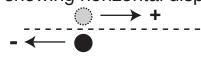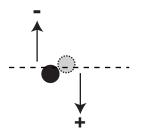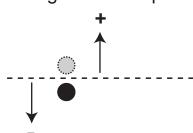l

far split node

near split node

j

fault
plane

k

Side View of split nodes
showing vertical disp.

Top View of split nodes
showing normal disp.

Top View of split nodes
showing horizontal disp.

horizontal displacement of split node on far side of fault = $u(j,k,l^+)$
horizontal displacement of split node on near side of fault = $u(j,k,l^-)$
horizontal slip = $u(j,k,l^+) - u(j,k,l^-)$ (>0 for right-lateral strike-slip)

vertical displacement of split node on far side of fault = $v(j,k,l^+)$
vertical displacement of split node on near side of fault = $v(j,k,l^-)$
vertical slip = $v(j,k,l^+) - v(j,k,l^-)$ (>0 for downward slip)

normal displacement of split node on far side of fault = $w(j,k,l^+)$
normal displacement of split node on near side of fault = $w(j,k,l^-)$
normal slip = $w(j,k,l^+) - w(j,k,l^-)$ (>0 for extension)