

# INSTALLATION OVERVIEW

**FAA/STC SA02492CH**  
**PIPER PA24 / 30 / 39 Series Aircraft**  
**Three Point Torso Restraint System**  
PA-24, PA-24-250, PA-24-260, PA-24-400, PA-30, PA39



## **Model Designations**

Model Number	Product Description
PA24-114FS	Three-point restraint system, TSO-C114, Fixed torso strap
PA24-114IR	Three-point restraint system, TSO-C114, Inertial reel torso strap

## **Product Description**

### Model PA24-114FS

Accommodates the installation of a vendor supplied, FAA approved, TSO-C114 restraint system, at each pilot position. The restraint system incorporates a traditional pelvic restraint strap (lap belt) provided with the provision to attach, as needed, a single diagonal torso restraint strap.

The attachment points for the pelvic restraint straps (lap belt) are continued in use.

The attachment of the fixed end of the torso restraint strap is accomplished by the addition of a cabin roof support and mounting hard point to the fuselage structure adjacent to each pilot position and centered at fuselage station 112.0.

## Model PA24-114IR

Accommodates the installation of a vendor supplied, FAA approved, TSO-C114 restraint system, at each pilot position. The restraint system incorporates a traditional pelvic restraint strap (lap belt) provided with the provision to attach, as needed, a single diagonal torso restraint strap. The upper end of the torso restraint strap is equipped with an inertial reel assembly, which is hard mounted to the airframe.

The attachment points for the pelvic restraint strap (lap belt) are continued in use.

The attachment of the fixed end of the torso restraint strap is accomplished by the addition of a cabin roof support and mounting hard point to the fuselage structure adjacent to each pilot position centered at fuselage station 112.

### **Airframe Qualification**

Aircraft that have a standard airworthiness certificate are eligible for this installation.

The airworthiness certificate must be issued in the Normal category.

Inspect the aircraft and its records to assure that any change in structure or window installation does not preclude the installation of the Model PA24-114FS or Model PA24-

### **Installation**

The installation of the torso restraint upper mount is centered at fuselage station 112.0, adjacent to each pilot position.

It is necessary to remove the passenger assist strap, interior trim and relocate the headliner to the extent necessary to gain access to the cabin roof, back to the luggage compartment frame.

Note – Except for being reversed - The left and right installations are identical.

The installation requires the addition of a cabin roof support angle.

In addition, a two ply aluminum mount is installed at fuselage station 112.00.

