





ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	NMLP-01-01	PRIMARY MAGNETIZATION SOLENOID	COPPER MAGNET WIRE	1
2	NMLP-01-02	SECONDARY PROTECTION SOLENOID	COPPER MAGNET WIRE	1
3	RM212-100-121-5500	30 PIN REQUIRED CONNECTOR		1
4	NMLP-01-03	MOUNTING PLATE	ALUMINUM 7075	1
5	NMLP-01-04	MAIN PCB		1
6	95435A219	#2-56 X 3/8" SHCS	TITANIUM	2
7	90545A003	#2-56 HEX NUT	TITANIUM	2
8	92511A127	#2 X 3/16" SPACER	ALUMINUM	4
9	98511A131	#2-56 X 1/2" SHCS	ALUMINUM 7075	4
10	DRV425	SINGLE AXIS FLUXGATE MAGNETOMETER		3
11	NMLP-01-06	FLUXGATE MAGNETOMETER PCB 1		1
12	524651470	14 PIN RIGHT-ANGLE CONNECTOR		1
13	533091470	14 PIN RIGHT-ANGLE CONNECTOR		1
14	524651070	10 PIN RIGHT-ANGLE CONNECTOR		1
15	533091070	10 PIN RIGHT-ANGLE CONNECTOR		1
16	NMLP-01-07	FLUXGATE MAGNETOMETER PCB 2		1
17	NMLP-01-08	PRIMARY SOLENOID SUPPORT	PTFE	1
18	NMLP-01-09	PRIMARY SOLENOID STANDOFF	PTFE	1
19	98885A108	#6-32 X 1/2" SHCS	PEEK	2
20	NMLP-01-10	SECONDARY SOLENOID SUPPORT	PTFE	1
21	NMLP-01-11	SECONDARY SOLENOID STANDOFF	PTFE	2
22	98885A101	#2-56 X 1/4" SHCS	PEEK	4

TOTAL MASS: 0.3782kg

	NAME	DATE	TITLE: Ferromagnetic Resource Identification with Electromagnetic Devices (FRIEND) Payload Assembly		
	DRAWN BY	KTOWERS-JONES			7 JUNE 2020
	CHECKED BY				
	APPROVED BY				
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.003	MATERIAL: Refer to BOM	SIZE DWG. NO. REV			
QUANTITY:		A NMLP-00-01 1			
		SCALE: 2:3		SHEET 2 OF 2	