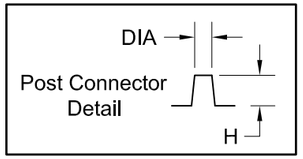
Clarke Battery P/N	Lead-Acid Battery Model #	SAE # per J537	Engine Model Reference	Volts	Overall Dimensions	Weight lb (kg)		Performance Level	
					L x W x H in(mm)	Wet	Dry	Cold Cranking Amps @ 0 F (CCA) (3A)	Reserve Capacity (Minutes) (3B)
C07633	8D - Dry	8D	All KA4H, JU4H, JU4R, JU6H, JU6R, JW6H	12V	20.75 x 11.0 x 10.0 (527 x 279 x 254)	130 (59.1)	80 (36.4)	1200	430
			ALL C13H0, C18H0, C32H0, DP, DQ, DR, DS, & DT	24V					



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)

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.
4. Battery should set into battery rack on $\frac{1}{2}$" plywood (or equal) to provide insulation and support.
5. Battery meets NFPA20 2019 requirements: Section 11.2.7.2.1.4: At 40°F (4°C), each battery unit A shall have capacity sufficient to maintain the cranking speed recommended by the engine manufacturer, during six consecutive cycles of 15 seconds of cranking and 15 seconds of rest. Section 11.2.7.2.1.5: At 40°F (4°C), each battery unit B shall have capacity sufficient to maintain the cranking speed recommended by the engine manufacturer, during six consecutive cycles of 15 seconds of cranking and 15 seconds of rest. Section 11.2.7.2.1.6: Batteries unit A and Battery unit B combined shall be sized, based on calculations, to have capacity to carry the loads defined in 11.2.7.2.3 for 72 hours of standby power followed by six consecutive cycles of 15 seconds of cranking and 15 seconds of rest without ac power being available for battery charging. Section 11.2.7.2.3.2: Essential loads, including the engine, controller, and all pump room equipment combined, shall not exceed 0.5 ampere each for a total of 1.5 amperes, on continuous basis.
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 and without electrolyte (by others). See "Activation - Dry Batteries."

Activation - Dry Batteries:

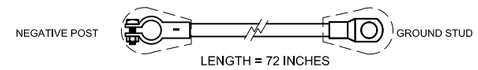
1. Use premix battery grade electrolyte (Specific Gravity: 1.265) Each 8D battery will take approximately 18 qts (16.5 L) of electrolyte.
2. Remove the six vents caps for each battery.
3. With proper safety gear (eye protection, gloves, etc.) carefully fill each of the six cells to cover the plates and 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**.

REV	DESCRIPTION	ECN#	DWN	APVD	DATE
Y	ADDED CONTROLLED DRAWING NOTATION	6309	LJV	MJD	25AUG21
Z	ADDED JU6R MODEL REFERENCE	N/A	JCA	JCA	16SEP21
AA	ADDED $\frac{4}{0}$ CABLES, BATTERY KIT C073490, C13H0 REF.	6672	MDM	CLR	14NOV22

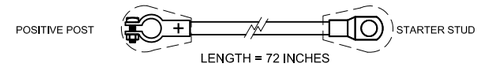
Item	Clarke P/N	Size AWG (mm^2)	Terminal 1 Type	Terminal 2 Type	Terminal 2 Φ
3	C071171	$\frac{2}{0}$ (70)	Negative Post	Ring	$\frac{1}{2}$" (12 mm)
4	C071172	$\frac{2}{0}$ (70)	Positive Post	Ring	$\frac{1}{2}$" (12 mm)
5	C07631	$\frac{2}{0}$ (70)	Positive Post	Negative Post	
6	C073488	$\frac{4}{0}$ (120)	Negative Post	Ring	$\frac{1}{2}$" (12 mm)
7	C073489	$\frac{4}{0}$ (120)	Positive Post	Ring	$\frac{1}{2}$" (12 mm)

12 V & 24 V BATTERY CABLE SPECIFICATIONS

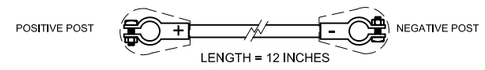
ITEM # 3 (CLARKE P/N: C071171)



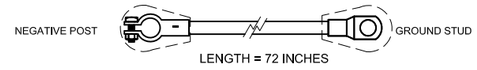
ITEM # 4 (CLARKE P/N: C071172)



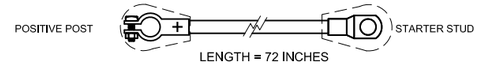
ITEM # 5 (CLARKE P/N: C07631)



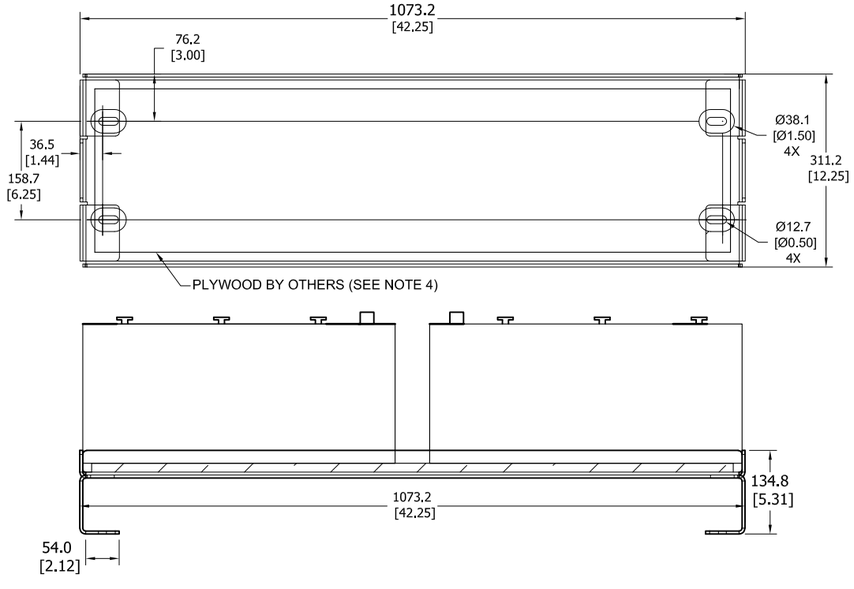
ITEM # 6 (CLARKE P/N: C073488)



ITEM # 7 (CLARKE P/N: C073489)



BATTERY RACK
ITEM # 2
CLARKE P/N:C072584



CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

CONTROLLED DRAWING: YES ☒ NO ☐

CLARKE®

DRWN	JAUGENSTEIN
DATE	31JUL10
ENGR	KWAULIGMAN

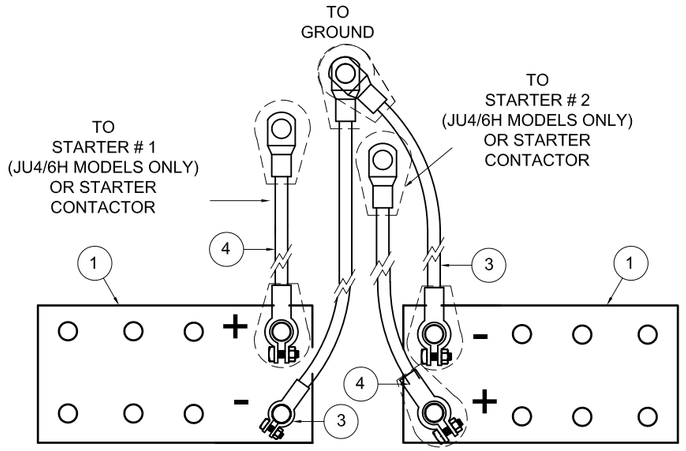
NAME: CLARKE USA SUPPLIED LEAD-ACID BATTERY KIT SPECIFICATIONS (FOR USE ON FIRE PUMP INSTALLATIONS THAT ARE UL, FM, & NFPA20)

PART NO. C131885 REV AA

UNITS MM [INCH] PAGE 1 OF 2

12V 8D BATTERY KIT, CLAKE P/N: C07844 (FIGURE 1)			
Item	Clarke P/N	QTY	Description
1	C07633	2	Battery 12V - 8D 1200 CCA DRY
2	C072584	1	Battery Rack
3	C071171	2	Battery Cable - Negative/Ground
4	C071172	2	Battery Cable - Positive/Starter

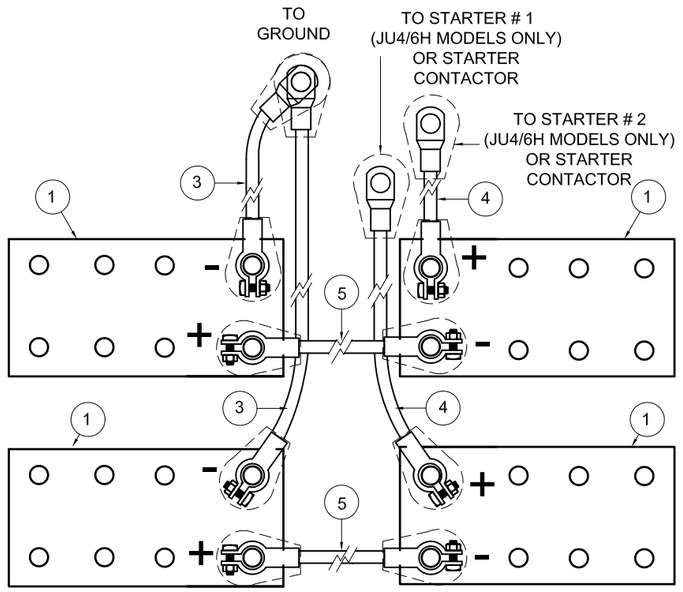
Figure 1:
12V Negative Ground System



NOTE: CABLES NOT TO SCALE

24V 8D BATTERY KIT, CLAKE P/N: C07688 (FIGURE 2)			
Item	Clarke P/N	QTY	Description
1	C07633	4	Battery 12V - 8D 1200 CCA DRY
2	C072584	2	Battery Rack
3	C071171	2	Battery Cable - Negative/Ground
4	C071172	2	Battery Cable - Positive/Starter
5	C07631	2	Battery Cable - Negative to Postive

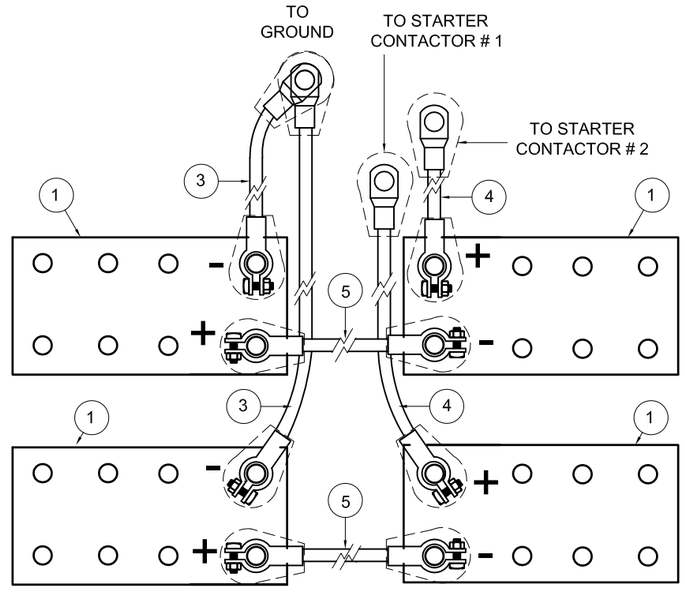
Figure 2:
24V Negative Ground System
ALL 24V ENGINE MODELS EXCEPT C32H0



NOTE: CABLES NOT TO SCALE

24V 8D BATTERY KIT, CLAKE P/N: C073490 (FIGURE 3)			
Item	Clarke P/N	QTY	Description
1	C07633	4	Battery 12V - 8D 1200 CCA DRY
2	C072584	2	Battery Rack
3	C073488	2	Battery Cable - Negative/Ground
4	C073489	2	Battery Cable - Positive/Starter
5	C07631	2	Battery Cable - Negative to Postive

Figure 3:
24V Negative Ground System
C32H0 MODELS ONLY



NOTE: CABLES NOT TO SCALE

CONTROLLED DRAWING (YES / NO)

CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

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PART NO.	C131885
REV	AA
UNITS	MM [INCH]
PAGE	2 OF 2