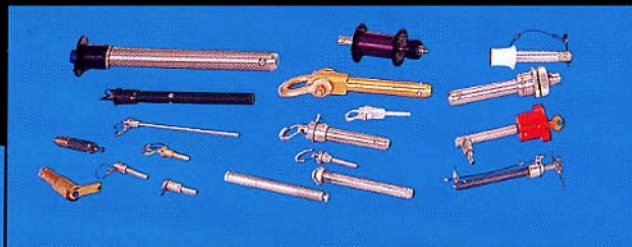


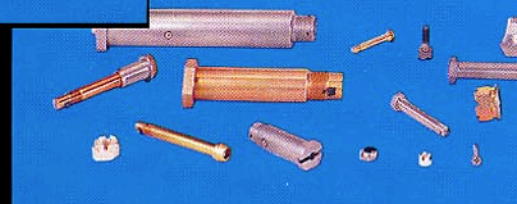
AVIBANK'S LINE OF PRODUCTS

**ADJUSTABLE
DIAMETER
FASTENERS**



**QUICK RELEASE PINS
& ACCESSORIES**

**SELF RETAINING BOLTS
AND ACCESSORIES**



HOOK LATCHES PAGE 4

A wide variety of configurations ranging from flat to contoured, to protruding to low profile with variable load requirement, are available. Adjustable hooks or keepers compensate for wear.

FLUSH & PUSH BUTTON LATCHES PAGE 5

These latches are available in many styles which operate with a push, pull or slide trigger release. Flushness with the parent material prevents snagging or drag.

SHEAR PIN & SLIDE BOLT LATCHES PAGE 6

These latches are designed to carry shear type loads. They can be operated by sliding the pin or bolt in or out of the load-carrying area or receptacle.

PAWL LATCHES PAGE 7

These latches use a cam action to not only lock a door but also to take-up and compress the door gasket preventing electromagnetic interference.

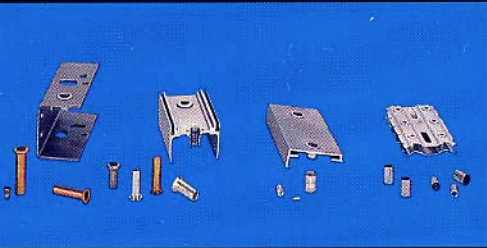
CONTAINER, OVER-THE-CENTER & V-BAND LATCHES PAGE 7

These latches are available in various styles for cases, boxes and crates. The V-band latches incorporate folding handles that allow for a mechanical advantage during closing.

PRESSURE RELIEF LATCHES PAGE 8

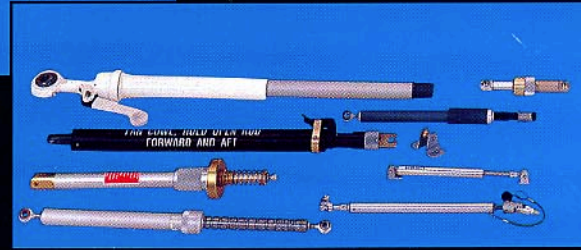
These latches are normally used on engine cowls. They automatically release under a pre-determined load to release pressure on the cowlings.

THREADED INSERTS



STRUCTURAL PANEL FASTENERS

STRUTS/HOLD-OPEN RODS



OVERHEAD BAGGAGE RACK LATCHES PAGE 8

These latches are used on commercial planes to open and close baggage compartments. Various materials, including plastic, are available.

FOLDING HANDLES PAGE 9

These handles are for electronic boxes and drawers. They fold out of the way after installation. They are also used as a carrying handle when the box or drawer is removed.

CHASSIS LATCHES & KEEPERS PAGE 9

These latches are used on electronic doors, drawers and black boxes. They combine the hold-down feature with the need to have a carrying handle. Some can be removed during flight. Keepers are also available.

HINGES & INSPECTION PLATES PAGE 10

Gooseneck hinges open the radome or door out of the way. Various style spring-loaded plates are available to allow access to areas that require inspection.

ROTARY LATCHES PAGE 10

Flush mounted rotary latches are usually actuated with a tool. The internal eccentric cam design allows tension take-up. A warning flag indicates whether the latch is locked or unlocked.

KEEPERS & EYEBOLTS PAGE 11

Adjustable or non-adjustable keepers or eyebolts are mated with a hook or a rotary latch. These keepers are adjusted to apply the correct preload.

SEE PAGES 12-14 FOR APPLICATION SHEETS

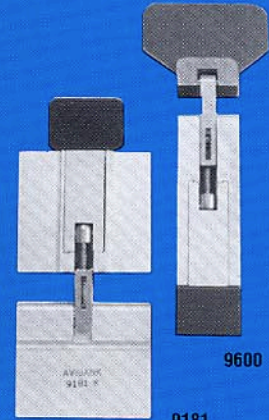
HOOK LATCHES



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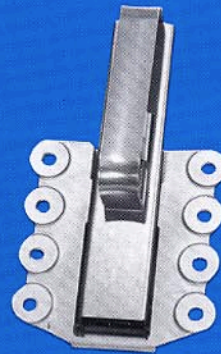


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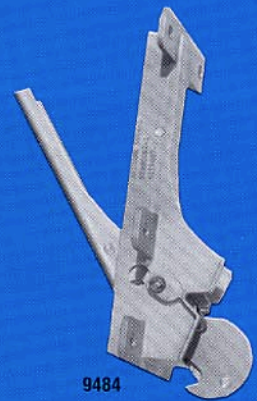
9181

- ◆ FLAT OR CONTOURED CONFIGURATIONS
- ◆ ADJUSTABLE HOOKS TO COMPENSATE FOR WEAR AND ADJUST LATCH PRELOAD
- ◆ STANDARD DESIGNS TO WITHSTAND UP TO 15,000 LBS. ULTIMATE TENSION
- ◆ HANDLE OPENS FREELY APPROXIMATELY 15° TO MAKE IT EASY TO GRIP AND OPEN WITHOUT USING A TOOL
- ◆ SOME LATCHES HAVE A SLOT FOR A SCREW DRIVER TO OPERATE THE HANDLE
- ◆ LATCHES HAVE A TRIGGER AS A SECONDARY LOCKING FEATURE IN ADDITION TO THE PRIMARY OVER-THE-CENTER HOOK MECHANISM
- ◆ TRIGGER HAS DOUBLE-TORSION SPRING AS A FAIL-SAFE FEATURE
- ◆ LOW PROFILE LATCHES WITH HIGH TENSION LOAD OVER 20,000 LBS. ARE ALSO AVAILABLE
- ◆ SOME LATCHES HAVE SECONDARY SAFETY FEATURES THAT ALLOW THE HANDLE TO BE CLOSED ONLY WHEN THE LATCH IS ENGAGED WITH MATING KEEPER
- ◆ EASY IDENTIFICATION OF UNLATCHED CONDITION

SEE PAGE 12 FOR APPLICATION DESIGN FORM



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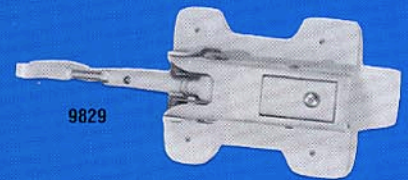


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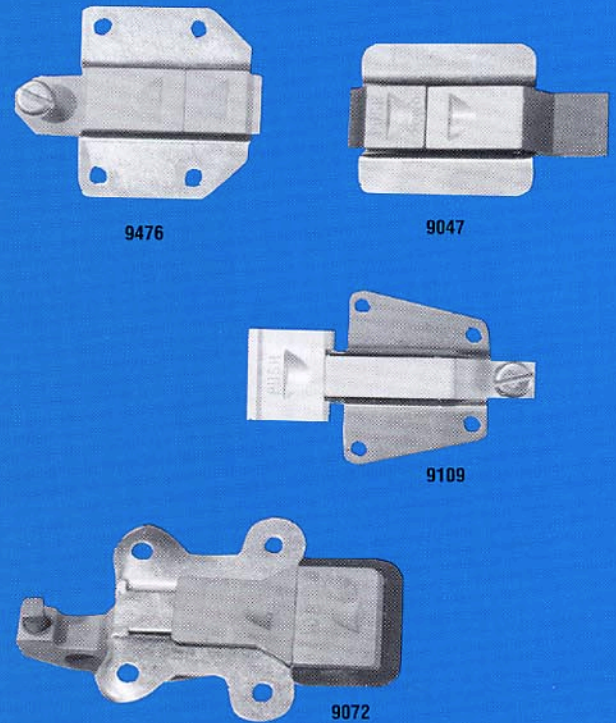
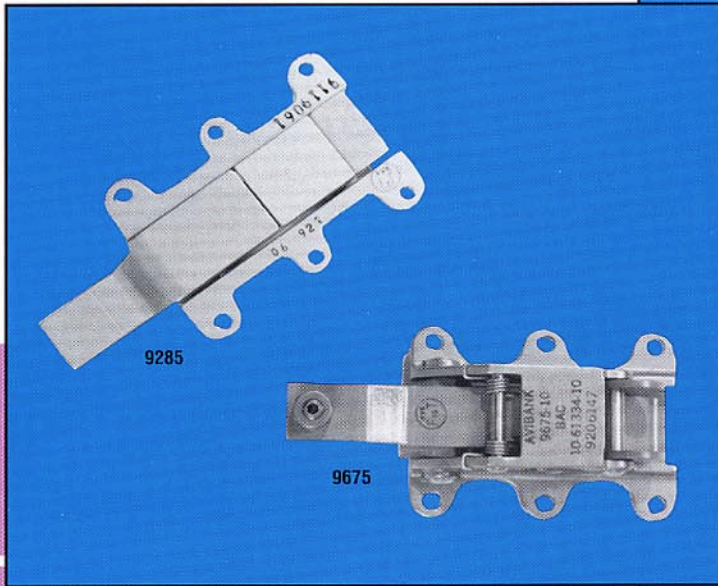


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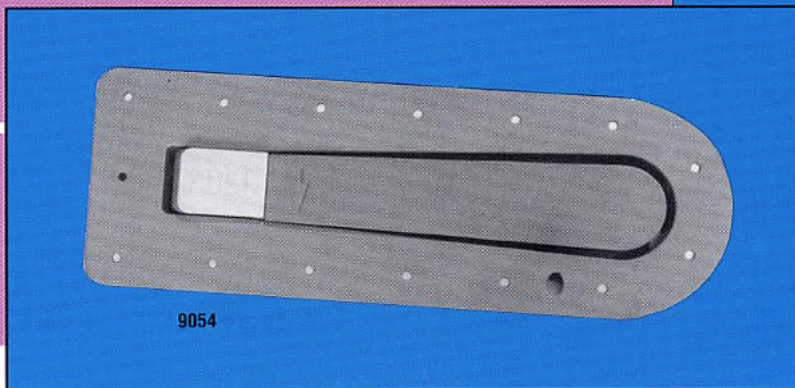
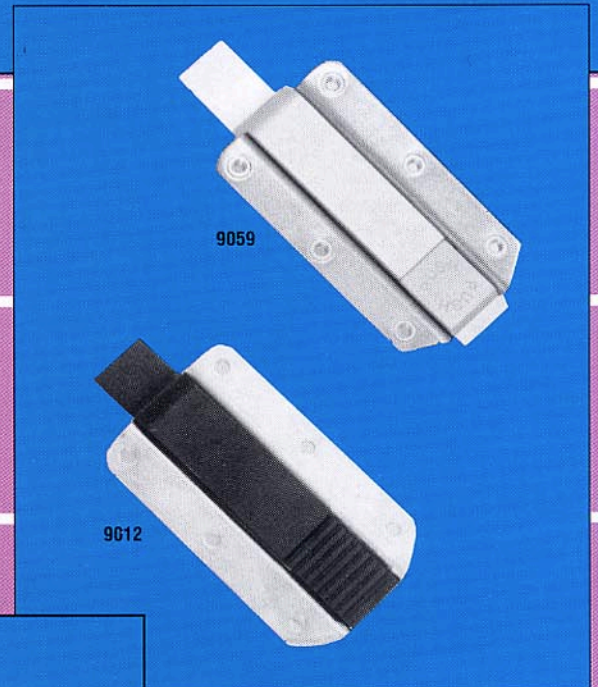
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FLUSH AND PUSH BUTTON LATCHES

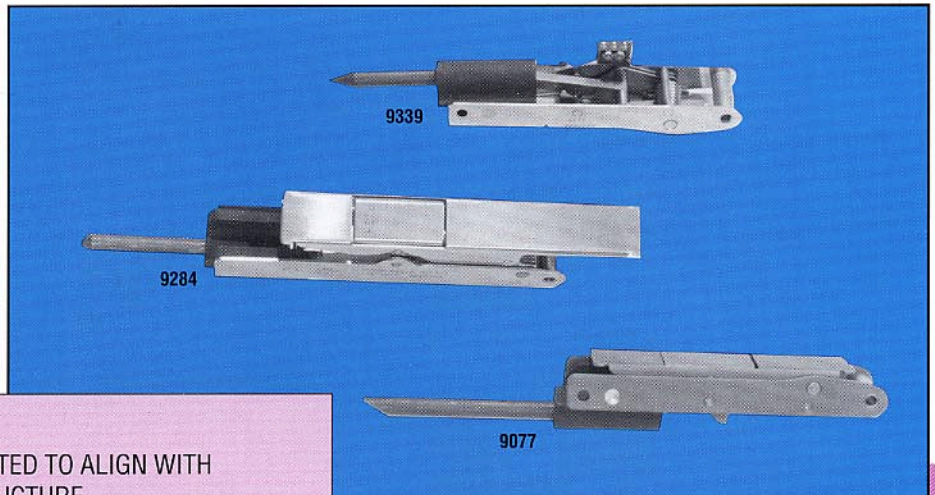


- ◆ CONTOURED FOR FLUSH FIT
- ◆ EASY-TO-USE LEVER ACTIONS
- ◆ EASY IDENTIFICATION OF UNLATCHED CONDITION
- ◆ MICRO SWITCHES CAN BE ADDED
- ◆ BOLT OFFSET CAN BE ADJUSTED FOR DIFFERENT PANEL THICKNESS
- ◆ BOLT HAS DOUBLE TORSION SPRING AS A FAIL-SAFE FEATURE
- ◆ MANY COMBINATIONS OF BOLT & TRIGGER OFFSETS ARE AVAILABLE

SEE PAGE 12 FOR APPLICATION DESIGN FORM

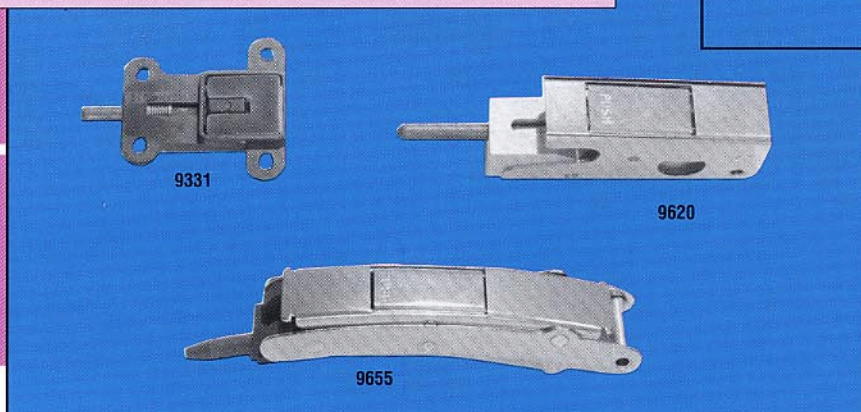
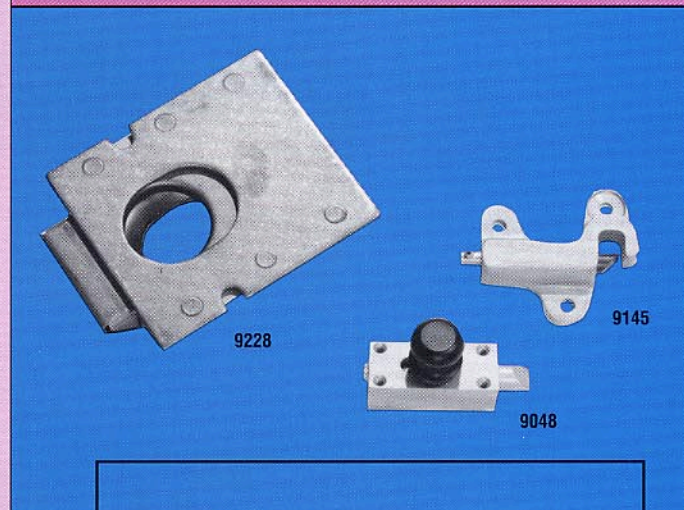


SHEAR PIN AND SLIDE BOLT LATCHES



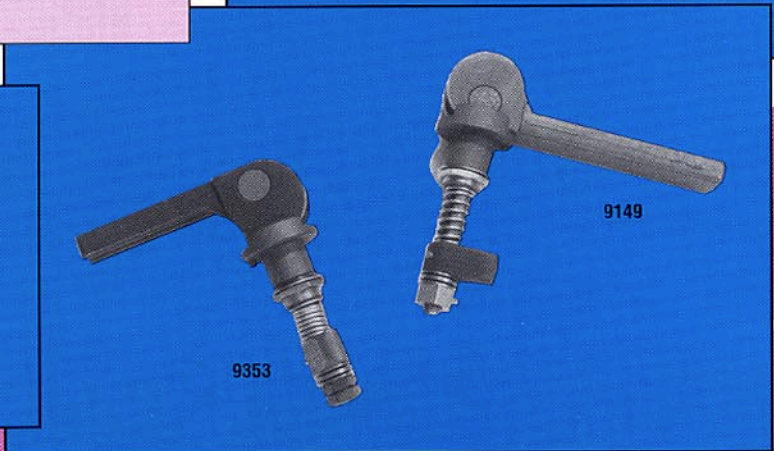
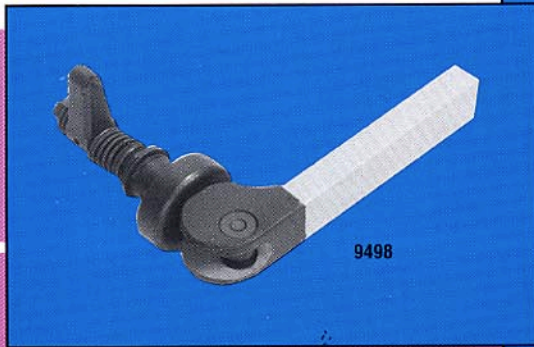
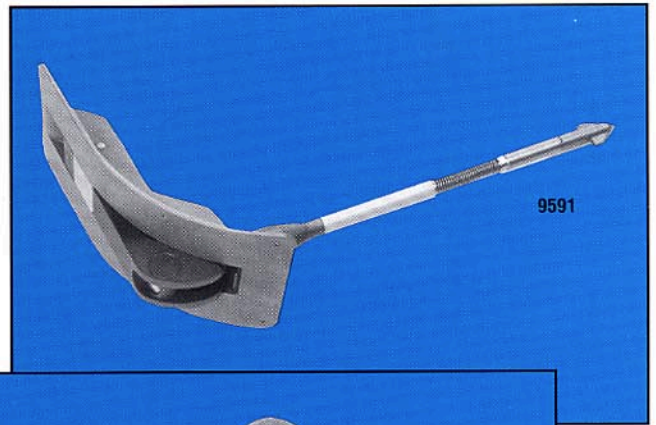
- ◆ PIN ANGLE CAN BE ADJUSTED TO ALIGN WITH MATING HOLE IN THE STRUCTURE
- ◆ HANDLE OPENS FREELY 15° FOR EASY ACCESS FOR UNLOCKING
- ◆ LATCH HAS A TRIGGER AS A SECONDARY LOCKING FEATURE
- ◆ TRIGGER HAS DOUBLE TORSION SPRING AS A FAIL-SAFE FEATURE
- ◆ MICRO SWITCHES CAN BE ADDED AS A VISUAL INDICATOR THAT THE LATCH IS UNLOCKED OR LOCKED
- ◆ ON LARGE PANELS, SHEAR PIN LATCHES ARE USUALLY USED IN CONJUNCTION WITH HOOK LATCHES
- ◆ PIN PROVIDES ADDED STRENGTH IN SHEAR APPLICATIONS
- ◆ TAPERED PIN ALLOWS EASY ALIGNMENT WITH MATING HOLE
- ◆ A VISIBLE PAINTED HANDLE INDICATES WHEN LATCH IS UNLOCKED

SEE PAGE 13 FOR APPLICATION DESIGN FORM



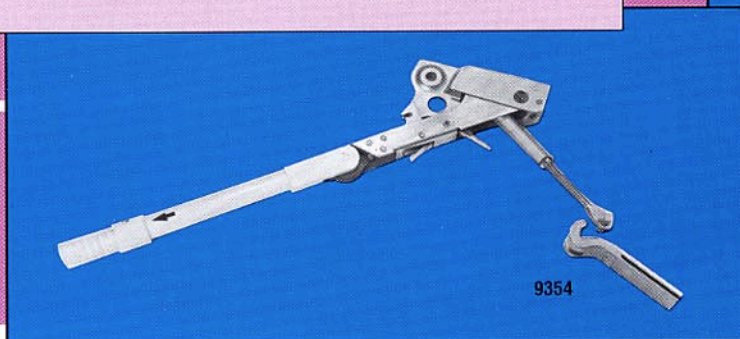
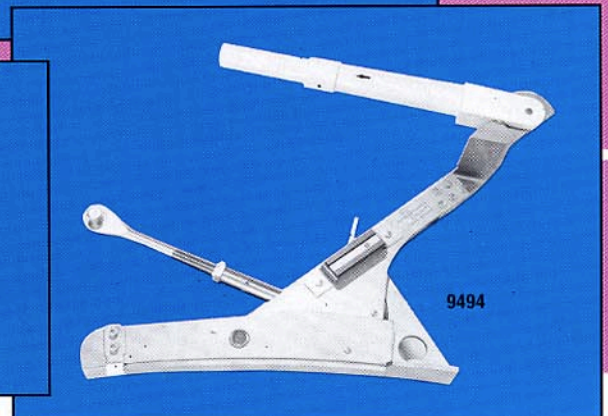
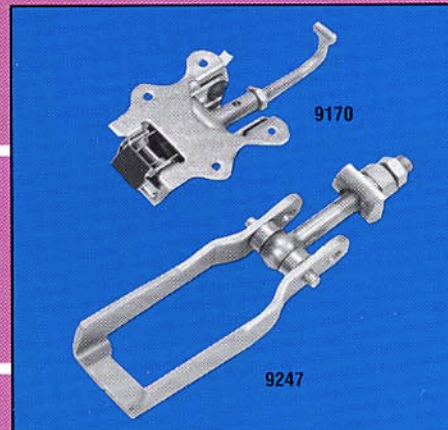
PAWL LATCHES

- ◆ QUICK ENGAGEMENT AND RELEASE WITH ROTATING PAWL
- ◆ PAWL TURNS AND DRAWS UP THE PANEL/DOOR
- ◆ TAKE-UP COMPRESSES THE DOOR GASKET
- ◆ PROVIDE ADDED PROTECTION AGAINST EMI/RFI BY TAKE-UP AGAINST CABINET STRUCTURE



CONTAINER, OVER-THE-CENTER & V-BAND LATCHES

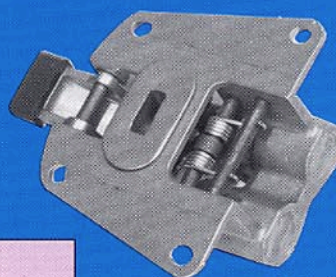
- ◆ PRODUCE HIGH PRELOAD WITH LONG HANDLE LEVERAGE
- ◆ TRIGGER HAS DOUBLE TORSION SPRING AS A FAIL-SAFE FEATURE
- ◆ T-BOLT IS ADJUSTABLE FOR PROPER PRELOAD OR ENGAGEMENT
- ◆ SECONDARY SAFETY FEATURE ALLOWS THE HANDLE TO CLOSE ONLY WHEN THE LATCH IS ENGAGED WITH MATING KEEPER



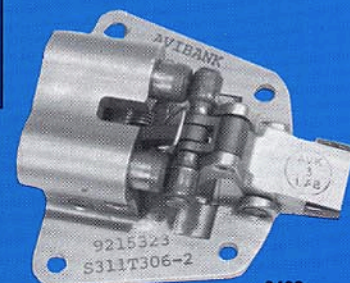
PRESSURE RELIEF LATCHES

- ◆ ACTUATE WITH A STANDARD SCREW DRIVER
- ◆ PRE-SET LOADS AT THE FACTORY TO HANDLE PRECISE LOADS WITHIN $\pm 10\%$ OF LOAD TOLERANCE
- ◆ LATCHES ALLOW BLEED-OFF OF EXCESSIVE PRESSURES TO PREVENT DAMAGE TO VITAL INTERNAL HARDWARE

SEE PAGE 13 FOR APPLICATION DESIGN FORM



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OVERHEAD BAGGAGE-RACK LATCHES

- ◆ SOME LATCHES HAVE INTERLOCK SYSTEM WITH HOOK DESIGN TO WITHSTAND HIGH LOADS AND VIBRATION
- ◆ PROVIDES PASSENGERS A STORAGE COMPARTMENT THAT IS EASY TO OPEN AND SECURES TIGHTLY TO PREVENT OPENING DURING FLIGHTS
- ◆ EASY ATTACHMENT OF BAGGAGE BIN TO BULKHEAD



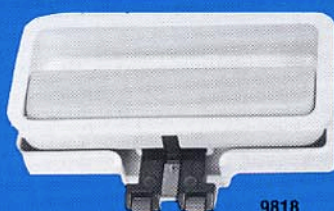
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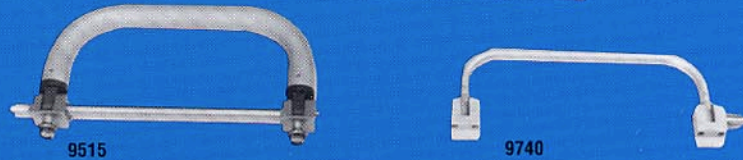
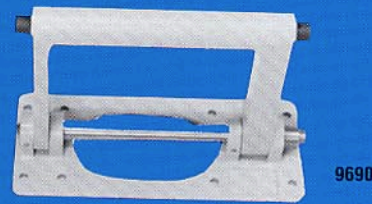


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FOLDING HANDLES

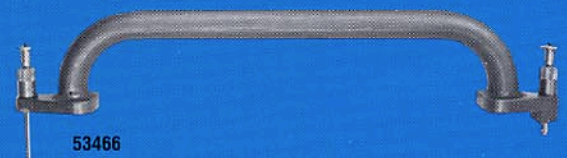
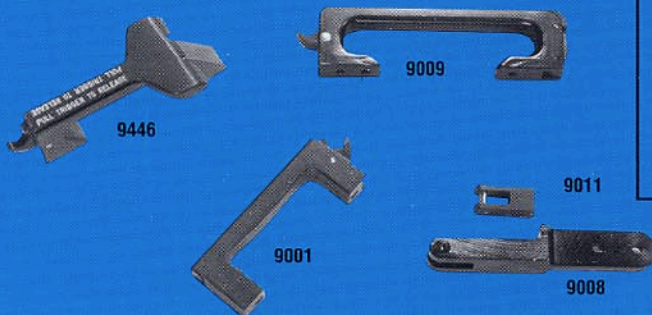
- ◆ LIGHTWEIGHT DESIGNS OF ALUMINUM AND TITANIUM MATERIAL
- ◆ UP TO 3 POSITIVE HANDLE LOCKING POSITIONS IF REQUIRED
- ◆ WITHSTAND HIGH SIDE LOAD TO THE HANDLE IN CASE OF MISHANDLING OR ACCIDENT
- ◆ HANDLE FOLDS AWAY TO PREVENT SNAGGING OR INADVERTENT RELEASE
- ◆ HANDLE IS USED FOR CARRYING ELECTRONIC BOX WHEN REMOVED FROM THE APPLICATION

SEE PAGE 14 FOR APPLICATION DESIGN FORM



CHASSIS LATCHES AND KEEPERS

- ◆ THESE LATCHES COMBINE THE FOLD-DOWN FEATURE WITH THE NEED TO HAVE A CARRYING HANDLE
- ◆ LIGHTWEIGHT ALUMINUM DESIGN LATCH
- ◆ KEEPERS WITH DIFFERENT COMBINATION OF LOAD AND COMPENSATING TRAVEL ARE AVAILABLE

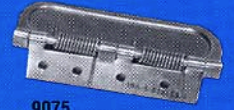


HINGES AND INSPECTION PLATES

- ◆ PROVIDES ACCESSIBILITY TO AREAS WHERE INSPECTION IS REQUIRED
- ◆ TRIGGER-LOCKED HINGES ALLOW DOORS AND PANELS TO SWING COMPLETELY OUT OF THE WAY TO ALLOW WORK IN COMPARTMENT



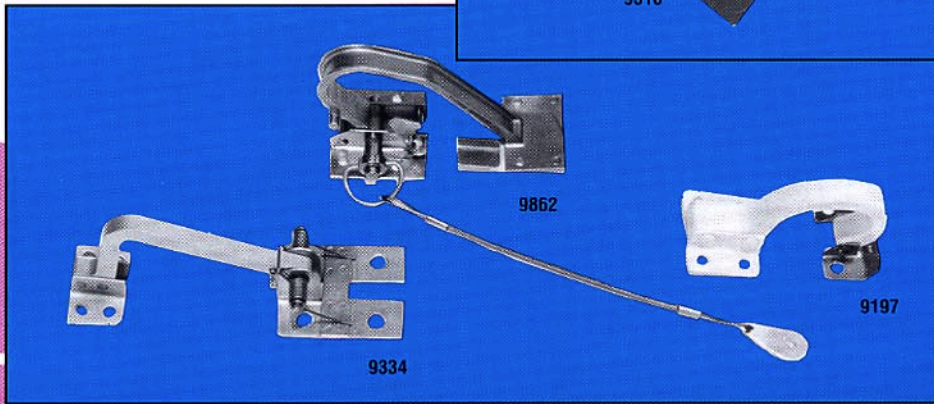
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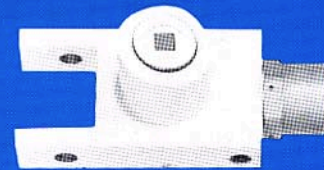
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ROTARY LATCHES

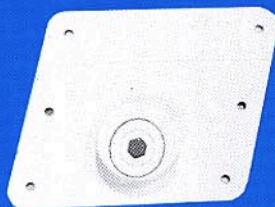
- ◆ SMALL CUT-OUT HOLE IN THE PANEL PROVIDES GOOD FLUSHNESS
- ◆ PAINTED VISUAL INDICATOR WILL POP UP WHEN LATCH IS NOT ENGAGED
- ◆ FLUSH MOUNTED
- ◆ ACTIVATED WITH A STANDARD TOOL
- ◆ PROVIDES TENSION TAKE-UP WHEN CLOSED
- ◆ NO SPECIAL TOOLS REQUIRED FOR PANEL PREPARATION



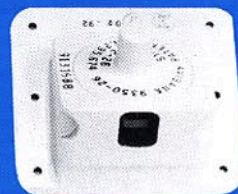
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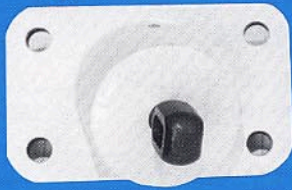
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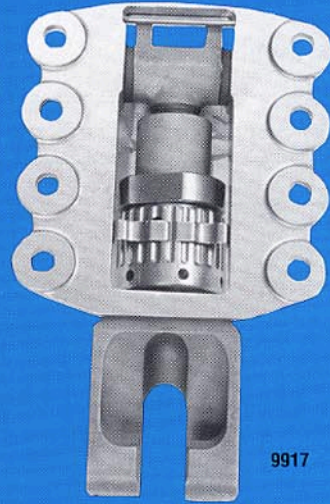
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KEEPERS AND EYEBOLTS

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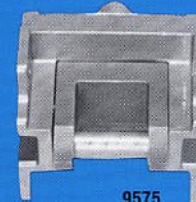
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- ◆ ADJUSTABLE KEEPER CAN BE ADJUSTED TO PROVIDE PROPER TENSION LOAD TO THE LATCH WHILE IT IS STILL ENGAGED
- ◆ SLOTTED HOLES IN MOUNTING PLATE ALLOW ADJUSTMENT
- ◆ AVAILABLE IN ADJUSTABLE OR NON-ADJUSTABLE TYPES
- ◆ ADJUSTABLE TYPES ARE FOR APPLYING CORRECT PRELOAD TO LATCHES
- ◆ SPECIAL KEEPER HOUSINGS ARE AVAILABLE FOR MOUNTING

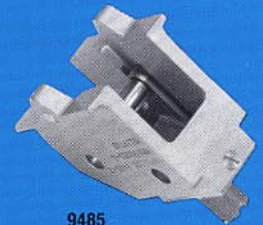
SEE PAGE 14 FOR APPLICATION DESIGN FORM



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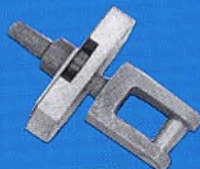
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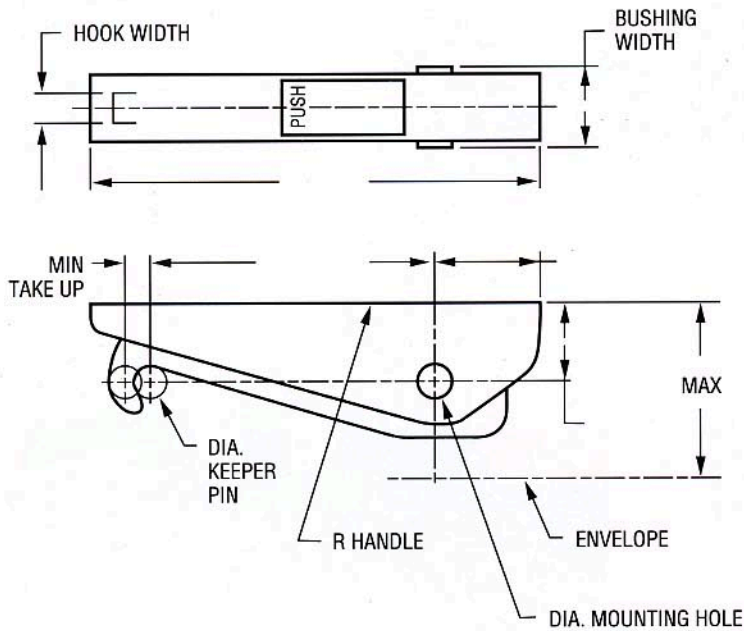
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HOOK LATCHES (SEE PAGE 4)

CONTROL ENVELOPE DIMENSIONS



DATA

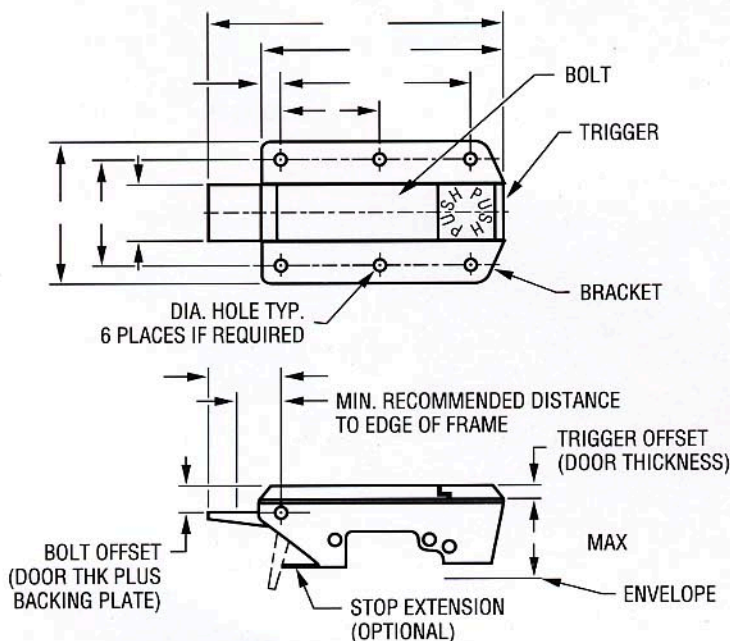
1. ULTIMATE LOAD _____ LBS.
2. LIMIT LOAD _____ LBS.
3. PRELOAD _____ LBS.
4. FATIGUE LIFE _____ CYCLES
_____ LBS. MIN. _____ LBS. MAX.
5. OPERATING TEMPERATURE _____ °F
6. MATERIAL _____
7. FINISH _____

COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____
 PHONE NO. _____
 FAX NO. _____

FLUSH LATCHES (SEE PAGE 5)

CONTROL ENVELOPE DIMENSIONS



DATA

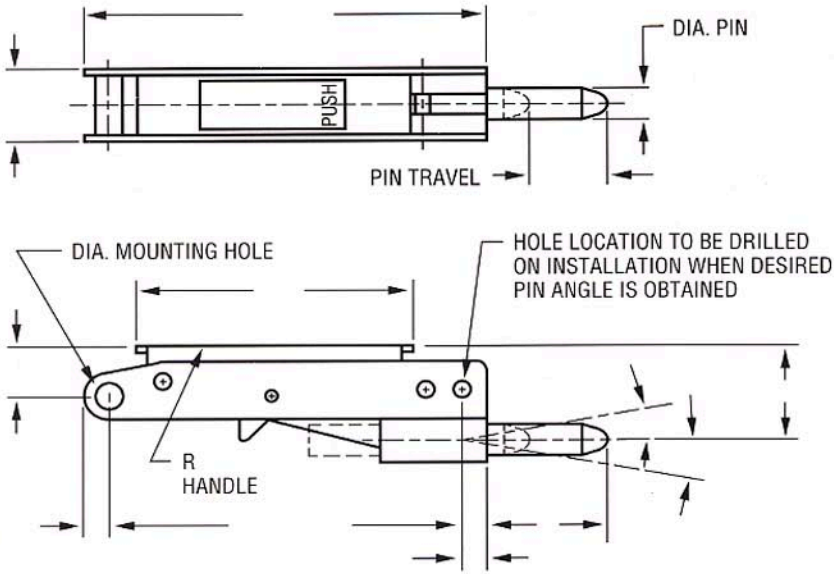
1. ULTIMATE LOAD _____ LBS.
2. OPERATING TEMPERATURE _____ °F
3. MATERIAL _____
4. FINISH _____

COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____
 PHONE NO. _____
 FAX NO. _____

SHEAR PIN LATCHES (SEE PAGE 6)

CONTROL ENVELOPE DIMENSIONS



DATA

1. DOUBLE SHEAR LOAD _____ LBS.
SINGLE SHEAR LOAD _____ LBS.
2. OPERATING TEMPERATURE _____ °F
6. MATERIAL _____
7. FINISH _____

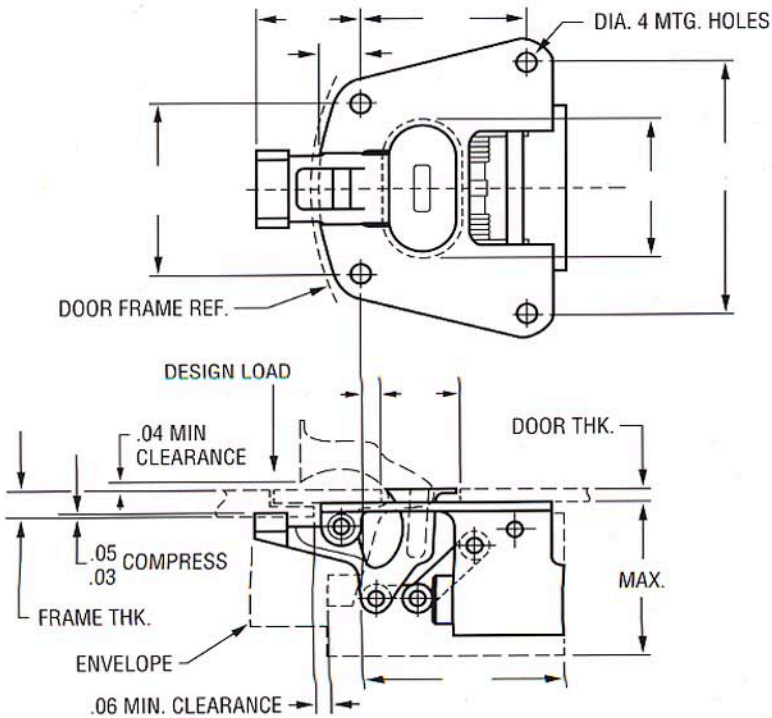
COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____

 PHONE NO. _____
 FAX NO. _____

PRESSURE RELIEF LATCHES (SEE PAGE 8)

CONTROL ENVELOPE DIMENSIONS



DATA

1. DESIGN LOAD _____ LBS.
± _____ LBS.
2. OPERATING TEMPERATURE _____ °F
3. MATERIAL _____
4. FINISH _____

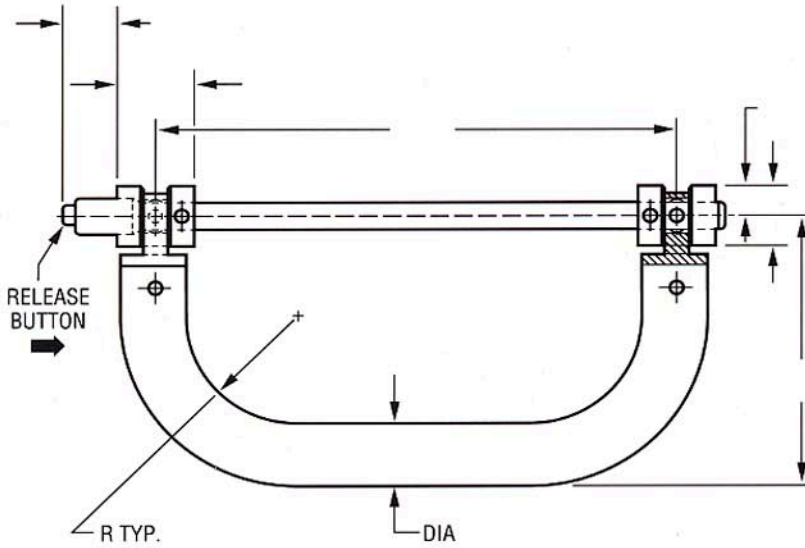
COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____

 PHONE NO. _____
 FAX NO. _____

FOLDING HANDLES (SEE PAGE 9)

CONTROL ENVELOPE DIMENSIONS



DATA

1. HANDLE TO WITHSTAND SIDE LOAD OF _____ LBS.
2. OPERATING TEMPERATURE _____ °F
3. MATERIAL _____
4. FINISH _____

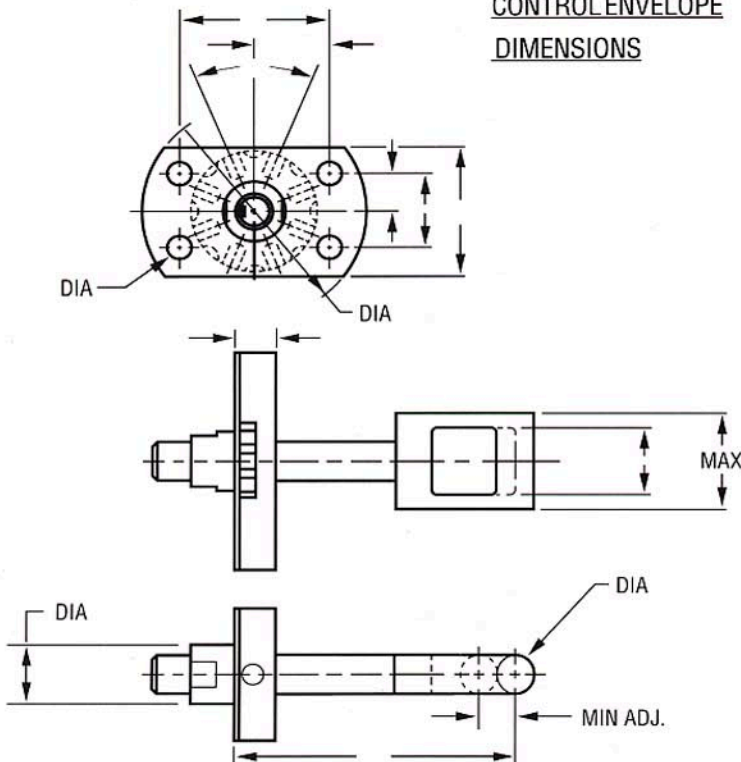
COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____

 PHONE NO. _____
 FAX NO. _____

KEEPERS & EYEBOLTS (SEE PAGE 11)

CONTROL ENVELOPE DIMENSIONS



DATA

1. ULTIMATE LOAD _____ LBS.
1. FATIGUE LIFE _____ CYCLES
 _____ LBS. MIN. FOR _____ LBS. MAX.
2. OPERATING TEMPERATURE _____ °F
3. MATERIAL _____
4. FINISH _____

COMMENTS: _____

COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____
 NAME _____

 PHONE NO. _____
 FAX NO. _____