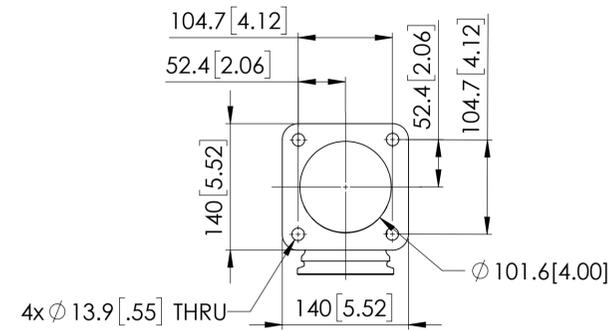
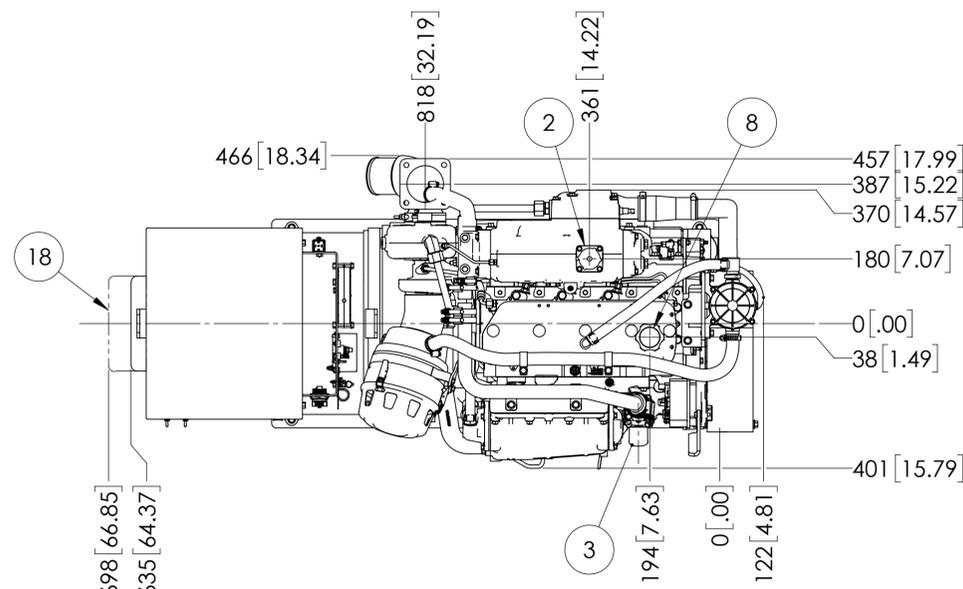
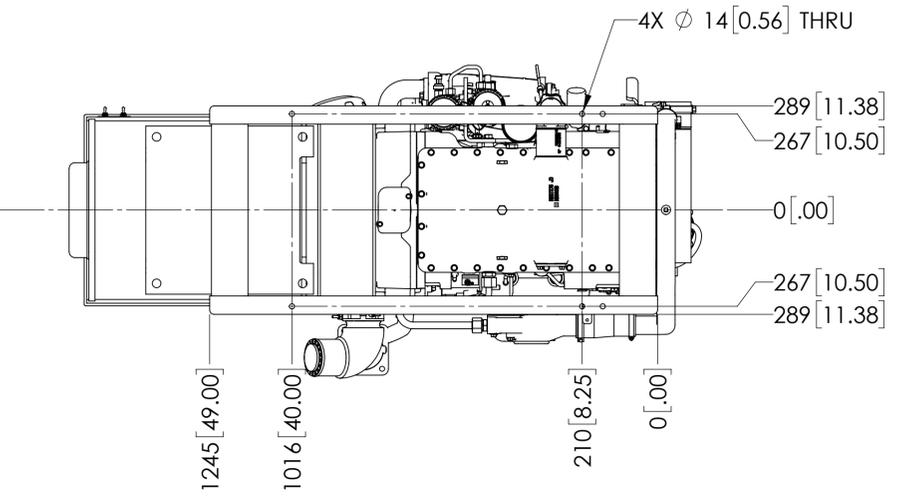
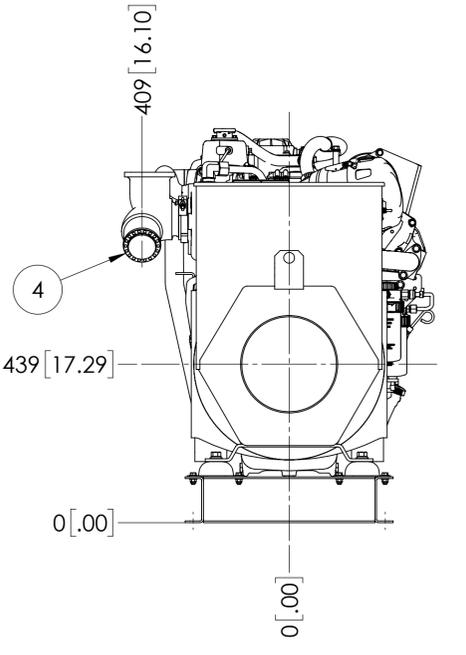
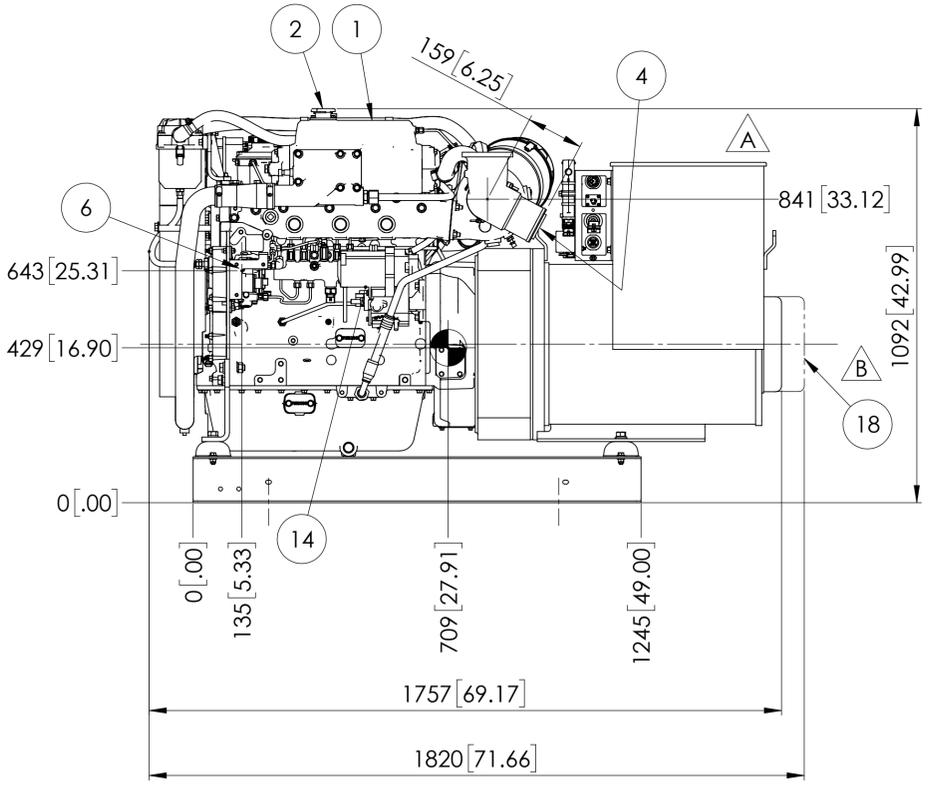
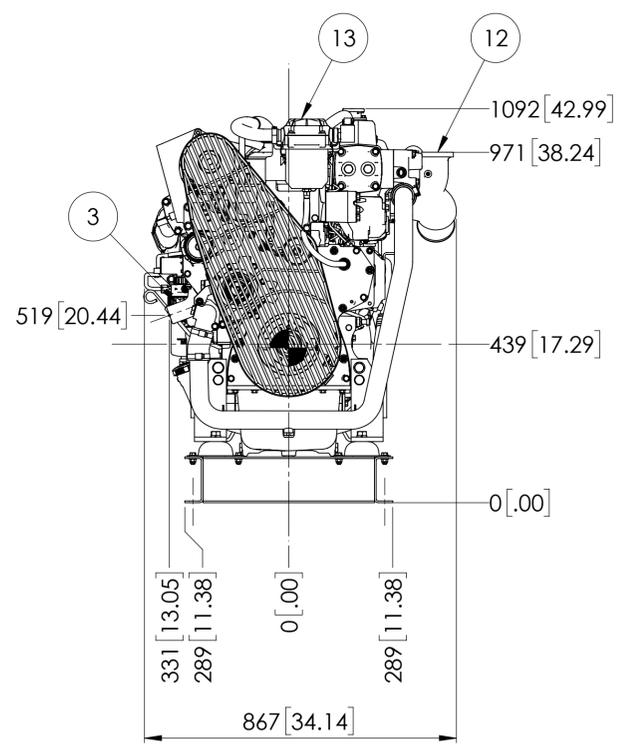
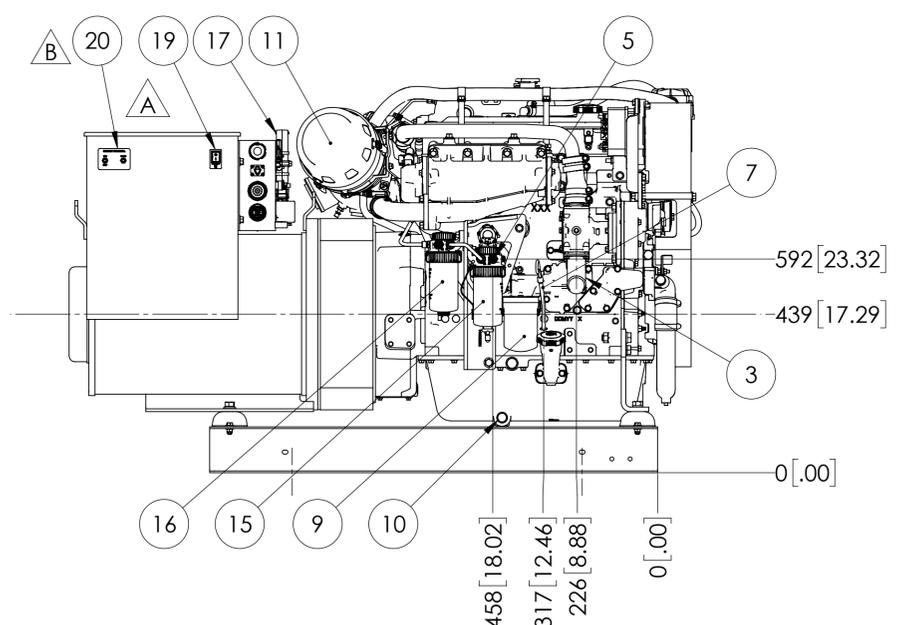


MODELS	APPROX. WT. lbs [kg]
M99C13.1S 99kW 1800 RPM 60Hz 3 ϕ	2595 [1177]

ITEM	DESCRIPTION
1	EXPANSION TANK
2	COOLANT FILL
3	SEAWATER INLET - ϕ 2.0 H.B.
4	OPTIONAL WET EXHAUST ELBOW - ϕ 4.0 H.B.
5	FUEL SUPPLY - ϕ 3/8 H.B.
6	FUEL RETURN - ϕ 1/4 H.B.
7	CRANKCASE OIL DIPSTICK
8	CRANKCASE OIL FILLER
9	CRANKCASE OIL FILTER
10	ENGINE OIL DRAIN - M18x1.5
11	AIR INLET FILTER
12	OPTIONAL DRY EXHAUST ELBOW - SEE DETAIL
13	CLOSED CRANKCASE VENTILATION SYSTEM
14	ELECTRIC STARTER
15	PRIMARY FUEL FILTER
16	FINAL FUEL FILTER
17	ENGINE CONTROL UNIT
18	OPTIONAL PMG
19	EMERGENCY STOP SWITCH
20	GENSET CONTROL TOGGLE SWITCHES



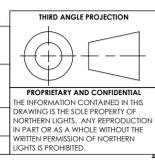
OPTIONAL DRY EXHAUST ELBOW FLANGE DETAIL



NOTE:
1. FOR M99C13 WITH OPTIONAL PTO, SEE DRAWING D-4777.

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

REV.	DESCRIPTION	DATE	BY	CHECKED
B	MOVED ENGINE TO ECU HARNESS KIT. ADDED E-STOP AND GENSET CONTROL SWITCHES. ECN 7312	4/29/2021	MG	DV
A	ADDED ENGINE TO ECU HARNESS KIT. CHANGED DIM.: NOW 1101 WAS 1092. CHANGED WEIGHT: NOW 2595 LB WAS 2585 LB. ECN 6803	6/12/2020	MG	LTP



UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MILLIMETERS		MG	08/06/13
TOLERANCES:		CHECKED	TAH
ANGULAR: MACH: 0.5° BEND ± 1.0°		ENG APPR.	
X ± 0.3		MEG APPR.	
X.X ± 2		G.A.	
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5M		COMMENTS:	
MATERIAL:			
FINISH:			
DO NOT SCALE			

NORTHERN LIGHTS
4420 14th AVE. N.W.
Seattle, WA 98107
(206) 789-3880
www.northern-lights.com

TITLE: **INSTALLATION DIMENSIONS**
M99C13.1S H.E. W/O OPTIONAL PTO

SIZE: **D** PART NO. DWG. NO. **D-4776** REV **B**

SCALE: 1:10 WEIGHT: SHEET 1 OF 1