

SREM location on spacecraft

Reference document : RO-DSS-IF-1201 Issue 3

Pg 128 –Annex A0 Rosetta flight configuration mech drawing SYS-02-3/8 2480-100 002A00C

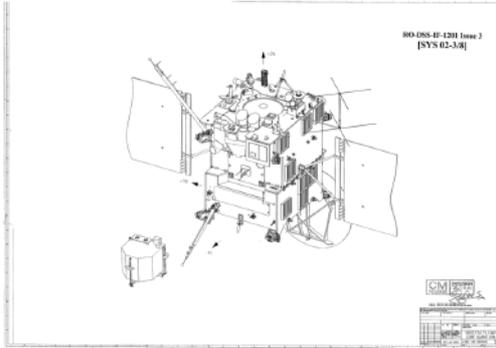


Figure 1: taken from Pg 128 –Annex A0 Rosetta flight configuration mech drawing SYS-02-3/8 2480-100 002A00C

Pg 231+232 -Annex A1d SREM Mechanical I/F drawing. (from SREM-DI-CSZ-001)

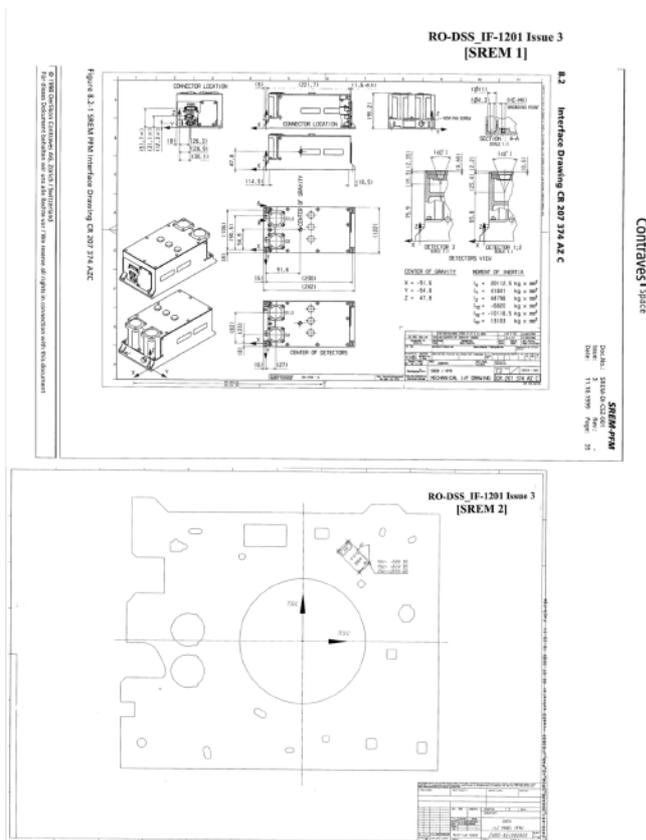


Figure 2a+b: taken from Pg 231+232 -Annex A1d SREM Mechanical I/F drawing. (from SREM-DI-CSZ-001)

SREM is located on the +Z panel of the spacecraft (as is most of the science payload) as seen in figure 1 and figure 2b. SC coordinates wrt launch adapter.

SREM is located at:

Xsc=+508.95

Ysc=+614.95

Zsc=+2655.00

At an angle of -45° from the Ysc axis.

Location coordinates on SC are with respect to the SREM connector located at

$X_{SREM} = -230$

$Y_{SREM} = -106$

$Z_{SREM} = 0$

Location of SREM head D12 in SC coordinates using geometry in figure info below

$X_{sc} = \del{390.22723} 349.1$

$Y_{sc} = \del{768.11263} 742.2$

$Z_{sc} = 2720.8$

Location of SREM head D3 in SC coordinates using geometry in figure info below

$X_{sc} = \del{358.70791} 306.7$

$Y_{sc} = \del{717.05842} 699.8$

$Z_{sc} = 2730.9$

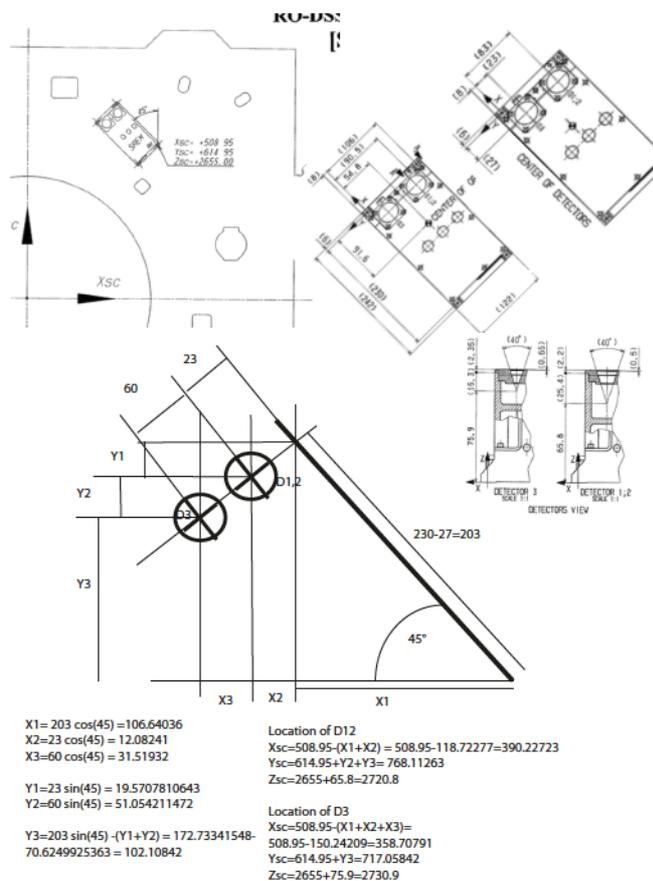


Figure 3. Combination of geometry info to calculate SREM head locations (centre) in sc coordinates.