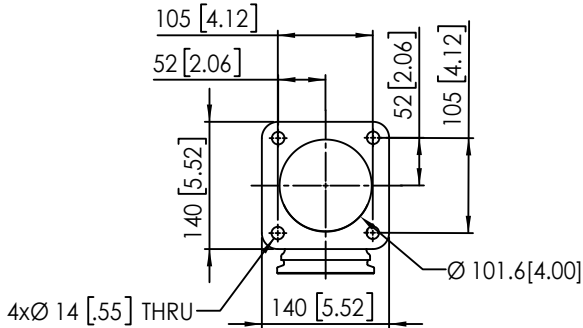
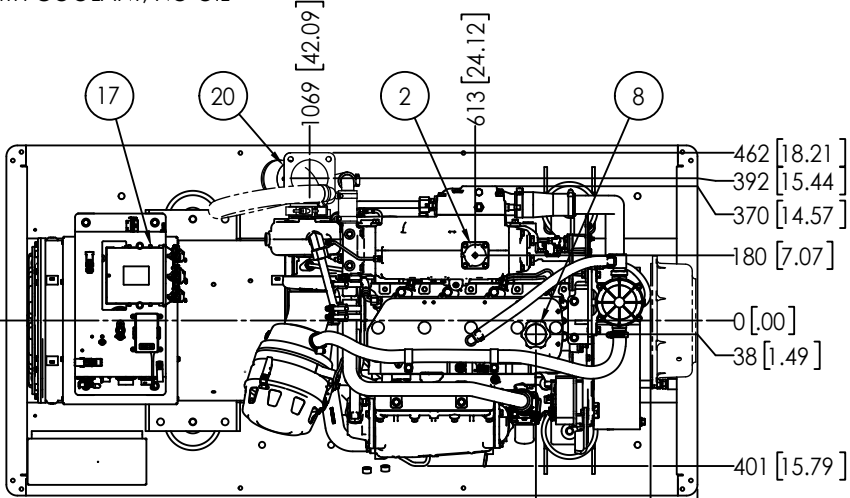
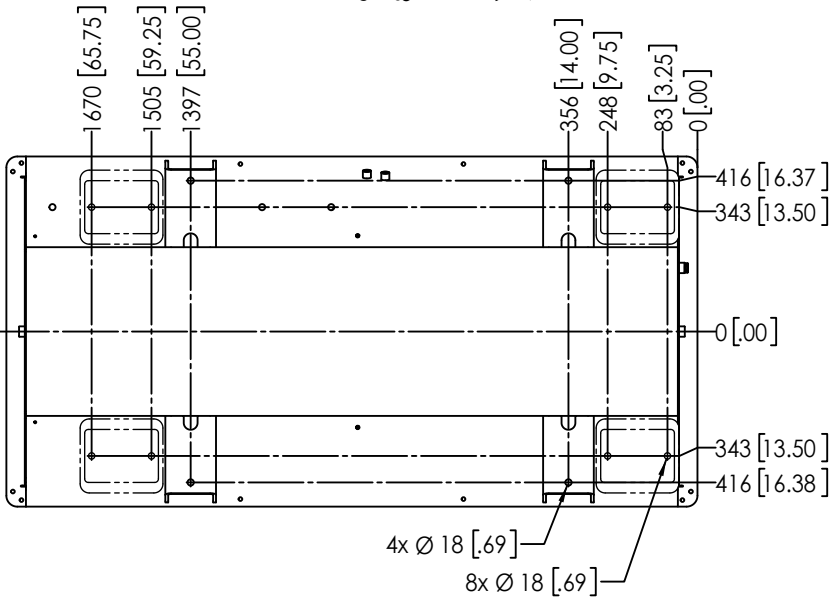
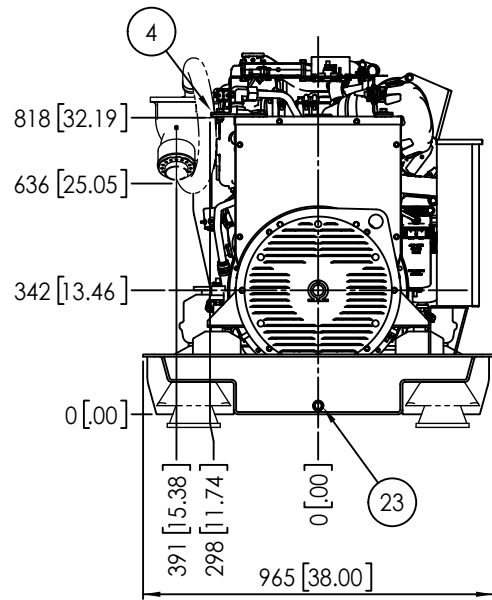
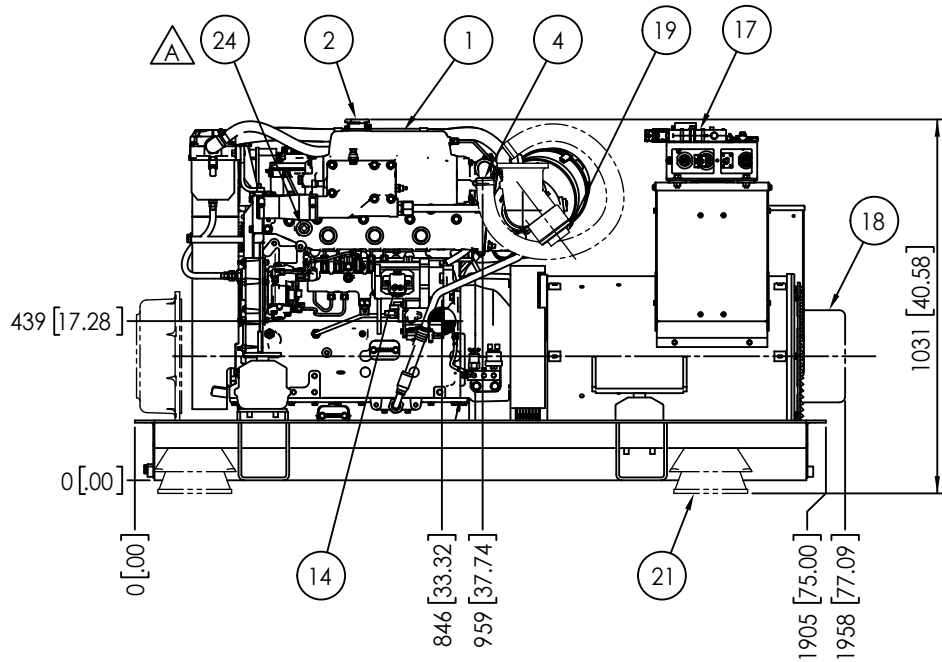
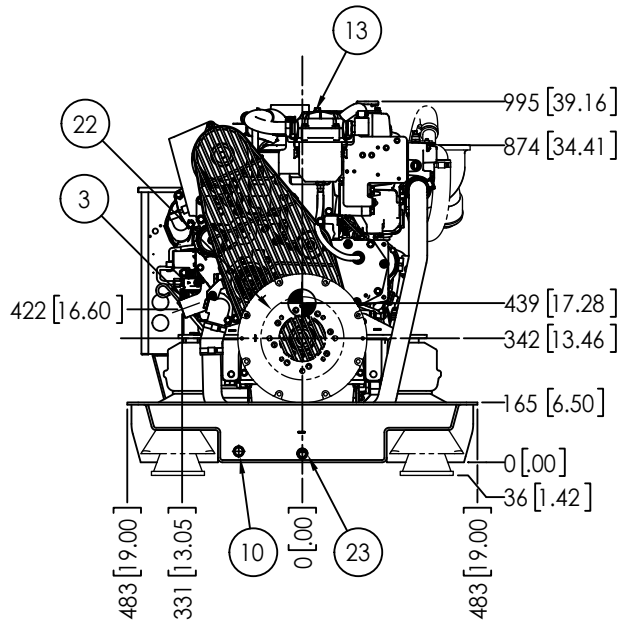
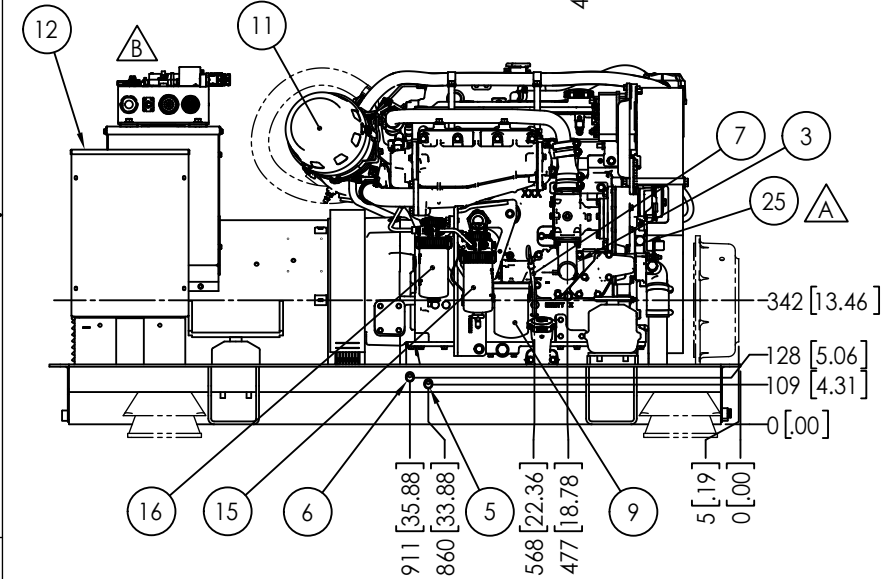


MODELS	APPROX. WT. lbs [kg]
M80A13.11L - 80kW 1800 RPM 60Hz 3 Ø	2633 [1194]*
M99A13.11L - 99kW 1800 RPM 60Hz 3 Ø	2633 [1194]*

*WITH COOLANT, NO OIL



OPTIONAL DRY EXHAUST ELBOW FLANGE DETAIL

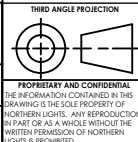


ITEM	DESCRIPTION
1	EXPANSION TANK
2	COOLANT FILL
3	SEAWATER INLET Ø 2.0 H.B.
4	SEAWATER OUTLET Ø 1.5 H.B. (DRY EXHAUST)
5	FUEL SUPPLY Ø 3/8 NPT
6	FUEL RETURN Ø 3/8 NPT
7	CRANKCASE OIL DIPSTICK
8	CRANKCASE OIL FILLER
9	CRANKCASE OIL FILTER
10	ENGINE OIL DRAIN - 1/2 NPT
11	AIR INLET FILTER
12	D.C. JUNCTION BOX
13	CLOSED CRANKCASE VENTILATION SYSTEM

14	ELECTRIC STARTER
15	PRIMARY FUEL FILTER
16	FINAL FUEL FILTER
17	ENGINE CONTROL UNIT
18	OPTIONAL PMG
19	OPTIONAL WET EXHAUST ELBOW - Ø 4.0 H.B.
20	OPTIONAL DRY EXHAUST ELBOW - SEE DETAIL
21	OPTIONAL COMPOUND MOUNTS
22	OPTIONAL PTO - "C" SPLINE 14T 12/24 D.P. 2 AND 4 BOLT FLANGE
23	BASE PAN DRAIN - 1/2 NPT
24	HEATER SUPPLY - 3/4 - 14 NPTF
25	HEATER RETURN - M18 X 1.5 O-RING PORT

THE DIMENSIONS ON THIS DRAWING ARE
SUBJECT TO CHANGE. PLEASE CONTACT
NLI TO BE SURE YOU HAVE THE MOST
CURRENT REVISION.

B	ADDED ENGINE TO ECU HARNESS BRACKET. ADDED 99 kW POWER RATING. ECN 6796	6/10/2020	MG	LTP
A	ADDED HEATER SUPPLY AND RETURN INSTALLATION POINTS. ECN 3514	9/10/2015	MG	TAH
REV.	DESCRIPTION	DATE	BY	CHECKED
REVISIONS				



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NORTHERN LIGHTS		4420 14th AVE. N.W. Seattle, WA 98107 (206) 789-3880 www.northern-lights.com
DIMENSIONS ARE IN MILLIMETERS		DRAWN	MG	08/06/13	TITLE: INSTALLATION DIMENSIONS	
TOLERANCES:		CHECKED	TAH	10/20/14	M99/M80A13.11L H.E.	
ANGLES:		ENG APPR.			SIZE PART NO.	
MACH: 0.5° BEND ± 1.0°		MFG APPR.			DWG. NO. D-4799	
X ± 3		G.A.			REV B	
X.X ± 2		COMMENTS:			SCALE: 1:10	
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5M					WEIGHT:	
WATERLINE					SHEET 1 OF 1	
PUSH						
DO NOT SCALE						