

FIGURE 2-1
PLR configuration

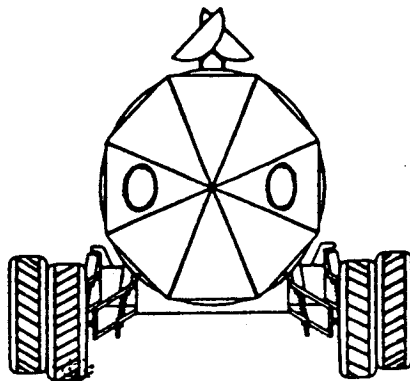
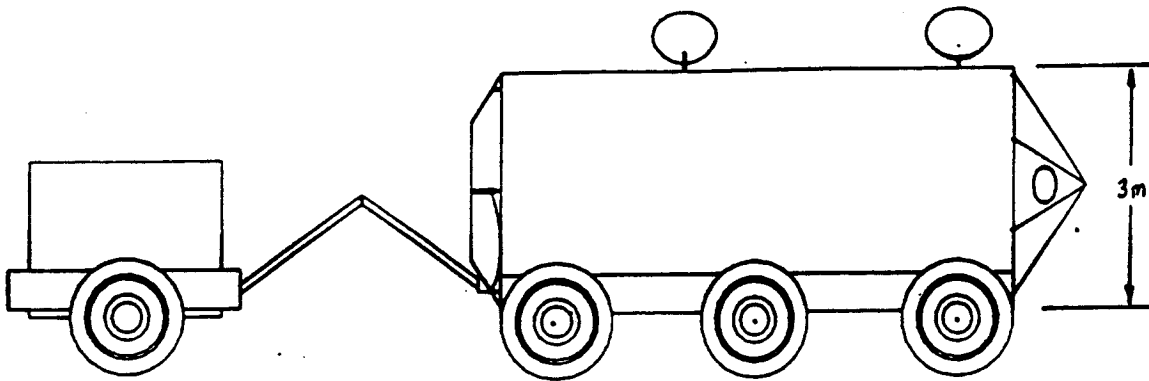
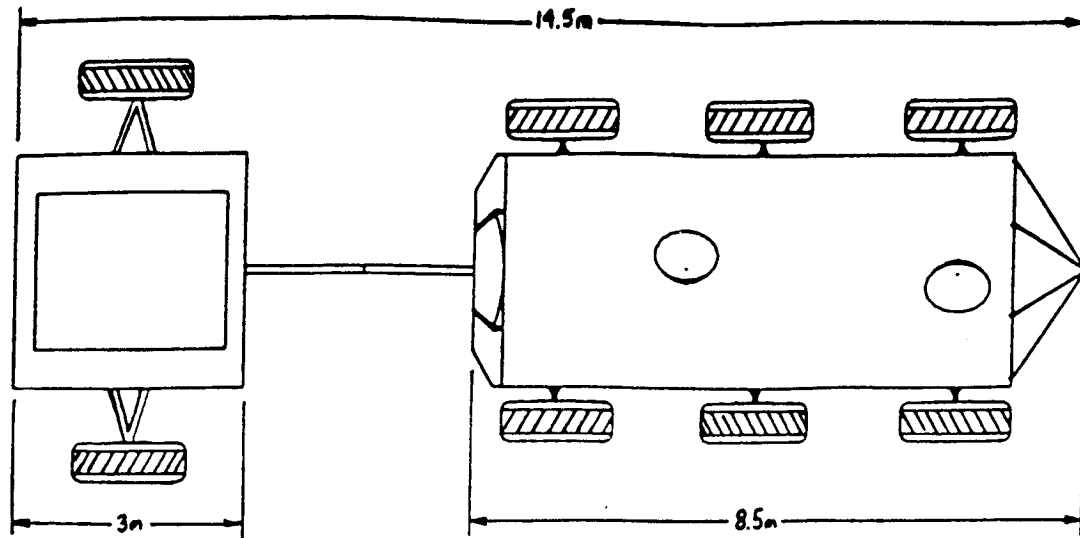


FIGURE 2-2
PLR dimensions

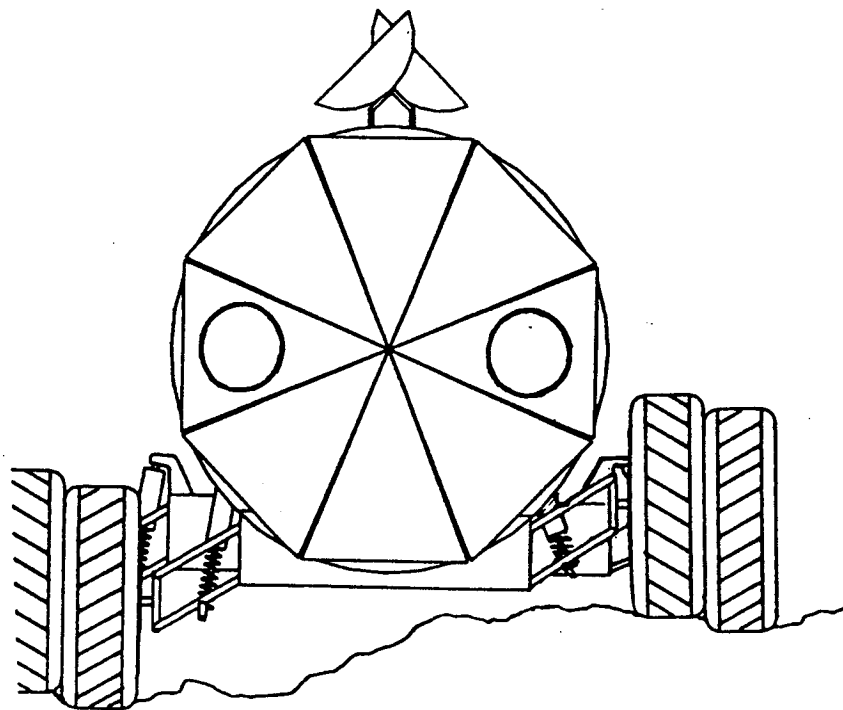
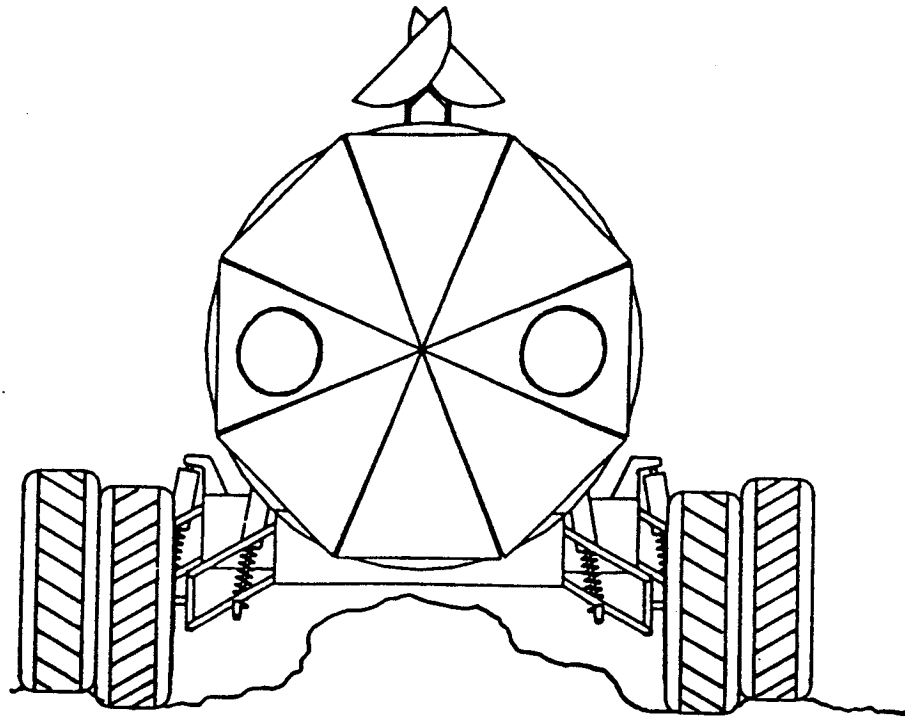


FIGURE 2-4
Ground Clearance

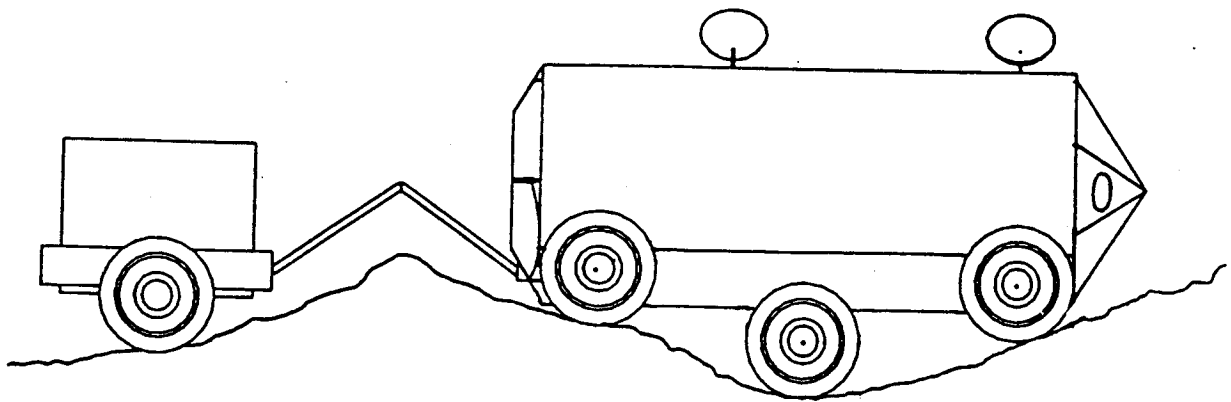
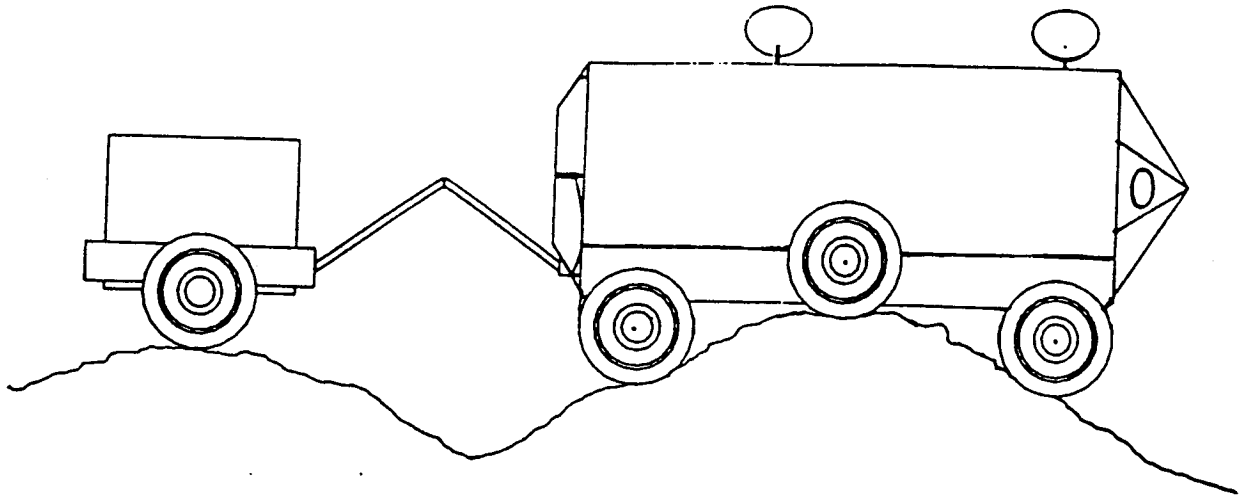


FIGURE 2-5
Mobility Diagram

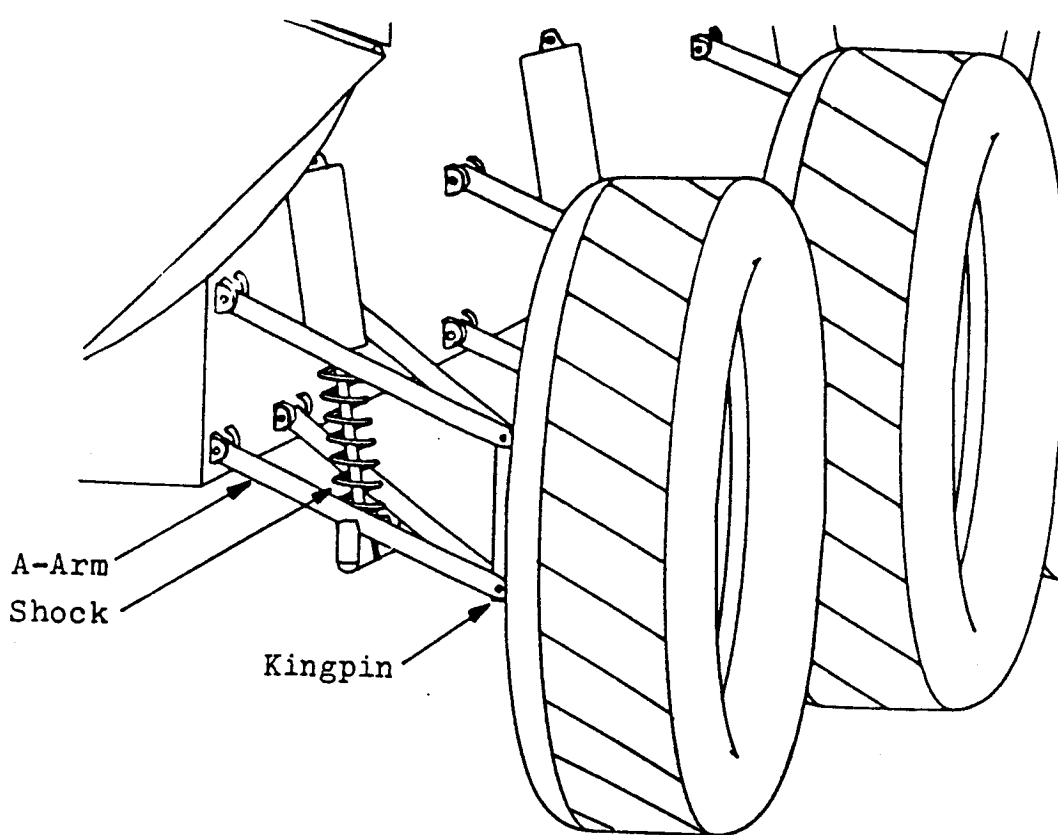


FIGURE 2-6
Suspension Diagram

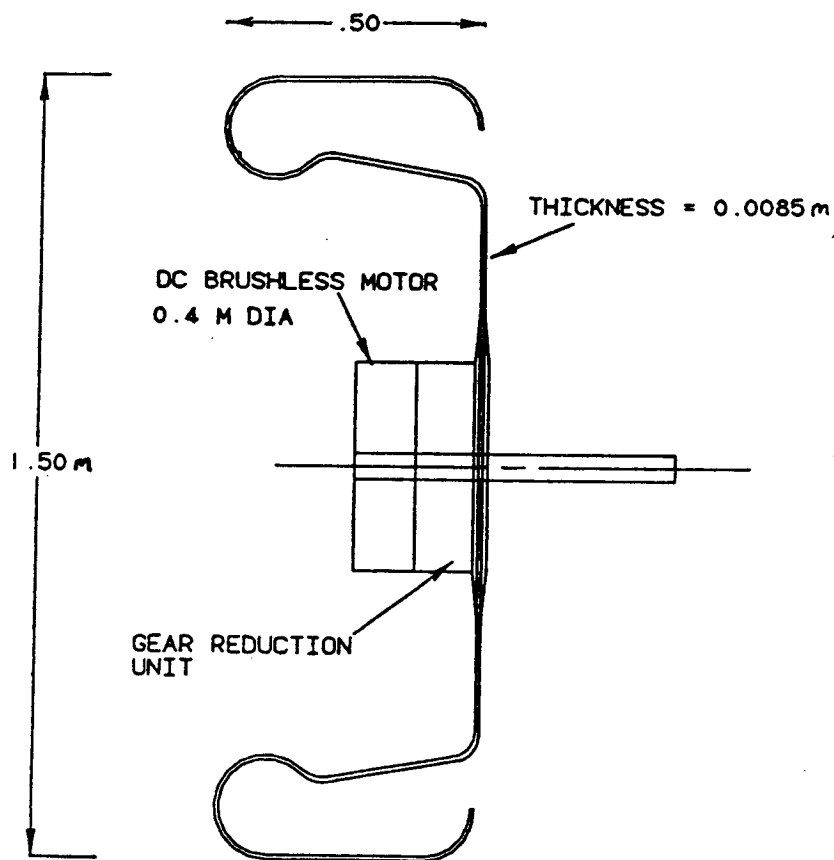


FIGURE 2-7
Wheel Cross Section

TABLE 6-1: Mass Summary (all masses in kg)

body	
shell	500
suspension	102
wheels	240
motors	122
gear units	60
controllers	68
<hr/>	
<u>interior</u>	
walls, dividers, floor	490
<hr/>	
life support	
water requirements	388
food	112
oxygen	177
equipment	813
Total life support system (full load):	1490
<hr/>	
power system	
RTG	1000
batteries	200
wiring system	150
radiator system	150
Total power system:	1500
<hr/>	
shielding	
water shielding	400
foil shielding	20
<hr/>	
electronics	
computer(s)	35
monitors	60
transponders	13
data storage	8
antenna(s)	25
control system	150
GN&C	65
Total Electronics System Mass:	356
<hr/>	
other weights	
occupants	300
external equipment	250
EVA suits	65
trailer body	150
<hr/>	
<u>TOTAL PLR MASS:</u>	6113