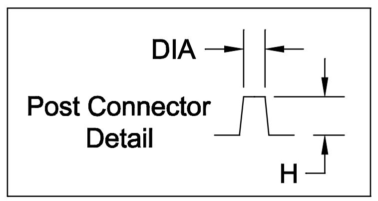
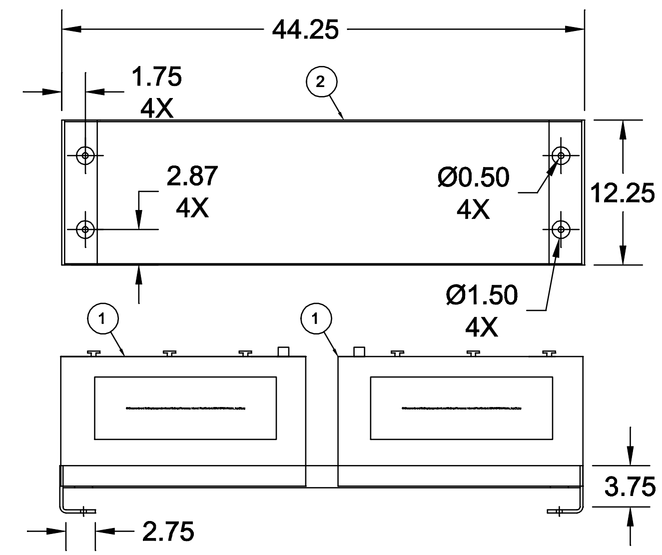
Clarke Battery P/N	Battery Model #	SAE # per J537	Engine Model Reference	Mfg.	Volts	Overall Dimensions	Weight lb (kg)		Performance Level			
						L x W x H in(mm)	Wet	Dry	Cold Cranking Amps @ 0 F (CCA) (3A)	Cranking Amps @ 32 F (CA)	Reserve Capacity (Minutes) (3B)	Rating @ 80 F (Amp Hours) (3C)
C07633	908D - Dry	8D-900	All JU4H, JU4R, JU6H & JW6H	Deka	12V	20.75 x 11.0 x 10.0 (527 x 279 x 254)	130 (59.1)	80 (36.4)	1400	1700	430	185
			ALL JX6H, DP, DQ & DT		24V							

Note: All information provided per Deka Commerical Battery Link, http://www.eastpenn-deka.com/assets/base/0010.pdf



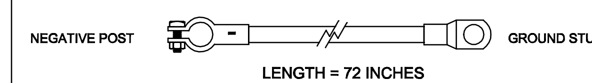
Post Connector Dimensions in(mm)			
POSITIVE		NEGATIVE	
DIA	H	DIA	H
3/4" (19.1 mm)	3/4" (19.1 mm)	5/8" (15.9 mm)	3/4" (19.1 mm)

BATTERY RACK
ITEM # 2
CLARKE P/N:C07001

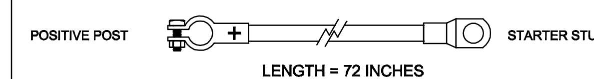


12 V & 24 V BATTERY CABLE SPECIFICATIONS					
Item	Clarke P/N	Size AWG (mm?)	Terminal 1 Type	Terminal 2 Type	Terminal 2 Φ
3	C071171	$\frac{2}{0}$ (70)	Negative Post	Ring	$\frac{1}{2}$" (12 mm)
4	C071172	$\frac{2}{0}$ (70)	Positive Post	Ring	$\frac{1}{2}$" (12 mm)
5	C07631	$\frac{2}{0}$ (70)	Positive Post	Negative Post	

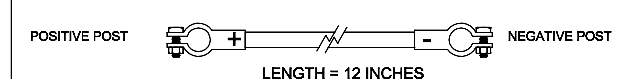
ITEM # 3 (CLARKE P/N: C071171)



ITEM # 4 (CLARKE P/N: C071172)



ITEM # 5 (CLARKE P/N: C07631)



Notes:

1. Batteries equipped with handles and lifting ledges.
2. Batteries are manufactured in black polypropylene case and cover.
3. Meets SAE storage battery requirements for SAE J537 JUN92.
   3A.While discharging specified amps, the battery voltage across the terminals after 30 seconds is 1.2 volts/cell or greater.
   3B. Time (minutes) to discharge battery at 25 amps when voltage across the battery terminals have fallen to 1.75 volts/cell.
   3C. Amp Hours = (reserve (minutes) x 25 amps)/60 min/hr
4. Battery should set into battery rack on $\frac{1}{2}$" plywood (or equal) to provide insulation and support.
5. Battery meets NFPA 20 2010 requirements: At 40°F (4.5 °C), each battery unit shall have twice the capacity sufficient to maintain the cranking speed recommended by the engine manufacturer through a 3-minute attempt-to-start cycle, which is six consecutive cycles of 15 seconds of cranking and 15 seconds of rest (Section 11.27.2.1.4). Batteries shall be sized on a calculated capacity of 72 hours of standby power followed by three 15-second cycles per battery unit, without ac power being available for battery charging (Section 11.2.7.1.5). Essential loads, including the engine, controller, and all pump equipment combined, shall not exceed 0.5 ampere each for a total of 1.5 amperes, on continuous basis (Section 11.2.7.2.3.2).
6. Battery cable length (total circuit) should not exceed the guidelines for minimum size or max circuit resistance as provided on the installation & operation data sheet for the given engine model.
7. Batteries are shipped dry charged and without electrolyte (by others). See "Activation - Dry Charged Batteries."

Activation - Dry Charged Batteries:

1. Use premix battery grade electrolyte (Specific Gravity: 1.265) Each 908D battery will take approximately 18 qts (16.5 L) of electrolyte.
2. Remove the six vents caps for each battery.
3. With proper safety gear (eye protection, gloves, etc.) carefully fill each of the six cells to cover the plates and just below the vent well. **DO NOT OVERFILL!**
4. Re-install vent caps.
5. It is recommended that the battery chargers in fire pump controller are used for 1 day prior to putting batteries/engine in service.
6. After initial charge, check level of electrolyte in all cells. If required, add additional electrolyte to bring all levels to the bottom of the vent wells. **DO NOT OVERFILL!** If batteries require top-off while in service, add water. **DO NOT ADD ACID**.

12V 908D BATTERY KIT, CLAKE P/N: C07844 (FIGURE 1)			
Item	Clarke P/N	QTY	Description
1	C07633	2	Battery - 908D, Dry, 1400 CCA, 12V
2	C07001	1	Battery Rack
3	C071171	2	Battery Cable - Negative/Ground
4	C071172	2	Battery Cable - Positive/Starter

24V 908D BATTERY KIT, CLAKE P/N: C07688 (FIGURE 2)			
Item	Clarke P/N	QTY	Description
1	C07633	4	Battery - 908D, Dry, 1400 CCA 12V
2	C07001	2	Battery Rack
3	CO71171	2	Battery Cable - Negative/Ground
4	C071172	2	Battery Cable - Positive/Starter
5	C07631	2	Battery Cable - Negative to Postive

NOTE: CABLES NOT TO SCALE

Figure 1:
12V Negative Ground System

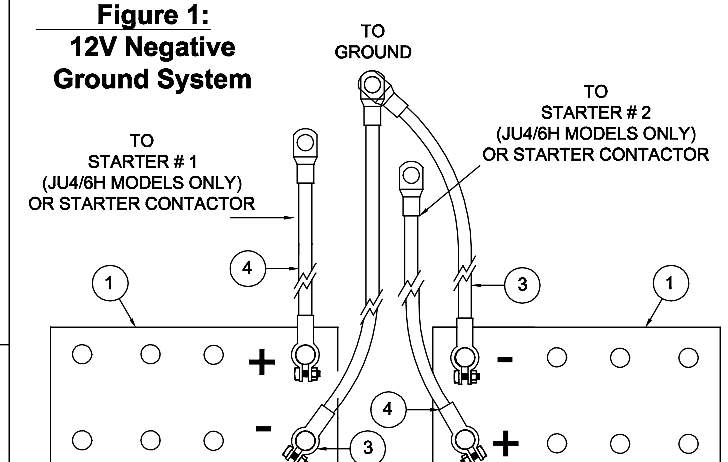
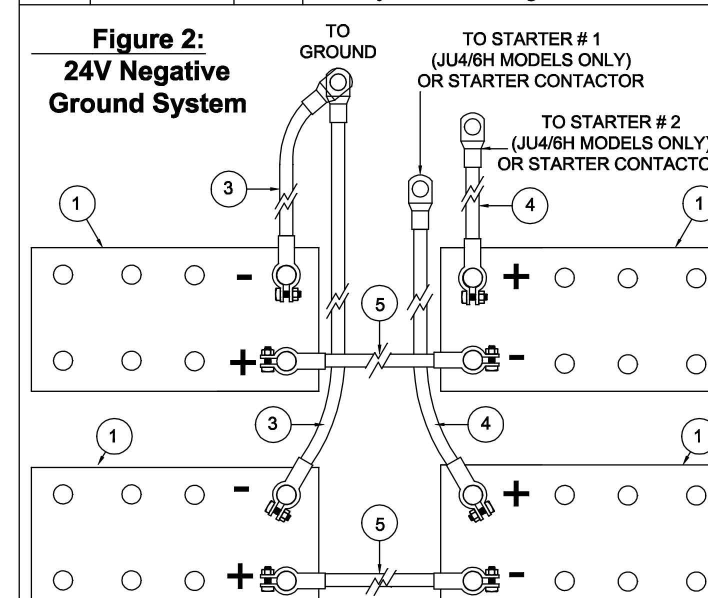


Figure 2:
24V Negative Ground System



REV	DESCRIPTION	ECN#	DWN	APVD	DATE
F	OVERALL DRAWING REVISION	1920	JCA	KRW	31JUL10
G	ADDED ACTIVATION NOTE	2095	JCA	KJK	14OCT10
H	CORRECTED FIGURE 1 - WIRING	2146	JCA	KRW	30NOV10
J	ADDED DOOSAN ENGINE MODELS	2355	AMC	KRW	23SEP11

MACHINE TOLERANCES
FABRICATION TOLERANCES

YES NO
CONTROLLED DRAWING

DRWN JAUGENSTEIN
DATE 31JUL10
ENGR KWAULIGMAN

CLARKE
Fire Protection Products, Inc.

NAME CLARKE USA SUPPLIED LEAD-ACID BATTERY KIT SPECIFICATIONS: ALL UL/FM NFPA20 ENGINE MODELS

PART NO. C131885 REV J

UNITS MM [INCH] PAGE OF 1 1