

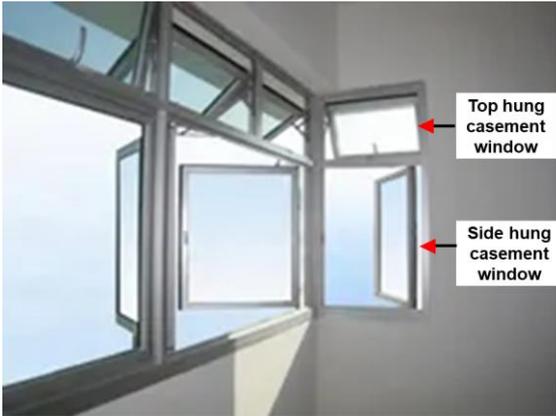
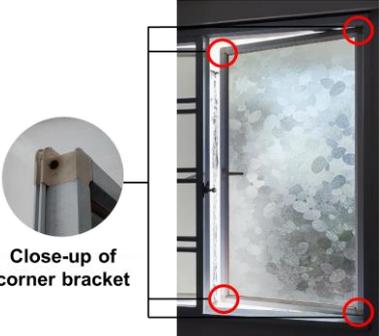
Casement windows

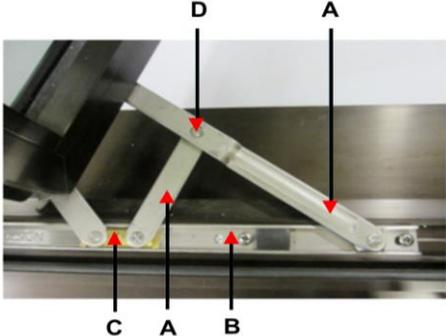
The images below show the different parts of a casement window:

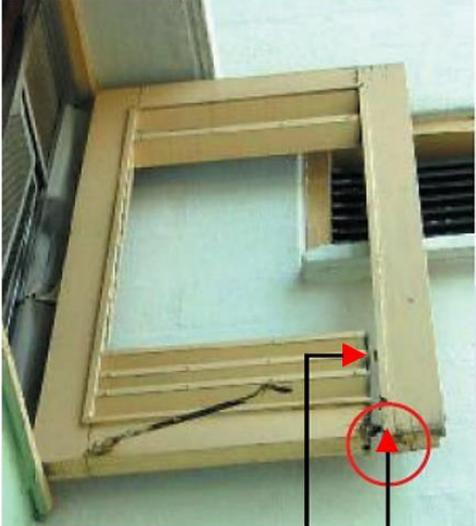


The following table lists the problems of casement windows that pose safety risks. You may use a small mirror to check the stainless steel screws/ rivets on the top and underside of the window panel. Do ensure that the relevant safety requirements are met.



Problems	Solutions/ Requirements
<p>1) Broken, rusty, corroded or non-stainless steel rivets/ screws (usually concerning friction stay)</p> <p>2) Sagged/ bent/ loose friction stay</p>	<ul style="list-style-type: none"> • Engage a BCA-approved window contractor listed with HDB to: <ul style="list-style-type: none"> ○ Replace the existing friction stay with one made of stainless-steel grade 304 or equivalent. ○ Use stainless steel grade 304 or equivalent rivets with a minimum diameter of 4.8mm. For existing casement window (i.e. top hung or side hung), there should be at least 3 rivets/ screws for each side of the window friction stay. For retrofitted/ newly replaced casement window there should be at least 4 rivets/ screws on each side of the friction stay. 
<p>3) Loose screws</p>	<ul style="list-style-type: none"> • Tighten loose screws
<p>4) Deteriorated corner brackets</p>  <p>Close-up of corner bracket</p>	<ul style="list-style-type: none"> • Engage a BCA-approved window contractor listed with HDB to replace the deteriorated corner brackets.

Problems	Solutions/ Requirements
<p>5) Loose rubber gasket</p> 	<ul style="list-style-type: none"> • Push the rubber gasket tightly into the groove • Engage a BCA-approved window contractor listed with HDB to replace any brittle/broken gasket with a new strip. Ensure that the new strip is fixed tightly into the inner frame of the glass
<p>6) Cracked or loose glass panels</p>	<ul style="list-style-type: none"> • Engage a BCA-approved window contractor listed with HDB to replace any cracked glass panes and rubber gasket
<p>7) Difficulty in closing window</p>	<ul style="list-style-type: none"> • Clean and remove dirt, debris and any obstruction from the hinge or friction stay (A), hinge track (B) and sliding shoe (C) • Lubricate or grease the hinge track (B), sliding shoe (C) and pivoting point (D) • Ensure friction stays are properly fixed to the aluminium parts • Engage a BCA-approved window contractor listed with HDB to carry out repair if any of the fixtures are missing or become loose 

Problems	Solutions/ Requirements
Additional problem for wooden casement windows	
<p>8) Decayed or detached parts</p>  <p>Detached louvres</p> <p>Decayed window parts</p>	<ul style="list-style-type: none"> • Engage a BCA-approved window contractor listed with HDB to replace decayed or detached part(s) • Ensure your window contractor apply for HDB's approval to replace wooden windows with aluminium ones if the decayed parts cannot be repaired. You can log in to My HDBPage to check the application status.