

## GENERAL INSTRUCTIONS FOR SEAT BELT INSTALLATION

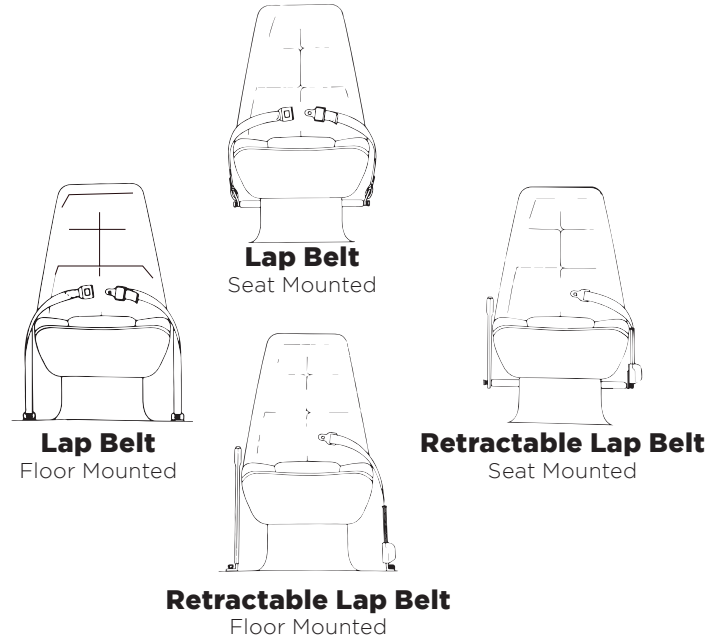
### Caution:

1. Use for single occupant restraint only
2. **Important:** Installer must be familiar with the federal standards governing the installation of seat belt assemblies. For your convenience, some of these standards are listed on the back of the instruction sheet.
  - Performance of the seat belt will be affected by the strength of the anchorage points. Anchorage strength must meet FMVSS 210 requirements and/or any other applicable standards and requirements for occupant restraints.
  - **Use only SAE Grade 5 or better, 7/16-20 UNF-2A or better fasteners (if metric, ISO grade 8.8 or higher). Use lock washers, lock nuts, or bolts with high strength thread locking compound.**
  - All hardware to be torqued to 35-50 ft.-lbs. (Must be metal to metal contact).
  - When restraining the occupant, the lap belt portion of any seat belt assembly should be positioned across hip bones and pulled downward at an angle no less than 30° and no more than 75° from the horizontal.
  - **The seat belt in this package are not universal installation, but have been manufacture to customer requirements, and must be installed in accordance with the customer specifications, all applicable federal, American Society of Agricultural Engineers (ASAE), and Society of Automotive Engineers (SAE) specifications. Review the information on reverse side and contact the appropriate agency for additional information. These seat belts are not to be used in any type of aircraft application. Seatbelt Solutions LLC. Disclaims responsibility for improper installation or use.**

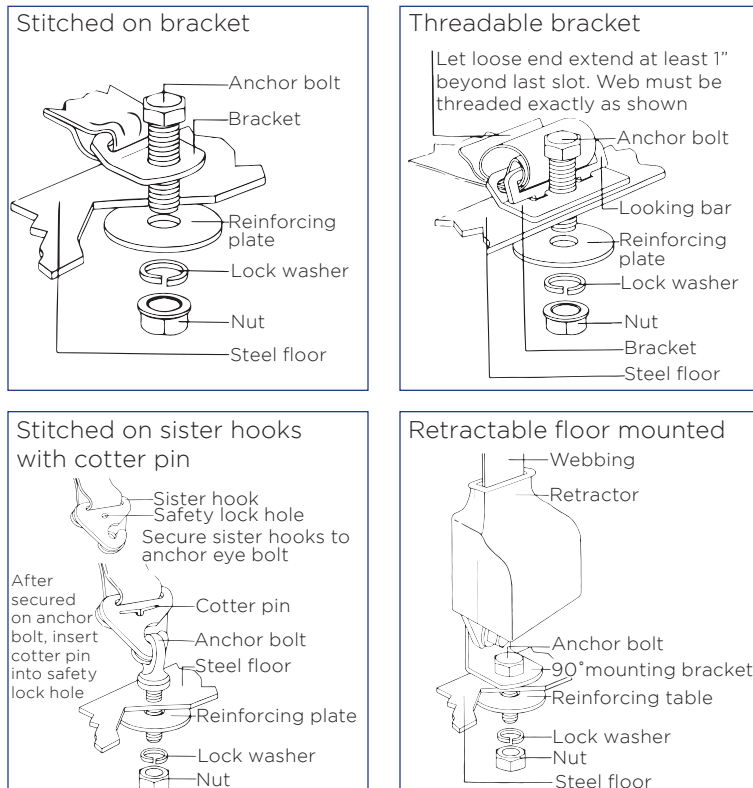


Each seat belt is to be used in a specific vehicle application and seating position. If the belt is used as a replacement, the specific vehicle and seating position will be identified on a separate sheet or tagged on the seat belt.

## SEAT BELT INSTALLATION GUIDE



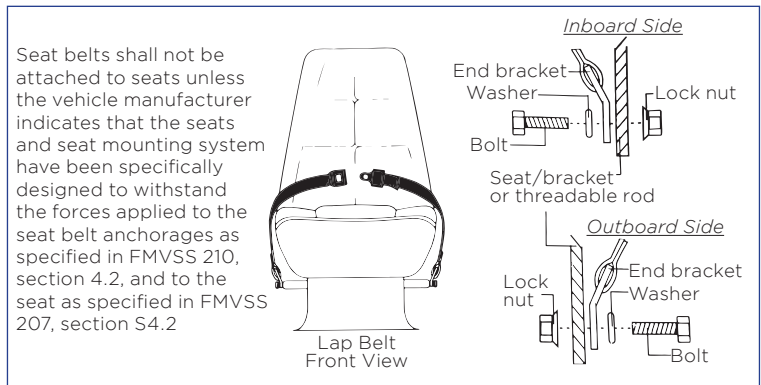
## FLOOR MOUNTED SEAT BELTS



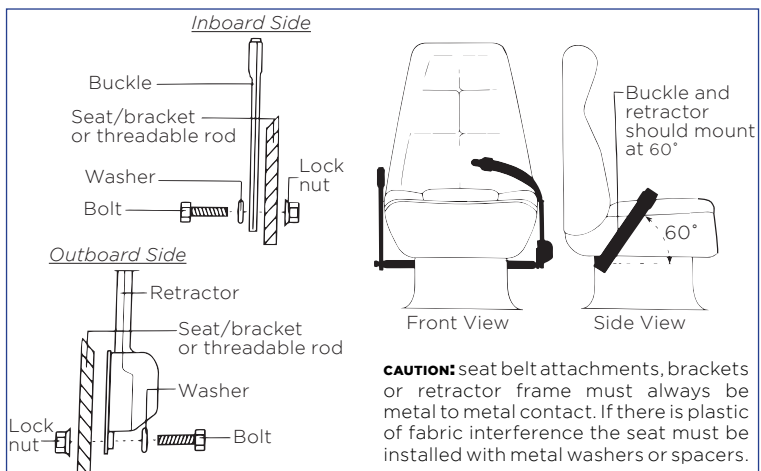
**CAUTION:** be sure cotter pin is install

**WARNING:** metal to metal contact is critical on attachment to vehicle structure at brackets and retractor mounting locations

## SEAT MOUNTING SEAT BELTS



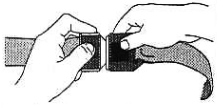
## RETRACTABLE LAP BELT



**CAUTION:** seat belt attachments, brackets or retractor frame must always be metal to metal contact. If there is plastic of fabric interference the seat must be installed with metal washers or spacers.

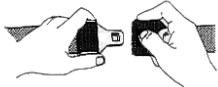
## HOW TO OPERATE BUCKLE

### Push button Buckle



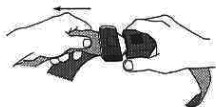
#### To fasten belt

Hold buckle in one hand, and the latch in other hand. Put latch into buckle. When buckle segments are properly engaged, a very positive snap will be heard. Give the buckle a quick pull to assure proper locking



#### To release belt

Holding buckle, depress button with thumb or finger, pulling latch segment at same time, and belt will disengage



#### To shorten belt

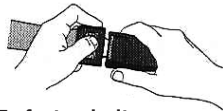
Pull the top webbing strap directly away from the adjustable latch



#### To lengthen belt

Turn the adjustable latch at right angle to the webbing and pull away from the latch using the lower webbing strap

### EndRelease Buckle



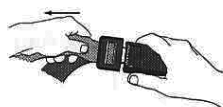
#### To fasten belt

Hold buckle in one hand, and the latch in other hand. Put latch into buckle. When buckle segments are properly engaged, a very positive snap will be heard. Give the buckle a quick pull to assure proper locking



#### To release belt

Depress button with thumb or finger. Latch will eject from buckle



#### To shorten belt

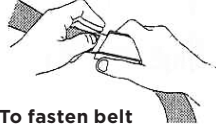
Pull the top webbing strap directly away from the adjustable latch



#### To lengthen belt

Turn the adjustable latch at right angle to the webbing and pull away from the latch using the lower webbing strap

### Lift Lever Buckle



#### To fasten belt

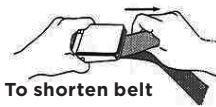
Hold buckle in one hand, and the latch in other hand. Put latch into buckle. When buckle segments are properly engaged, a very positive snap will be heard. Give the buckle a quick pull to assure proper locking



#### To release belt

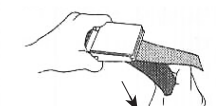
Lift top buckle cover up, pulling latch away from buckle and the belt will disengage

### Buckle side adjustment



#### To shorten belt

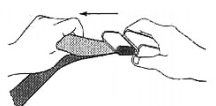
Pull the top webbing strap directly away from the buckle



#### To lengthen belt

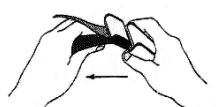
Turn the adjustable latch at right angle to the webbing and pull away from the latch using the lower webbing strap

### Latch side adjustment



#### To shorten

Pull the top webbing strap directly away from the adjustable latch



#### To lengthen

Turn the adjustable latch at right angle to the webbing and pull away from the latch using the lower webbing strap

## WEARER'S GUIDE AND MAINTENANCE INSTRUCTIONS

### Important

Seat belts should be worn whenever vehicle is in operation and may only be used by a single occupant. DO NOT use a seat belt to restrain child seated on the seat belt occupant's lap.

**How to fasten and release buckle** (see opposite page)

### How to adjust seat belt

*Manually adjustable seat belts:* (see opposite page)

**Automatic locking retractor seat belts:** to fasten, pull the latch steadily until it reaches the buckle. Put latch into buckle until positive snap is heard. Ensure that there are no twists in the seat belt webbing. Allow the retractor to take up any slack in the webbing. Give a sharp pull on the webbing to ensure that the retractor is locked. If the retractor locks before the latch reaches the buckle, allow the webbing to be fully retracted and repeat the above process.

### Cleaning

Sponge the webbing clean with mild soap and water. DO NOT use bleach, dye or household detergents.

### Maintenance and inspection

Seat belt webbing should not be allowed to rub against sharp surfaces. Seat belts exposed to extreme conditions or climates must be inspected frequently and thoroughly. Seat belts which have been cut, or frayed, which malfunction in any way, or which were installed on a vehicle subsequently involved in an accident must be replaced. Always replace the entire seat belt system including belt, buckle, retractor and mounting hardware.

### Warnings

- Failure to properly inspect and maintain seat belt can cause serious injury or loss of life.
- It is critical that any time a vehicle is involved in an accident, the entire seat belt system must be replaced in the vehicle.
- A seat belt should be considered to have a finite life and must be replaced as needed throughout the life of the vehicle. Belt must be inspected for needed maintenance every 20,000 miles or more often if exposed to severe environmental or vocational conditions.

## APPLICATION NOTES

### Truck - Buses - RV - Automobiles

The seat belts in this package must be installed in accordance with specifications outlined in FMVSS 208-209-210 as amended, as well as in accordance with SAE J800.

### Construction Equipment

The seat belts in this package must be installed in accordance with specifications outlined in SAE J386

### Agricultural Equipment

The seat belts in this package must be installed in accordance with specifications outlined in ASAE S383.1

### Other Applications

The seat belts in this package must be installed in accordance with customer's design and specifications, and must be installed in accordance with applicable vehicle safety standards.

### Specification Sources

- FMVSS 208, FMVSS 209, FMVSS 210.

Obtained from National Highway Traffic Safety Administration, Crash worthiness Division, 400 Seventh Street, S.W., Washington, D.C. 20590.

- SAE J386, SAE J800.

Obtained from Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096.

- ASAE S383.1

Obtained from American Society of Agricultural Engineers, 2950 Niles Road, St. Joseph, MI 49085

## INSTALLATION QUESTIONS

If you have any installation questions, or if we may help, call us at 866-904-(BELT) 2558 or 561-747-7529



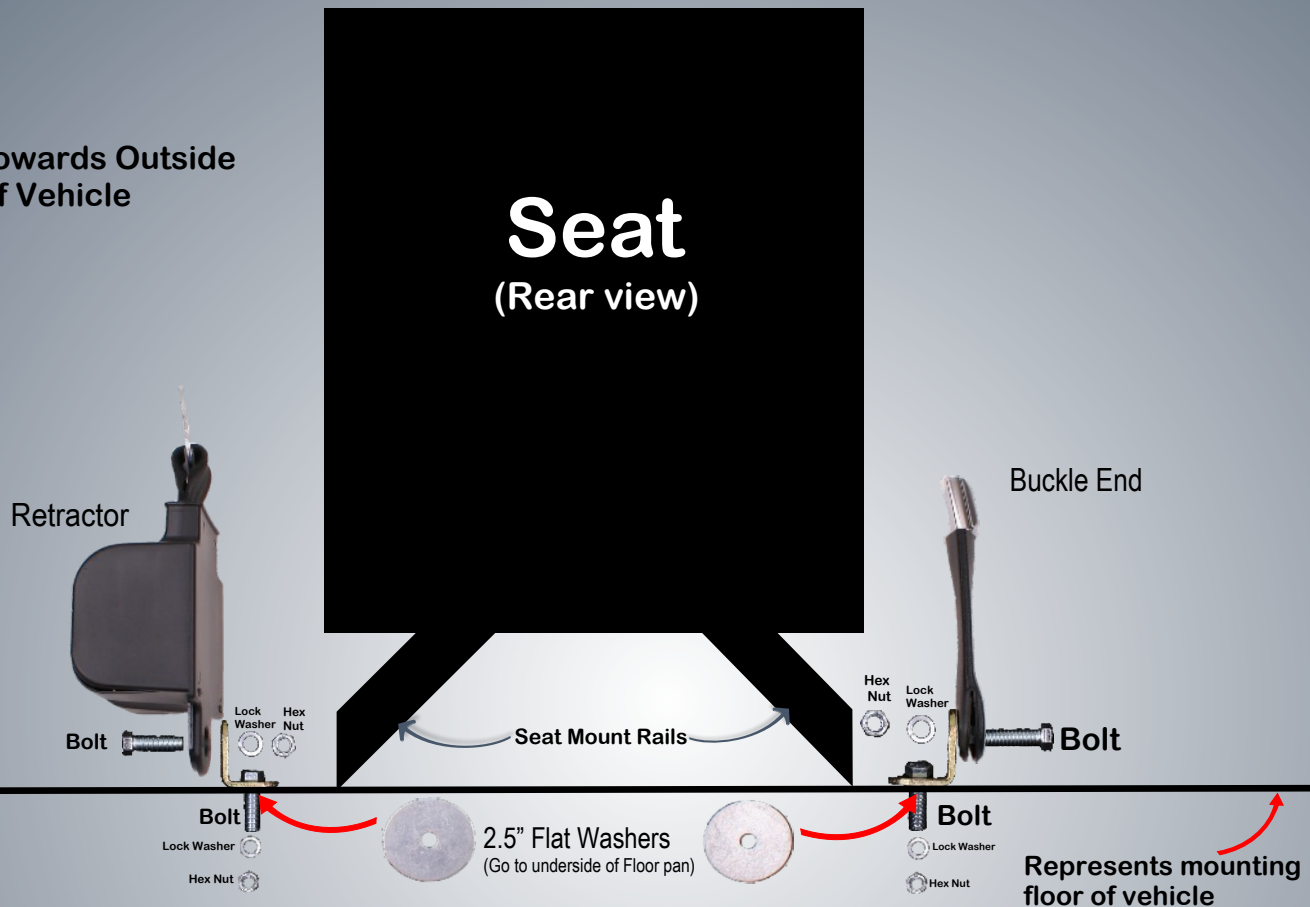
15835 Corporate Rd N., Jupiter, FL 33478

866-904-(BELT) 2558 or 561-747-7529

[www.seatbeltsolutions.com](http://www.seatbeltsolutions.com)

# Seatbelt Solutions

## 2 Point Retractable Lap Belt Instructions



### WHERE NO MOUNTING POINTS EXIST:

**IMPORTANT:** When available, be sure to use the vehicle manufacturer's mounting points to attach belts. When you use the manufacturer's threaded floor fittings, it is **IMPORTANT** that all full threads be engaged to obtain the Ultimate strength of the anchorage. Reuse factory mounting bolts or use 7/16" grade 5 or higher bolts.

### INSTALLATION INSTRUCTIONS:

1. Mount the short side of the belt **INBOARD**, toward the center of the vehicle.
2. Avoid rough or sharp edges when choosing a belt path.
3. If the seat is adjustable, move to the rearmost position
4. Mark the floor to mount down and behind the seat to assure that the lap belt is pulling downward and rearward at Approximately a 70 degree angle.
5. Space the attachment points 15" to 25" apart so that the lap belt forms a "U" shaped loop when in use. Never attach both ends of the same lap belt to the same anchorage or attachment point.
6. Carefully drill 1/2" holes being careful to avoid damaging exhaust systems, brake or fuel lines. Always use the reinforcement plates (2.5" flat washers) underneath the floor. Examine and reinforce any weakened area of the floor pan.

### MOUNTING:

1. Mounting hardware to the floor should always have metal-to-metal contact. You should avoid carpet, plastic or any other material between the fastener components and the floor which could tend to loosen over time.
2. All bolts must have either a lock-nut, lock washer or apply a thread locking compound for security.
3. Bolts used for mounting seatbelts should be a minimum size 7/16" diameter, Grade 5 product
4. Anchor points for belts must meet the strength load requirements of FMVSS 210. When replacing belts, always use the anchorages provided by the vehicle, or seat manufacturer
5. Do not connect both ends of this belt to the same, single mounting point. Mounted ends of the belt should form a "U" shape.



With Domestic and Foreign Parts

15835 Corporate Road N Jupiter, FL 33478  
866-904-BELT (2358) Fax (561) 747-7529 orders@seatbeltsolutions.com