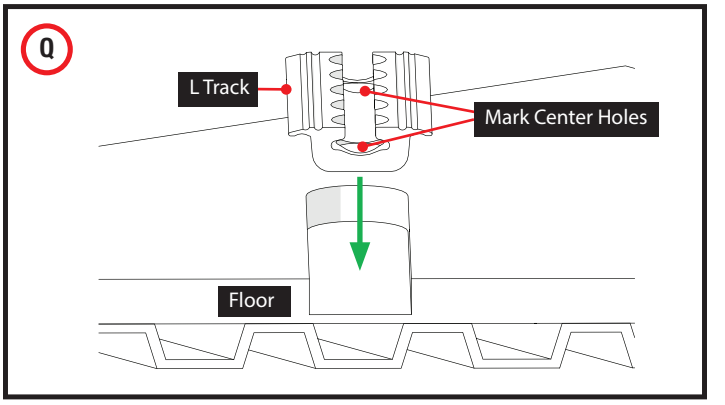
1. Choose and mark location for installing the L-Track Anchorages (**O**).

If installing the End Caps follow steps below:
If not, proceed to step 2. (Note: Routing for L-Tracks and End Caps should be done at the same time.)

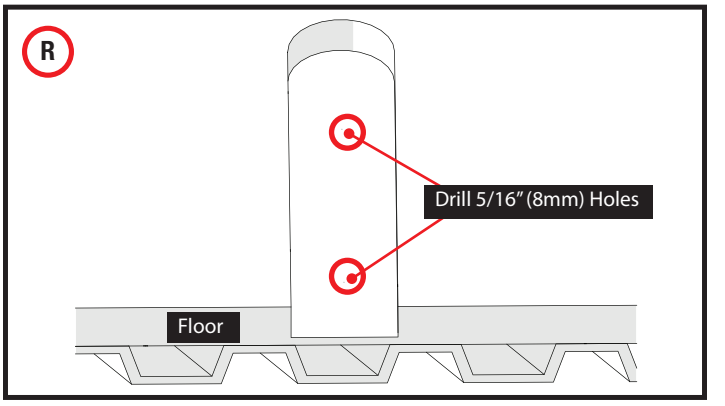
- Mark location for installing the End Caps at the end of each L-Track.
- Then, route an area in the floor for End Caps—1/2" (13mm) deep and 1.42" (36mm) wide with semi-circular diameter to match End Cap profile (**P**). Clean out debris.
- **Proceed to step 2.**



2. Route an area in the floor for each L-Track—1.42" (36mm) wide, 1/2" (13mm) deep and L-Track length (**P**). Clean out debris.



3. Insert L-Track into floor and use it as a template to mark center holes for drilling (**Q**).

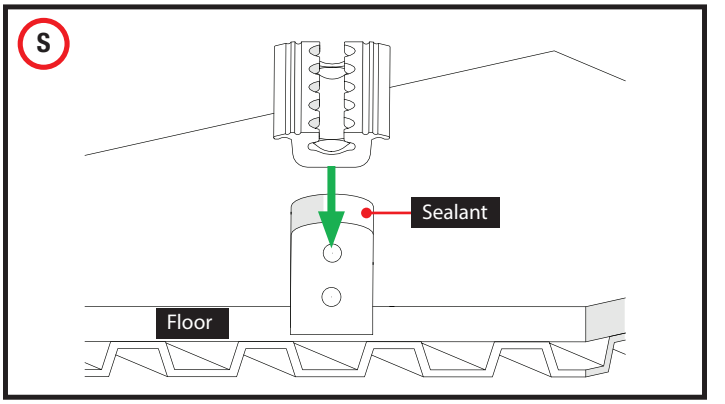


4. Remove L-Track and drill 5/16" (8mm) holes through floor per track drilling pattern (**R**) and clean out debris.

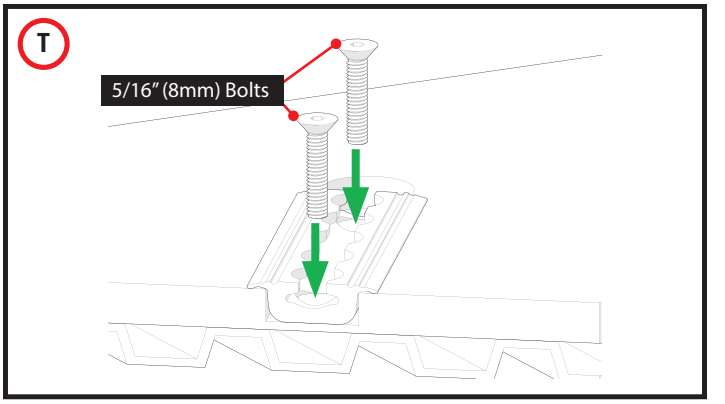
Note: Standard track drilling pattern = holes every 4" (102mm).

L-TRACK ANCHORAGE AND END CAPS INSTALLATION

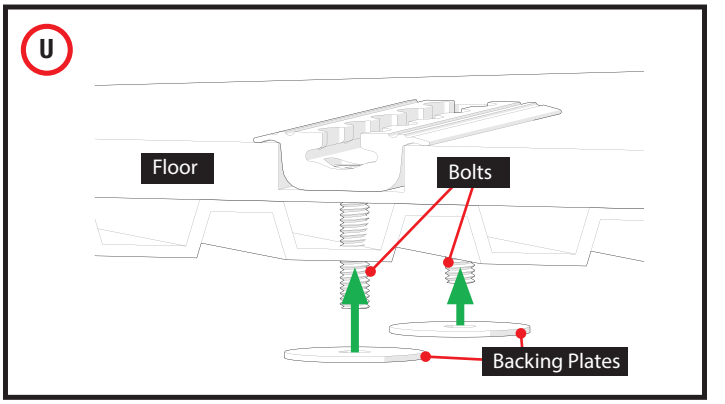
5. Place sealant inside floor opening and install L-Track into floor (**S**).



6. Put 5/16" (8mm) Bolts through L-Track and floor (**T**).

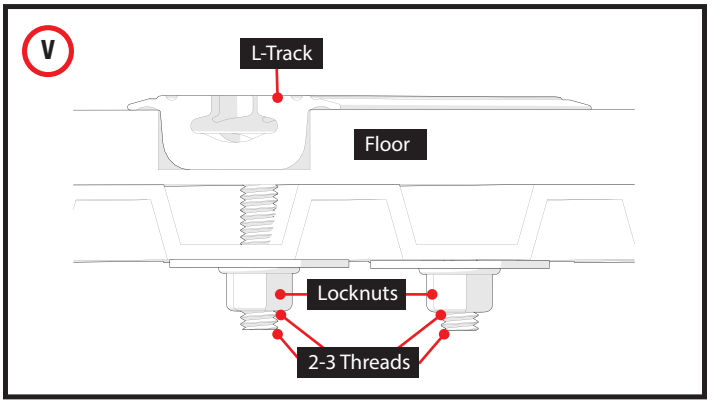


7. From underneath vehicle floor, put Bolts through Backing Plates (**U**).



We recommend using sealant between Backing Plate and floor.

8. Secure Bolts with Locknuts, leaving a minimum of 2-3 threads from Bolt sticking out (**V**).



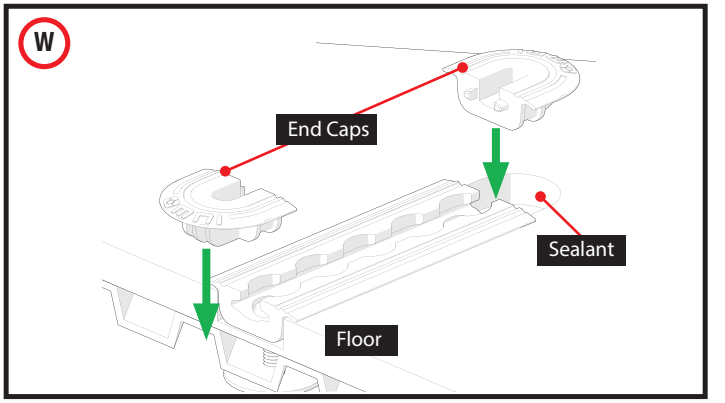
Recommended torque, 25 FT/LB (34 Nm).

9. Repeat steps 2-8 for the remaining L-Track Anchorages.

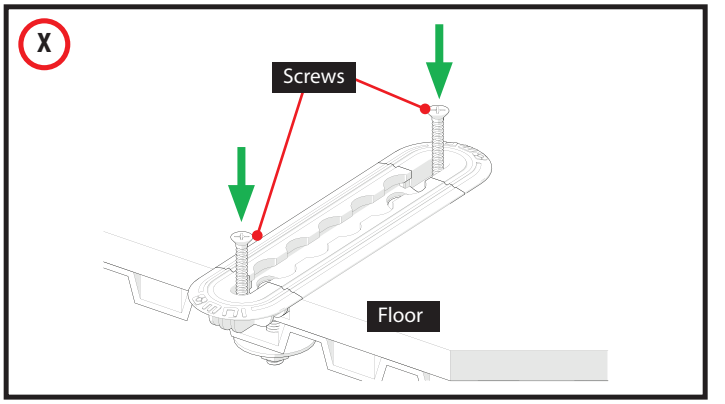
L-TRACK ANCHORAGE AND END CAPS INSTALLATION

If installing End Caps, follow steps 10-11.

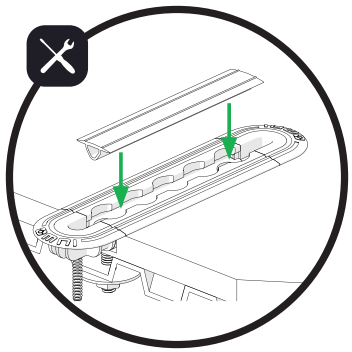
10. Clean out debris. Place sealant inside floor opening and install End Caps into floor (**W**).



11. Secure End Caps to floor with screws (**X**).



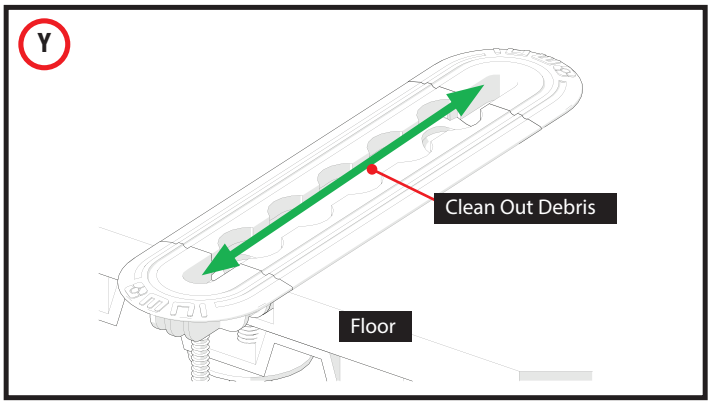
L-TRACK COVER INSTALLATION

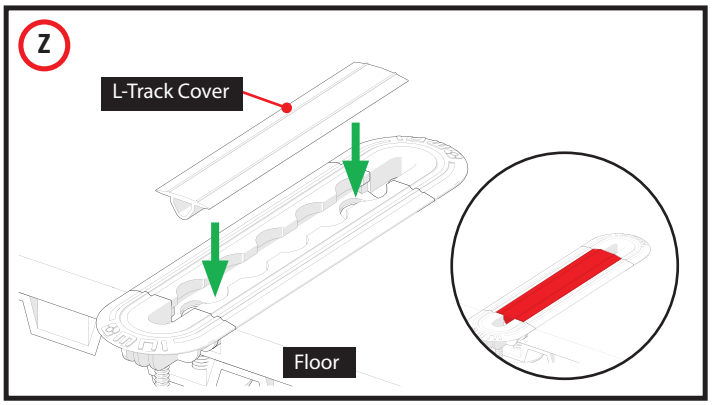


L-Track Cover Installation Sequence

1. Clean out debris from L-Tracks (and End Caps) with pressurized air (**Y**).

2. Place L-Track Cover over L-Track and snap into place (**Z**).

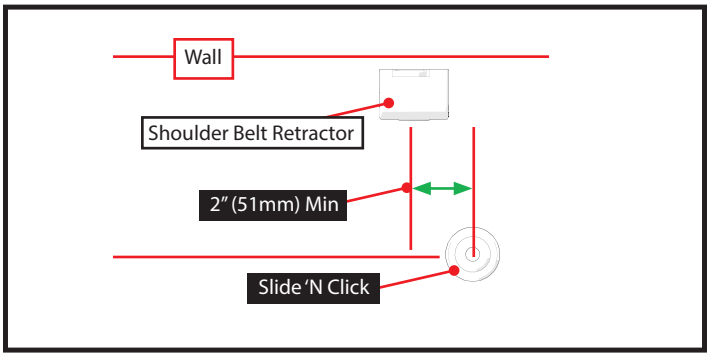




SHOULDER AND LAP BELT INSTALLATION

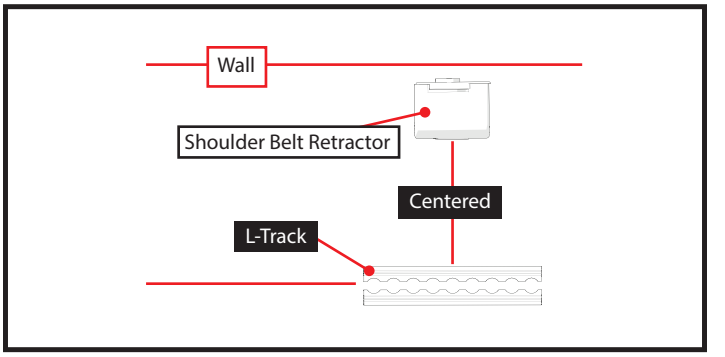
INSTALLATION CHECKLIST

- ☐ **Lower anchorage point should be adjacent to or slightly behind rear floor anchorages.**



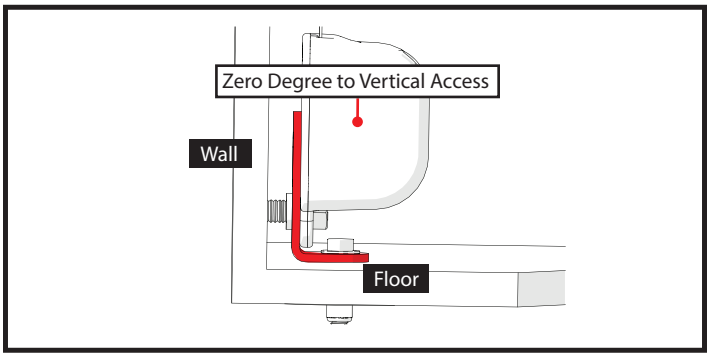
- ☐ **For proper webbing movement, mounted retractor MUST be at 0° (zero degree) rotation with respect to vertical access.**

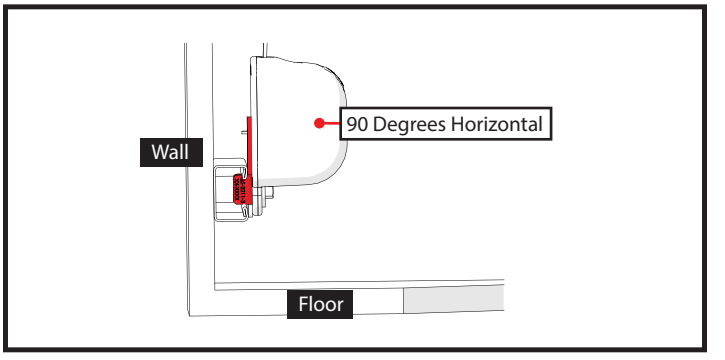
- ☐ **Shoulder Belt Retractor in mounted position MUST be at 90° (degrees) horizontal to ensure proper webbing movement.**



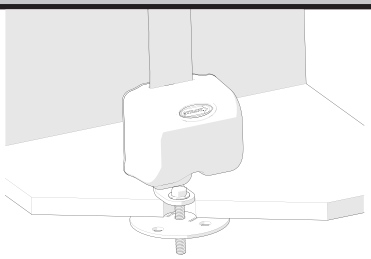
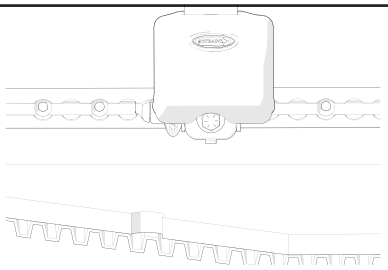
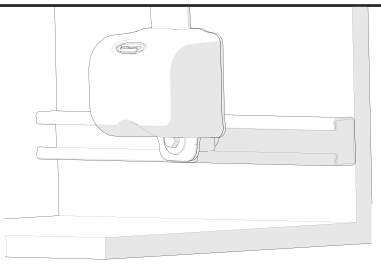
- ☐ **The floor and shoulder belt anchorages MUST be installed onto a flat and durable surface.**

- ☐ **Before installation, inspect the underside of vehicle floor, note utilities, frames, cross-members, fuel tanks and other possible obstructions—any questions contact the vehicle OEM.**

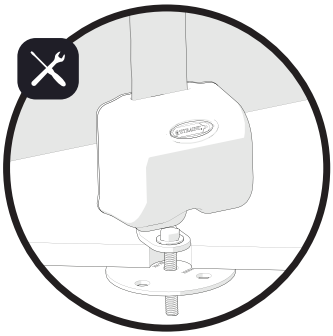




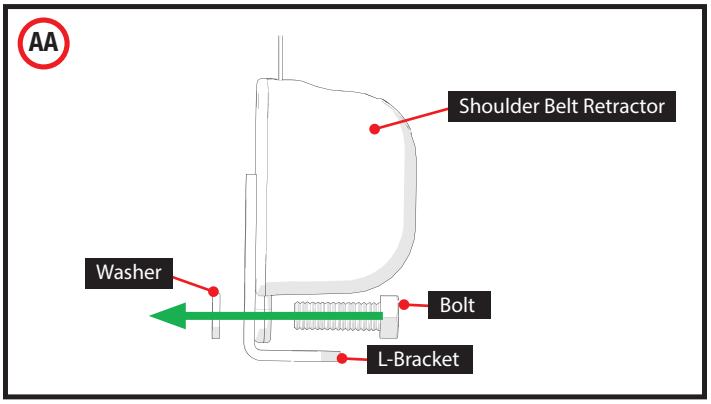
SHOULDER AND LAP BELT INSTALLATION

CHOOSE MOUNTING OPTION	IMAGE	APPLICATION	PART#	PAGE#
Shoulder Belt Anchorage		**Mounted directly to Floor**	No additional parts needed	**21**
Shoulder Belt Anchorage with PLI		**Mounted to L-Track on Floor**	PLI Part # and L-Track, Call Authorized Dealer	**23**
Shoulder Belt Anchorage with PLI		**Mounted to L-Track on Wall**	PLI Part # and L-Track, Call Authorized Dealer	**26**
Shoulder Belt Anchorage		**Mounted directly to Unistrut® Bracket on Wall**	Unistrut® Bracket Kit Part #, Call Authorized Dealer	**27**

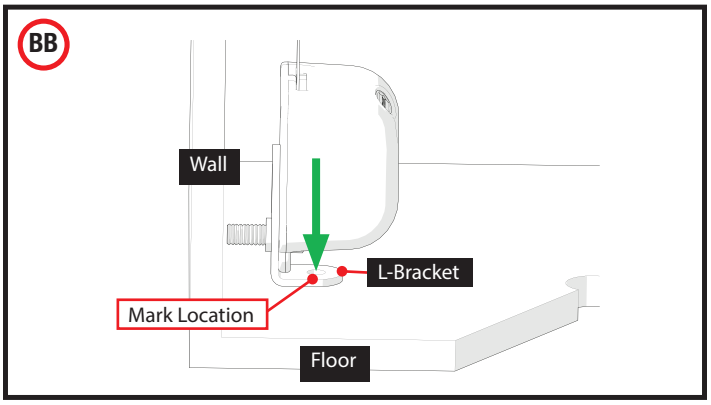
SHOULDER AND LAP BELT INSTALLATION



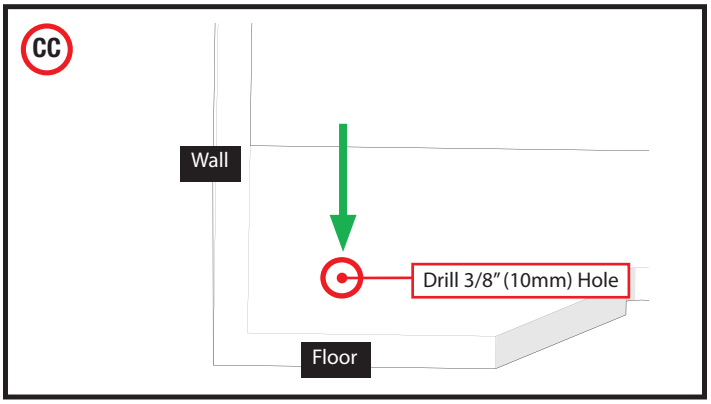
Shoulder Belt Anchorage Mounted Directly to Floor



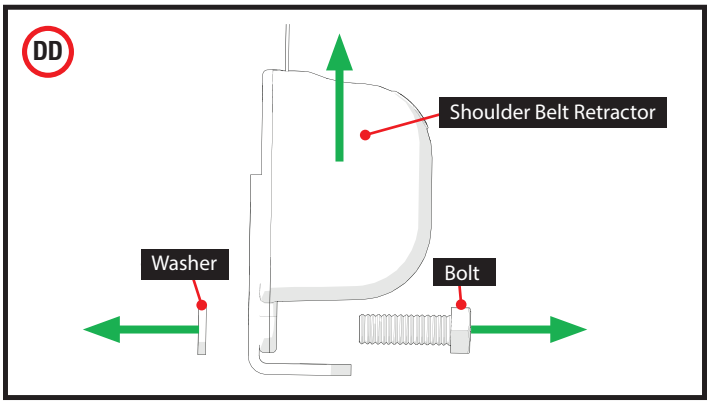
1. Temporarily place Bolt through Shoulder Belt Retractor, L-Bracket and Washer (**AA**).



2. Use L-Bracket as a template to mark center hole for drilling (**BB**).

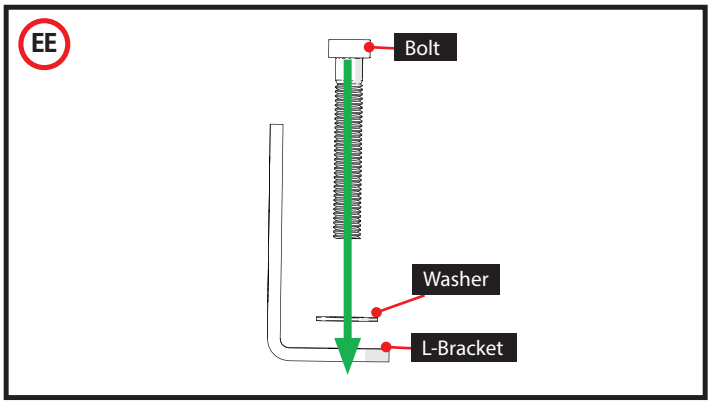


3. Remove Shoulder Belt Anchorage and drill 3/8" (10mm) hole through floor (**CC**). Clean out debris.



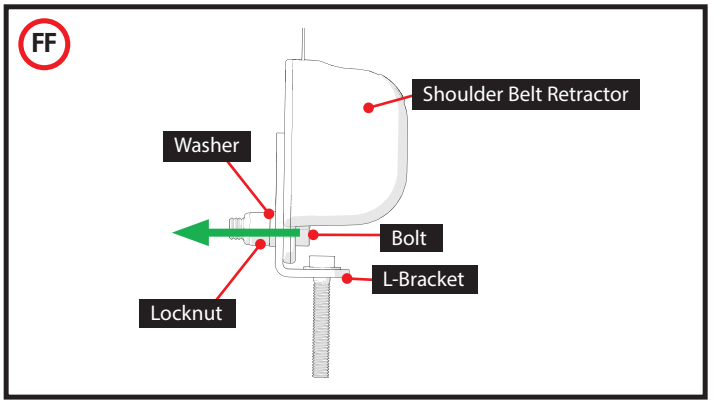
4. Remove Bolt, washer and Shoulder Belt Retractor (**DD**).

5. Place Bolt through washer and L-Bracket (**EE**).



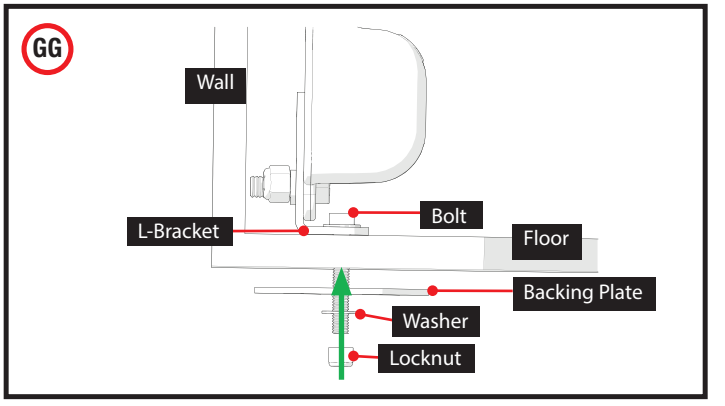
6. Align Shoulder Belt Retractor with L-Bracket. Put Bolt through Retractor, L-Bracket and Washer—tighten with Locknut (**FF**).

Recommended torque = 35 FT/LB (47 Nm).



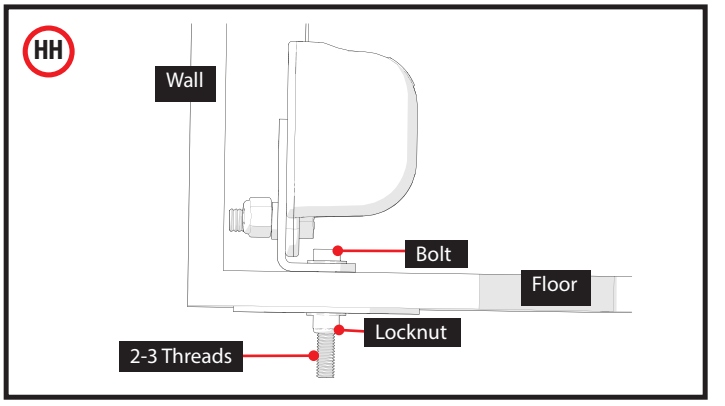
7. Place Bolt through floor. From underneath the vehicle floor place Bolt through Backing Plate, Washer and Locknut (**GG**).

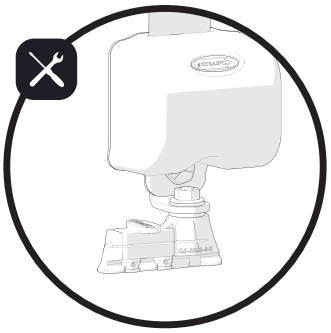
For proper webbing movement, mounted retractor MUST be at 0º (zero degree) rotation with respect to vertical access. We recommend using a sealant between L-Bracket and floor—floor and Backing Plate.



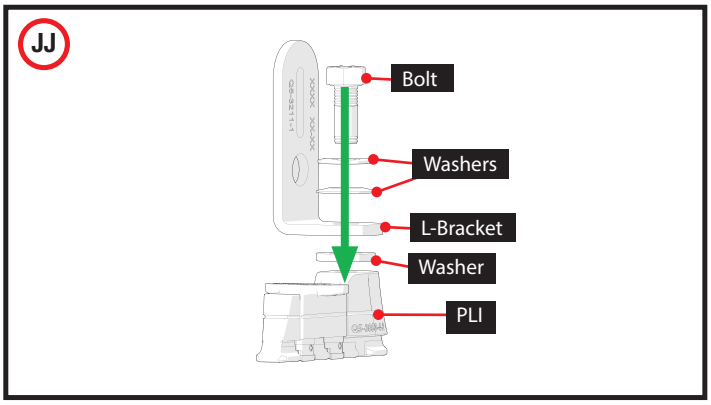
8. Secure Bolt with Locknut, leaving a minimum of 2-3 threads from Bolt sticking out (**HH**).

Recommended torque = 35 FT/LB (47 Nm).



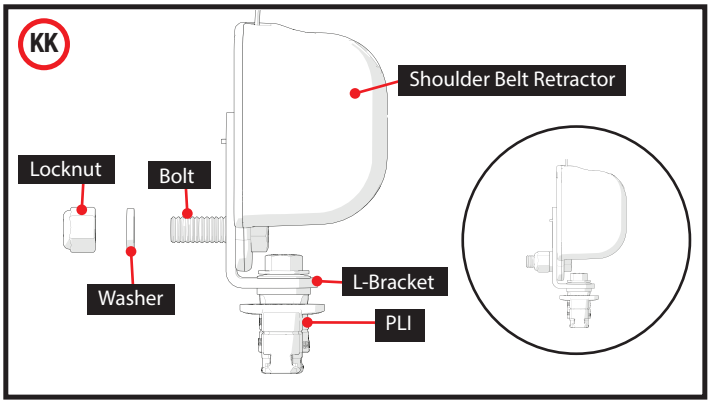


Shoulder Belt Anchorage with PLI Mounted to L-Track on Floor



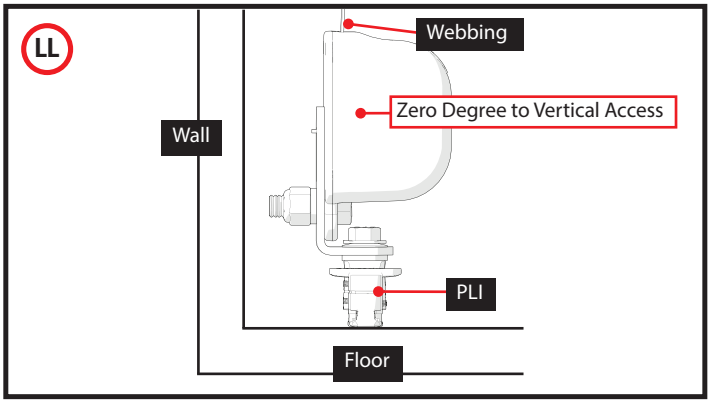
1. Place Bolt through Washers, L-Bracket, Washer and PLI—tighten Bolt (**JJ**).

Recommended torque = 50 FT/LB (67 Nm).



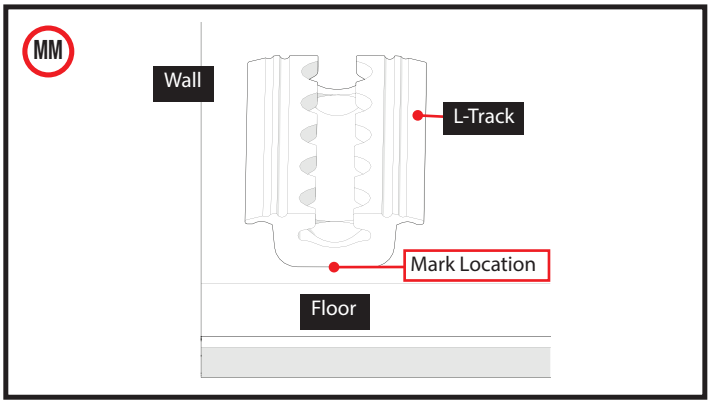
2. Align Shoulder Belt Retractor with L-Bracket. Place Bolt through Retractor, L-Bracket, Washer and Locknut—tighten Locknut (**KK**).

Recommended torque = 35 FT/LB (47 Nm).



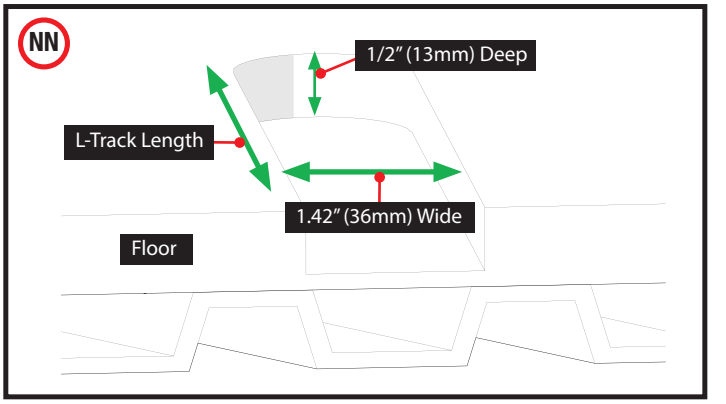
3. Use PLI as a template to mark L-Track position on floor next to wall (**LL**).

For proper webbing movement, mounted retractor MUST be at 0° (zero degree) rotation with respect to vertical access.

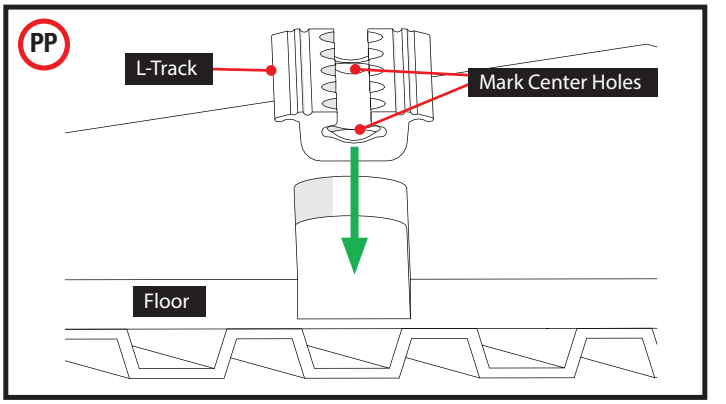


4. Mark location for installing L-Track Anchorage (**MM**).

5. Route an area in the floor for L-Track—1.42″ (36mm) wide, ½″ (13mm) deep and L-Track Length (**NN**). Clean out debris.

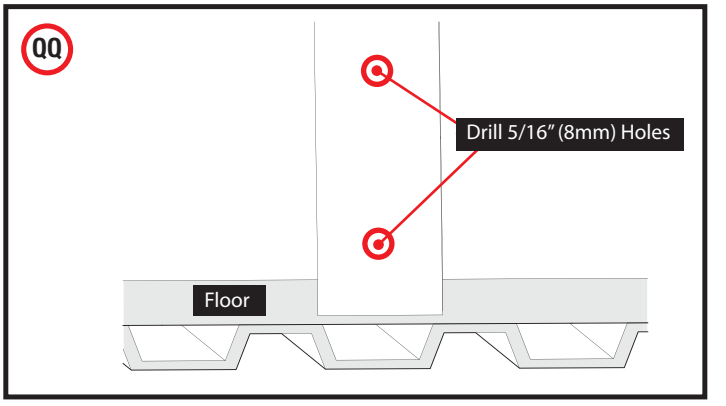


6. Insert L-Track into Floor and use it as a template to mark center holes for drilling (**PP**).

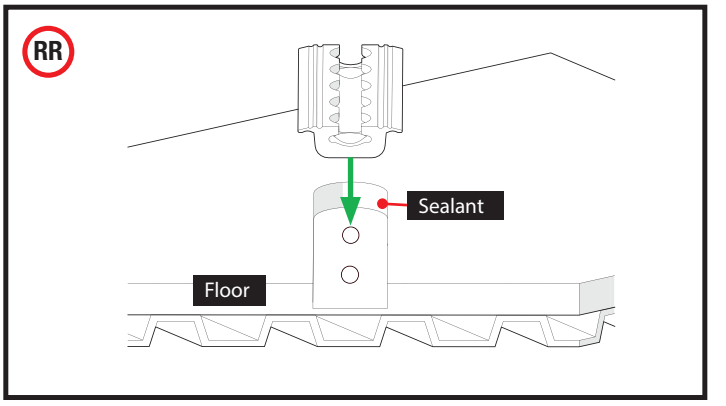


7. Remove L-Track and Drill 5/16″ (8mm) holes through floor per track drilling pattern (**QQ**) and clean out debris.

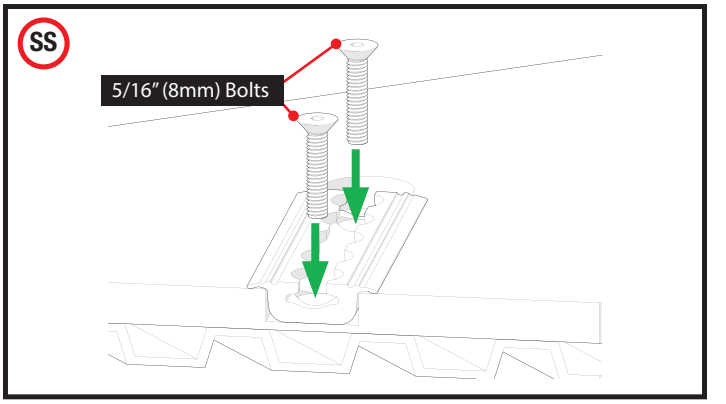
Note: Standard track drilling pattern = holes every 4″ (102mm).



8. Place sealant inside floor opening and install L-Track into floor (**RR**).

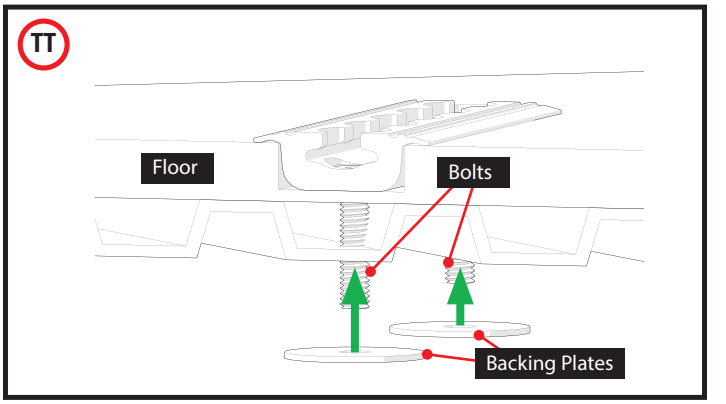


9. Put 5/16" (8mm) Bolts through L-Track and floor (**SS**).



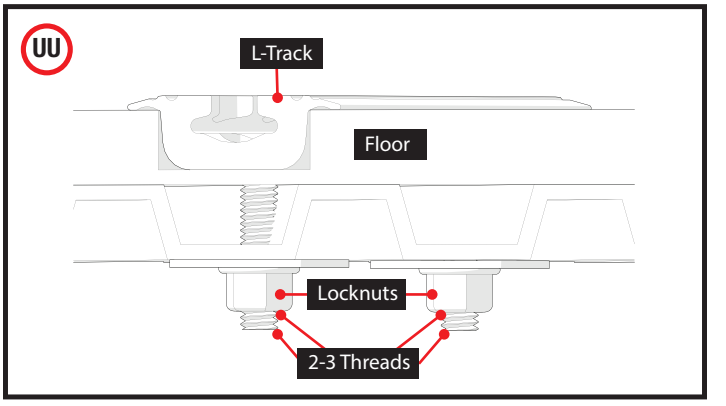
10. From underneath vehicle floor, put Bolts through Baking Plate (**TT**).

We recommend using sealant between Backing Plate and floor.

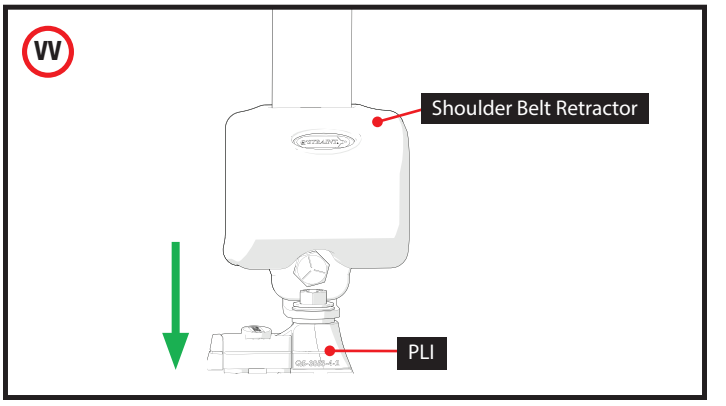


11. Secure Bolts with Locknuts, leaving a minimum of 2-3 threads from Bolt sticking out (**UU**).

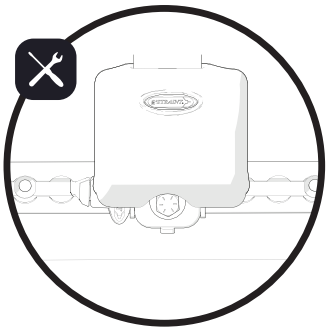
Recommended torque, 25 FT/LB (34 Nm).



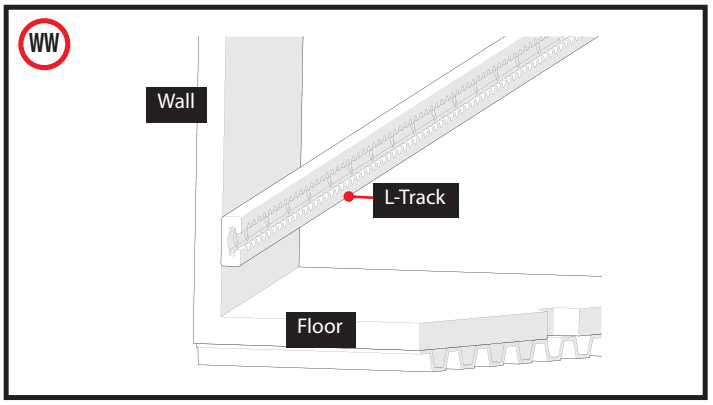
12. Insert PLI from Shoulder Belt Retractor into L-Track on floor (**VV**).



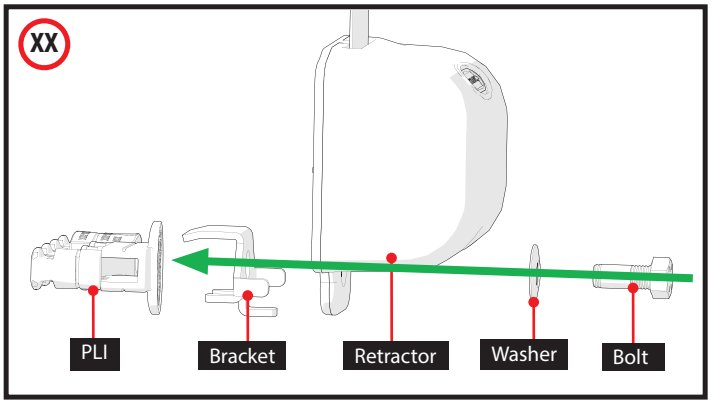
SHOULDER AND LAP BELT INSTALLATION



Shoulder Belt Anchorage with PLI Mounted to L-Track on Wall



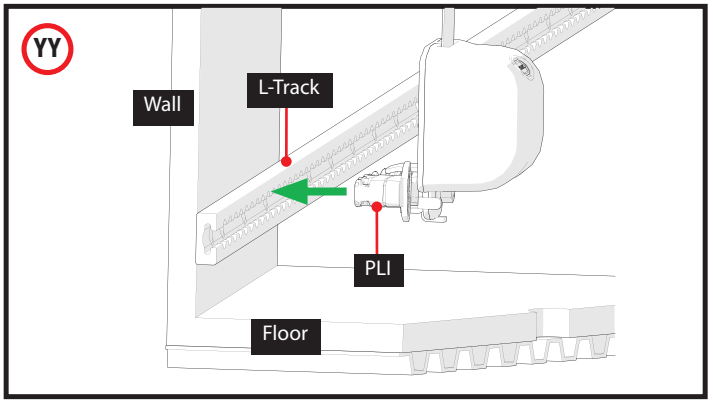
1. Use L-Track as a template to mark location and holes for installation. Remove L-Track and Drill 5-16" (8mm) holes through wall per track drilling pattern and clean out debris. Place sealant between L-Track and wall. Align L-Track with holes on wall and put 5/16" (8mm) Bolts through L-Track and wall. On the other side of the wall put Bolt through Backing Plate and secure Bolt with Locknut—leaving a minimum of 2-3 threads from Bolt sticking out (**WW**).



Beware of electrical wires behind wall. Standard track drilling pattern = holes every 4" (102mm). ***Recommended torque, 25 Ft/LB (34 Nm).***

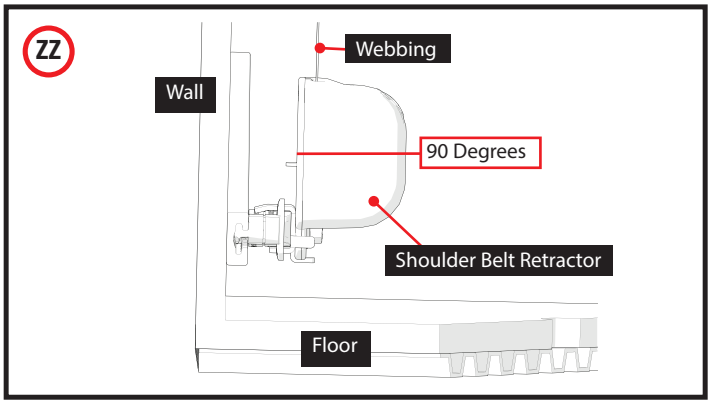
2. Put Bolt through washer Shoulder Belt Retractor, Anti-Rotation Bracket and screw Bolt into PLI (**XX**).

Recommended torque = 50 FT/LB (67 Nm).

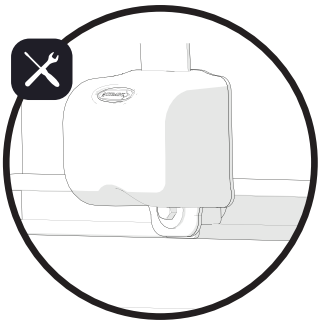


3. Insert PLI from Shoulder Belt Retractor into L-Track on wall (**YY**).

Shoulder Belt Retractor in mounted position MUST be at 90° (degrees) horizontal to ensure proper webbing movement (ZZ).

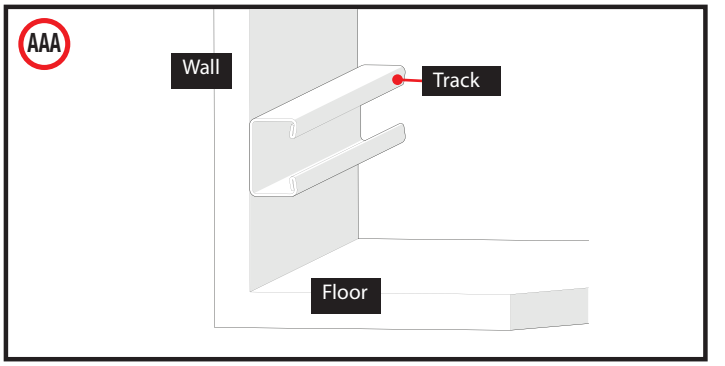


SHOULDER AND LAP BELT INSTALLATION

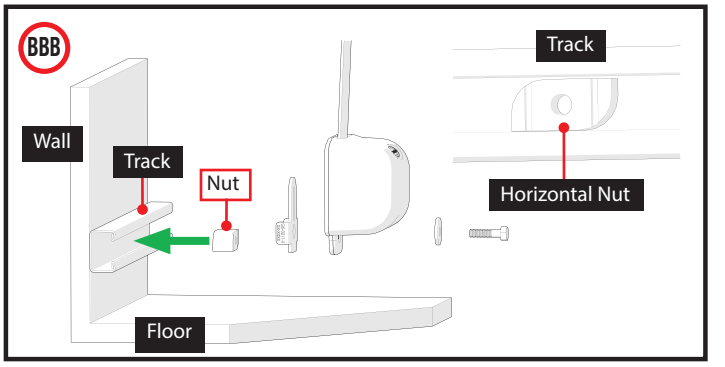


Shoulder Belt Anchorage
Mounted Directly to Unistrut® Bracket on Wall

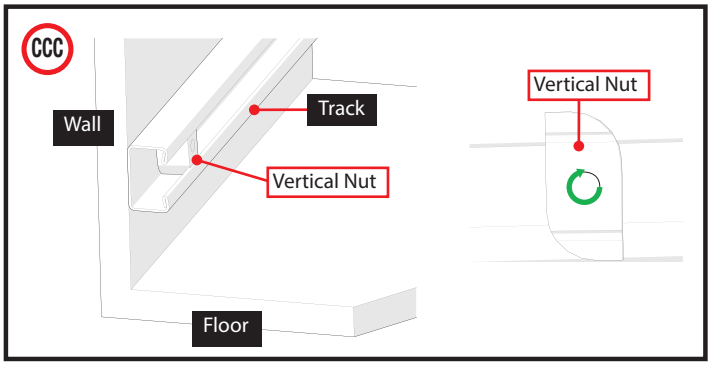
1. Install Unistrut® Track according to the instructions provided with track (**AAA**).



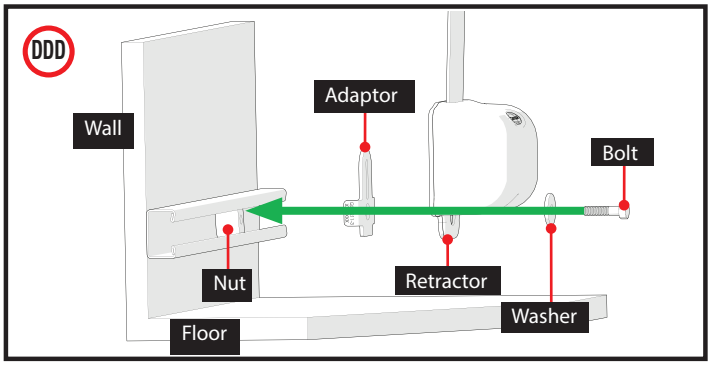
2. Insert Nut (horizontally) into Unistrut® Track (**BBB**).



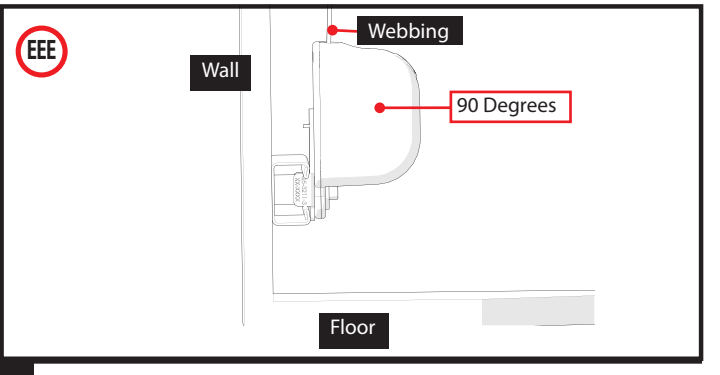
3. Use a screwdriver to turn Nut (vertically) while in Unistrut® Track (**CCC**).



4. Put Bolt through Washer, Retractor and Adaptor—secure Bolt into Nut (**DDD**).

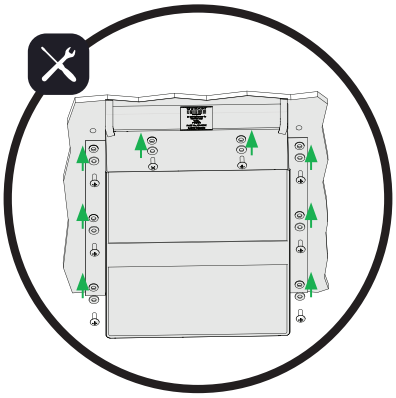


Recommended torque as required by OEM's specifications.

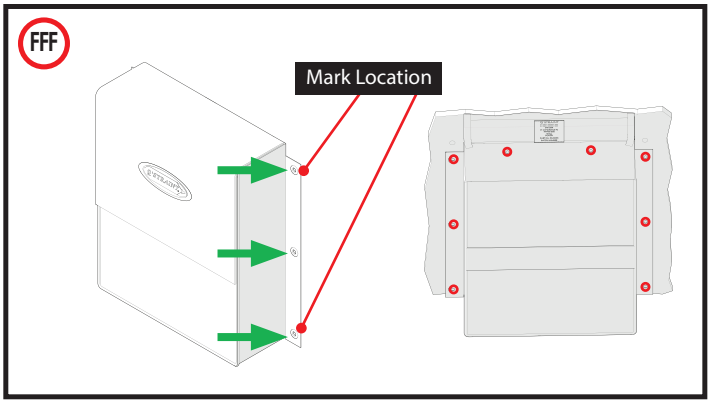


Shoulder Belt Retractor in mounted position MUST be at 90° (degrees) horizontal to ensure proper webbing movement (EEE).

WALL POUCH INSTALLATION

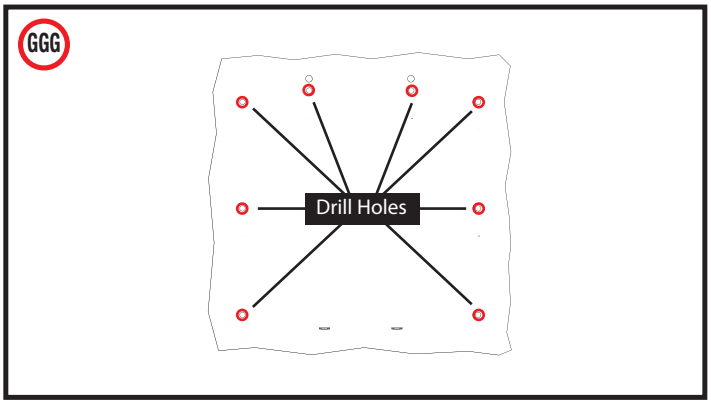


Wall Pouch
Installation Sequence

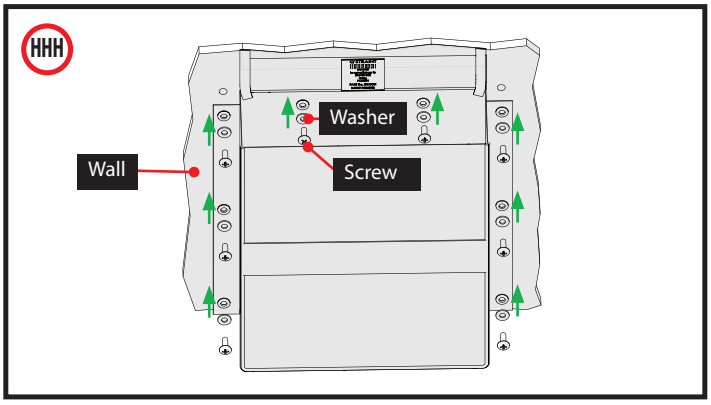


1. Select a structurally sound area in the vehicle (wall or under a flip-seat) to install Wall Pouch. Use Wall Pouch as a template to mark location (8 holes) for installation (**FFF**).

We recommend installing Wall Pouch on vehicle's side wall and near wheelchair location for easy accessibility.



2. Remove Wall Pouch and drill 8 holes (**GGG**). Clean out debris.

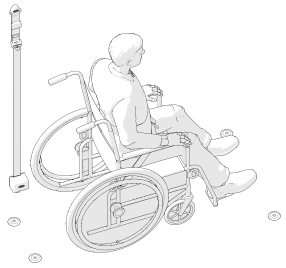
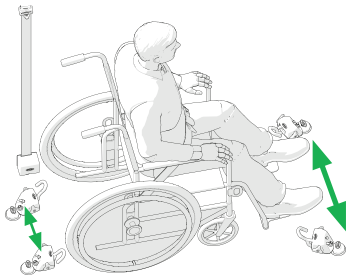
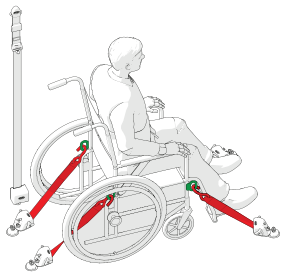
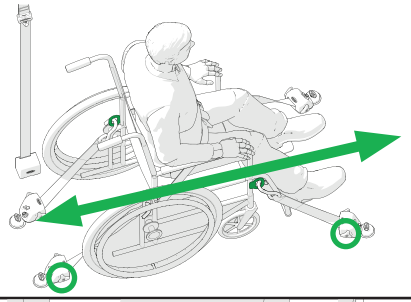
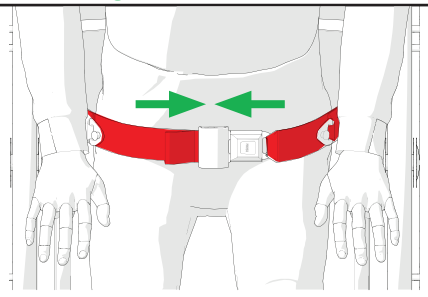


3. Secure Wall Pouch to selected area by putting Screws through Washers, Wall Pouch, wall and tightening Screws (**HHH**).

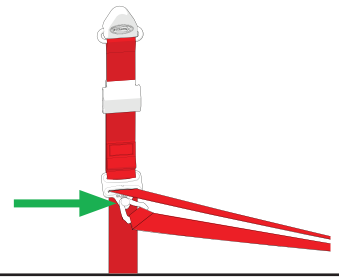
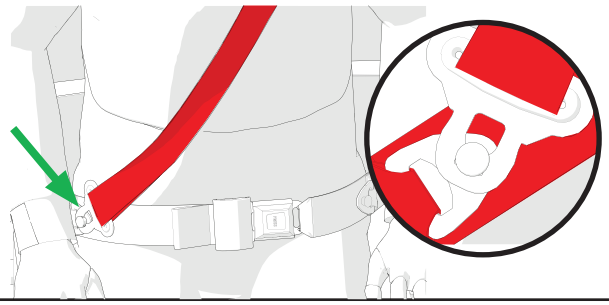
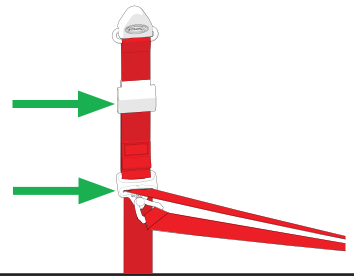
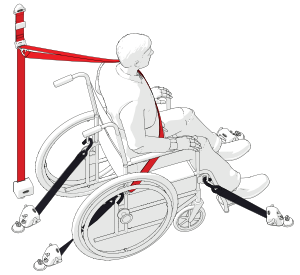
Use provided (Grade 8) Screws and Washers.

TESTING THE QRT-360 SYSTEM

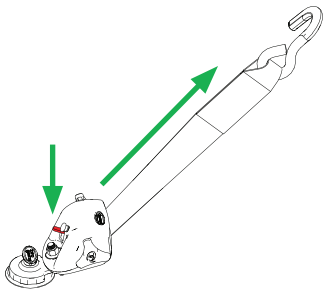
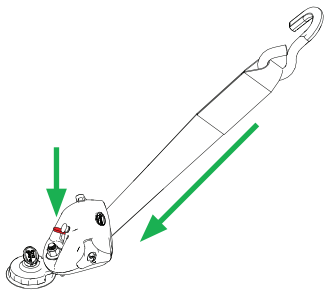
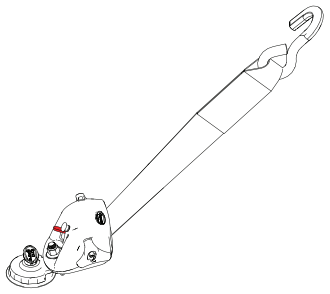
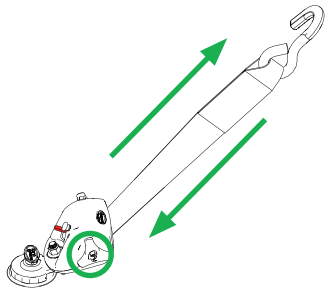
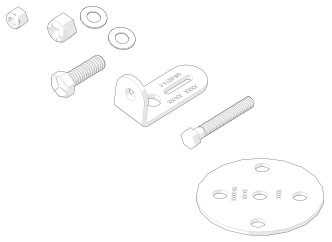
This is a quick guide, for complete operating instructions see Use and Care Manual to test the QRT-360 4-Point Wheelchair Securement System. The Use and Care Manual MUST first be read and understood before using this securement system.

#	OPERATING SEQUENCE	IMAGE
1	Center wheelchair facing forward in Securement Zone and lock wheelchair brakes (or power off electric chair).	
2	Attach 4 Retractors into Floor Anchorage points and lock them in place, with an approximate distance of 48" to 54" between front and rear Retractors.	
3	Completely pull out each Webbing and attach J-Hooks to compliant WC19 Chair Securement Points near seat level (or solid frame members) at an approximate 45 degree side angle.	
4	Move Wheelchair forward and back to remove webbing slack or manually tension webbing with Retractor Knobs.	
5	Make sure WC19 chair's Pelvic Belt is buckled over occupant's hips.	

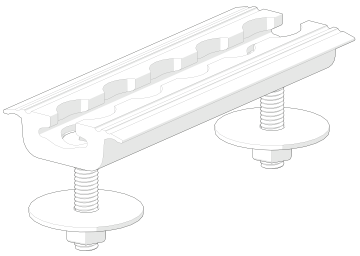
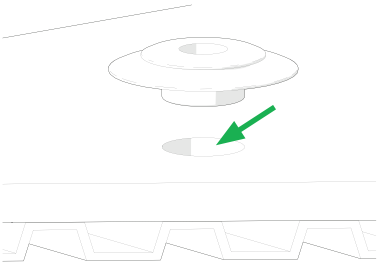
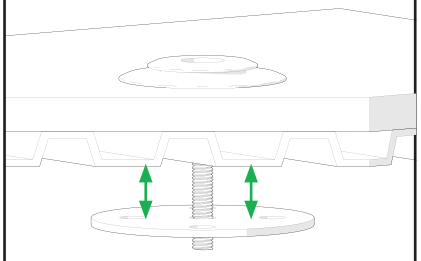
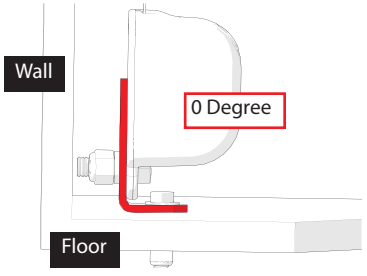
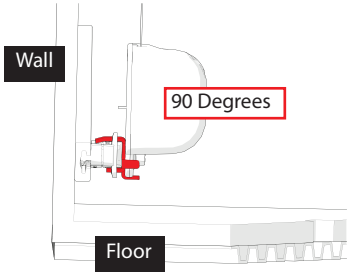
TESTING THE QRT-360 SYSTEM

#	OPERATING SEQUENCE	IMAGE
6	**Attach Shoulder Belt Pin Connector to Pin located on Shoulder Belt Height Adjuster.**	
7	**Pull Shoulder Belt over occupant's chest and attach Shoulder Belt Pelvic Connector to Pin on Compliant WC19 Pelvic Belt.**	
8	**Adjust Shoulder Belt Height so that Shoulder Belt rests on Shoulder.**	
9	**Secured WC19 Wheelchair:** **After the occupant and vehicle are secured, the occupant is ready for transportation.**	
10	**Secured Non WC19 Wheelchair:** **After the occupant and vehicle are secured, the occupant is ready for transportation.**	

TROUBLESHOOTING

PROBLEM	IMAGE	ANSWER
The webbing is twisted inside the retractor.		Press and hold Red Release Lever then pull J-Hook until webbing is straight.
The retractor(s) is (are) not releasing the webbing.		Press and hold Red Release Lever to release webbing from retractor.
The retractor(s) is (are) not working.		Call a Q'Straint® authorized dealer.
The retractor webbing is slacking.		Pull the J-Hook and slowly release to retract webbing or turn the Retractor Knob on either side of retractor to remove slack.
Can other hardware be used?		We recommend to use hardware with minimum Grade 8 which meets regulations and is coated for adequate protection against corrosion.

TROUBLESHOOTING

PROBLEM	IMAGE	ANSWER
When installing the L-Track how many holes should be drilled per track?		Standard track drilling pattern = holes every 4" (102mm).
Is it necessary to put sealant between floor anchorages and floor?		We recommend to use sealant between floor anchorages and floor.
Is it necessary to put sealant between floor and Backing Plate?		We recommend to use sealant between floor and Backing Plate.
After Shoulder Belt Retractor was installed on the floor, the webbing is getting stuck.		For proper webbing movement, mounted retractor **MUST** be at **0° (zero degree) rotation with respect to vertical access.**
After Shoulder Belt Retractor was installed on the wall, the webbing is getting stuck.		Shoulder Belt Retractor in mounted position **MUST be at 90° (degrees) horizontal** to ensure proper webbing movement.

MAINTENANCE AND CARE

Date _____

Vehicle Owner's Name _____

Vehicle Identification # _____ Serial # of QRT-360 _____

1. The following items should be inspected and serviced by an experienced and trained technician during the scheduled maintenance of the QRT-360 4-Point Wheelchair Securement System.

- ❑ Clean all debris from floor anchorages.
- ❑ Clean all QRT-360 retractors.
- ❑ Verify that all manual release systems are functioning properly.
- ❑ Verify that all QRT-360 retractors are working properly.
- ❑ Verify that occupant securement system (shoulder and lap belts) are working properly.
- ❑ Verify that all seatbelt systems are not worn or frayed. Replace as needed.
- ❑ Verify that occupant securement system is not damaged or corroded. Replace if needed.
- ❑ Verify that floor anchorages are not damaged or corroded. Replace if needed.
- ❑ Verify that all mounting bolts are tight.
- ❑ Inspect all webbing for fraying. Replace any that have frayed.
- ❑ Inspect entire system to make sure everything is working properly and replace anything that is needed.

2. Any deficiencies shall be noted below and rectified before the QRT-360 4-Point Wheelchair Securement System is released to the consumer for use.

3. If the repairing technician has any issues not covered by this document or is not clear on what corrective action needs to be taken, they MUST consult the nearest Q'Straint® office listed on the back page of this manual.

Deficiencies Noted: _____

_____

_____

Action Taken: _____

_____

_____

_____

Dealership: _____ Technician: _____

Q'STRAINT®

THINKING **BEYOND** SAFETY

www.qstraint.com

This manual contains current information at the time of printing. Q'Straint® reserves the right to modify systems, components and content without notice.

This manual was printed on 30% post-consumer stock using vegetable oil based inks and is 100% recyclable.

© 2014 Q'Straint®. All Rights Reserved. QRT™ is a registered trademark of Q'Straint®, Inc.

FOR TECHNICAL SUPPORT OR TO FIND YOUR NEAREST AUTHORIZED DEALER:

Q'Straint Europe
72-76 John Wilson Business Park
Whitstable, Kent, CT5 3QT
United Kingdom
Tel: +44 (0)1227 773035
Fax: +44 (0)1227 770035
Email: info@qstraint.co.uk

Q'Straint America
5553 Ravenswood Road, #110
Ft. Lauderdale, FL 33312
Tel: 800-987-9987
Fax: 954-986-0021
Email: qstraint@qstraint.com

Q'Straint Australia
Tramanco Pty Ltd.
21 Shoebury Street,
Rocklea, Australia, QLD. 4106
Tel: +61 7 3892 2311
Fax: +61 7 3892 1819
Email: info@tramanco.com.au

Q'Straint Canada
18-100 Sheldon Dr.
Cambridge, ON N1R 7S7
Tel: 1-800-987-9987
Email: qstraint@qstraint.com

Q5-1150-QRT360 Rev E