

# ImpulsiveManeuverVehicleFrame 4.5.1

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```
public class ImpulsiveManeuverVehicleFrame {  
  
    public static void main(String[] args) throws PatriusException {  
  
        // Creating a mass model with a main part and with a tank  
        final AssemblyBuilder builder = new AssemblyBuilder();  
  
        // Main part (dry mass)  
        final double dryMass = 1000.;  
        builder.addMainPart("MAIN");  
        builder.addProperty(new MassProperty(dryMass), "MAIN");  
  
        // Tank part (ergols mass)  
        final double ergolsMass = 100.;  
        builder.addPart("TANK", "MAIN", Transform.IDENTITY);  
        builder.addProperty(new MassProperty(ergolsMass), "TANK");  
  
        final Assembly assembly = builder.returnAssembly();  
        final MassProvider mm = new MassModel(assembly);  
  
        // Event corresponding to the criteria to trigger the impulsive  
maneuver  
        // (when the S/C is at the apogee)  
        final EventDetector event = new AnomalyDetector(PositionAngle.TRUE,  
FastMath.PI);  
  
        // Creation of the impulsive maneuver (20 m/s int the x vehicle  
direction)  
        final Vector3D deltaV = new Vector3D(20., 0., 0.);  
        final double isp = 300.;  
        // Warning : as the maneuver is defined in the vehicle frame,  
        // it will be mandatory to define an attitude when propagating the  
orbit.  
        final ImpulseManeuver imp = new ImpulseManeuver(event, deltaV, isp,  
mm, "TANK");  
  
        System.out.println("DV components: "+imp.getDeltaVSat());  
        System.out.println("Maneuver frame: "+imp.getFrame());  
  
    }  
  
}
```

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