



INSTRUCTION BULLETIN

No. 3712

Machine: 480, 480EE, 1490,
490, all 5700's

Published: 2-96/00

System: ELECTRICAL

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in your machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save you the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation Instructions for Kit number 222853 (6V dry) and 222852 (6V wet)

SYNOPSIS / PROBLEM:

This kit contains the parts needed to install new replacement batteries on the machines listed above. All replacement batteries purchased after 4/3/95 will have the posts in a reverse position from the original configuration. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: 1. Battery lifting cable

(Estimated Time to complete: 1 hour)

PREPARATION:

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

1. Disconnect battery cables from machine. Remove the battery or batteries that need to be replaced.



WARNING: Always disconnect battery cables from machine before working on electrical components.

INSTALLATION FOR (480, 480EE, 1490, 490):

(Refer to FIG. 1, 2, and 3)

1. Up to four replacement batteries can be installed with the two remaining original batteries and use the battery cables in their original configuration. (Refer to Fig. 1, 2, and 3)
2. If more than four batteries need to be replaced at one time, a complete set of six should be installed. Six new batteries can be installed using the original battery cables. Two of the cables will have to be installed differently. (Refer to Fig. 2)
3. Batteries purchased between 4/3/95 and 8/3/95 may be produced without lifting ears. In this case the batteries can be lifted by the terminals.

NOTE: Lift the battery with the lifting handles provided on the battery. Use two hooks on an eye. The handles are not designed to be used with one common hook. Never physically lift the batteries--always use a lifting device.

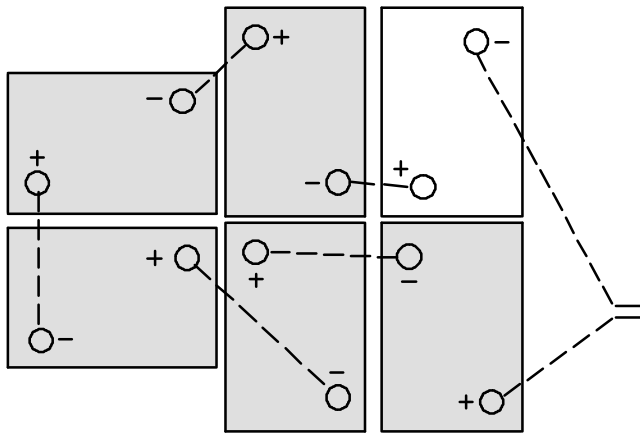
INSTALLATION FOR (5700's):

(Refer to FIG. 4 and 5)

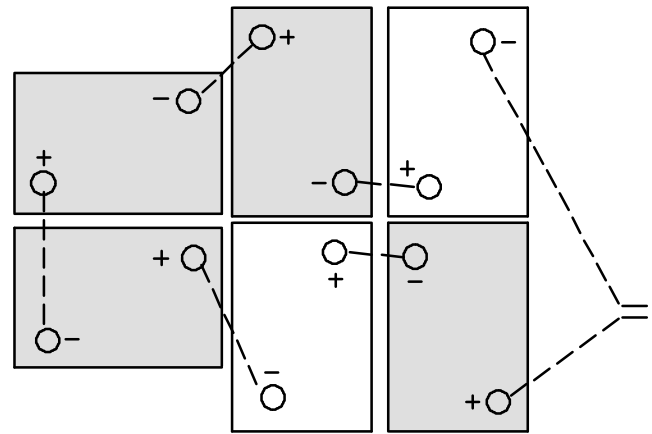
1. Install the new battery (1 - 6) in the sequence shown in FIG. 4. (Refer to FIG. 4 and 5)

NOTE: If one of the existing short (8-1/2 in. long) cables appears to be stressed, replace it with a longer (11 in. long) cable. Tennant part # 63735. (Refer to FIG. 4 and 5)

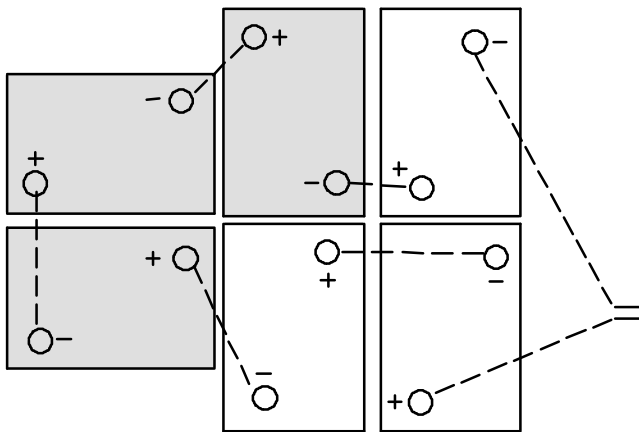
NOTE: Lift the battery with the lifting handles provided on the battery. Use two hooks on an eye. The handles are not designed to be used with one common hook. Never physically lift the batteries--always use a lifting device.



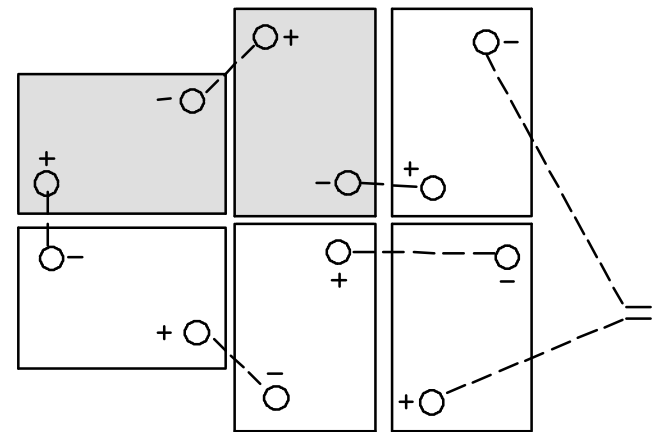
Configuration for installing **one** replacement battery



Configuration for installing **two** replacement batteries



Configuration for installing **three** replacement batteries



Configuration for installing **four** replacement batteries

DO NOT replace just 5 batteries. Order 6 so the original cables can be used.

FIG. 1 - Replacement Battery Configurations (480, 480EE, 1490, 490)

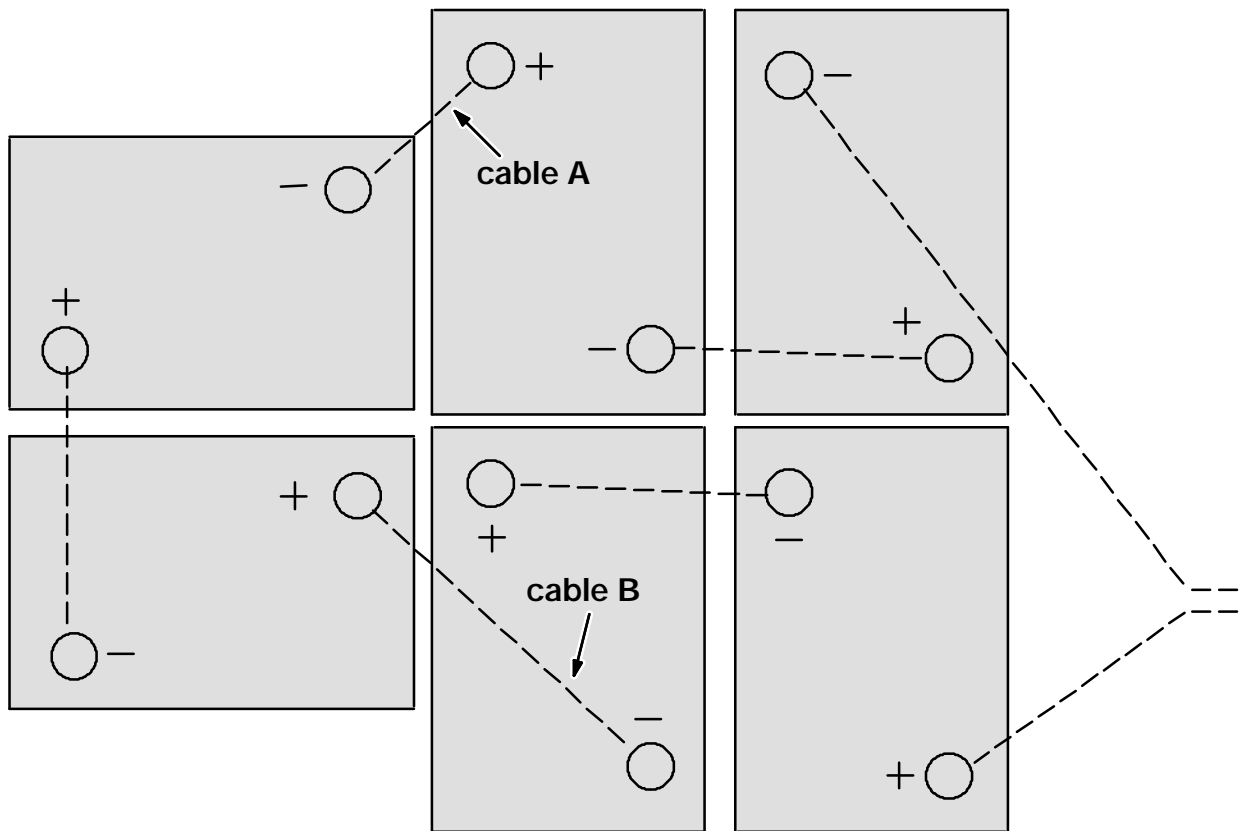


FIG. 2 - Original Battery Configuration (480, 480EE, 1490, 490)

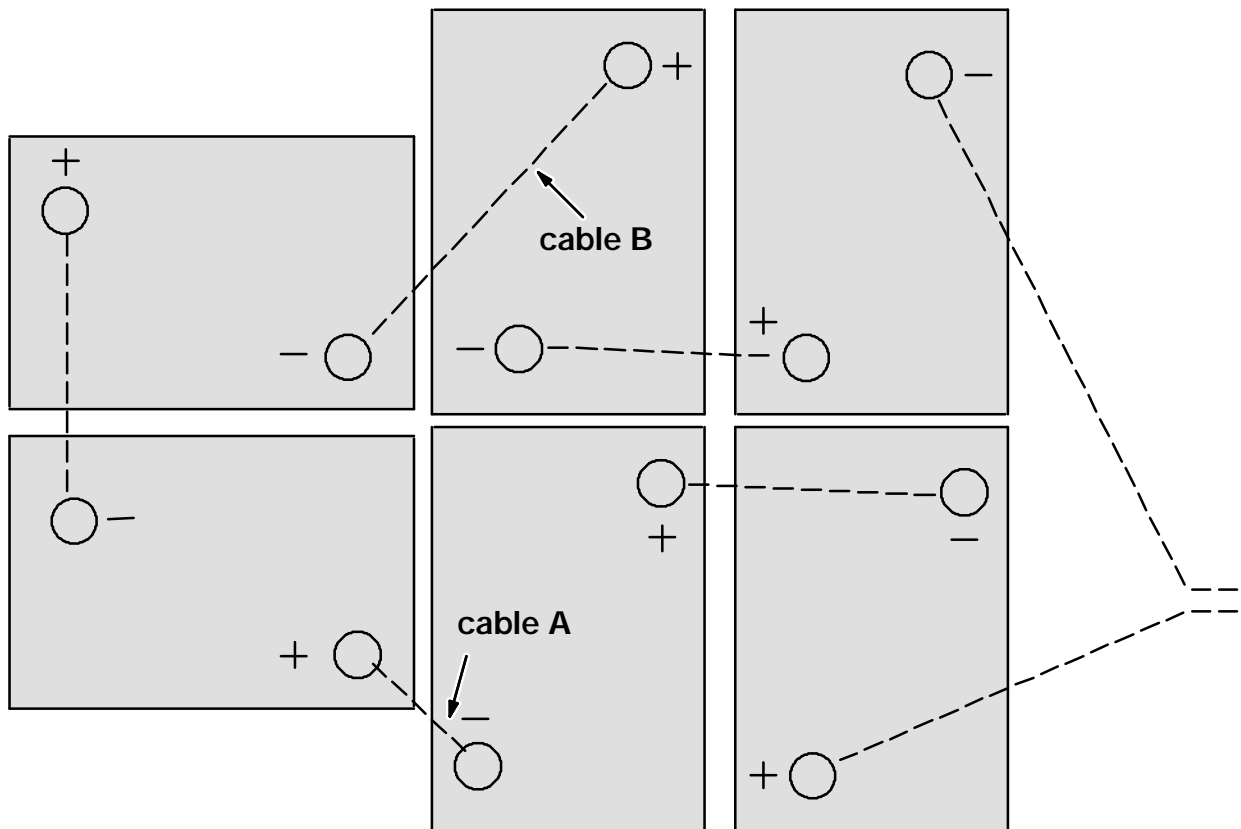


FIG. 3 - Replacement Battery Configuration (480, 480EE, 1490, 490)

NOTE: Lift the battery with the lifting handles provided on the battery. Use two hooks on an eye. The handles are not designed to be used with one common hook. Never physically lift the batteries--always use a lifting device.

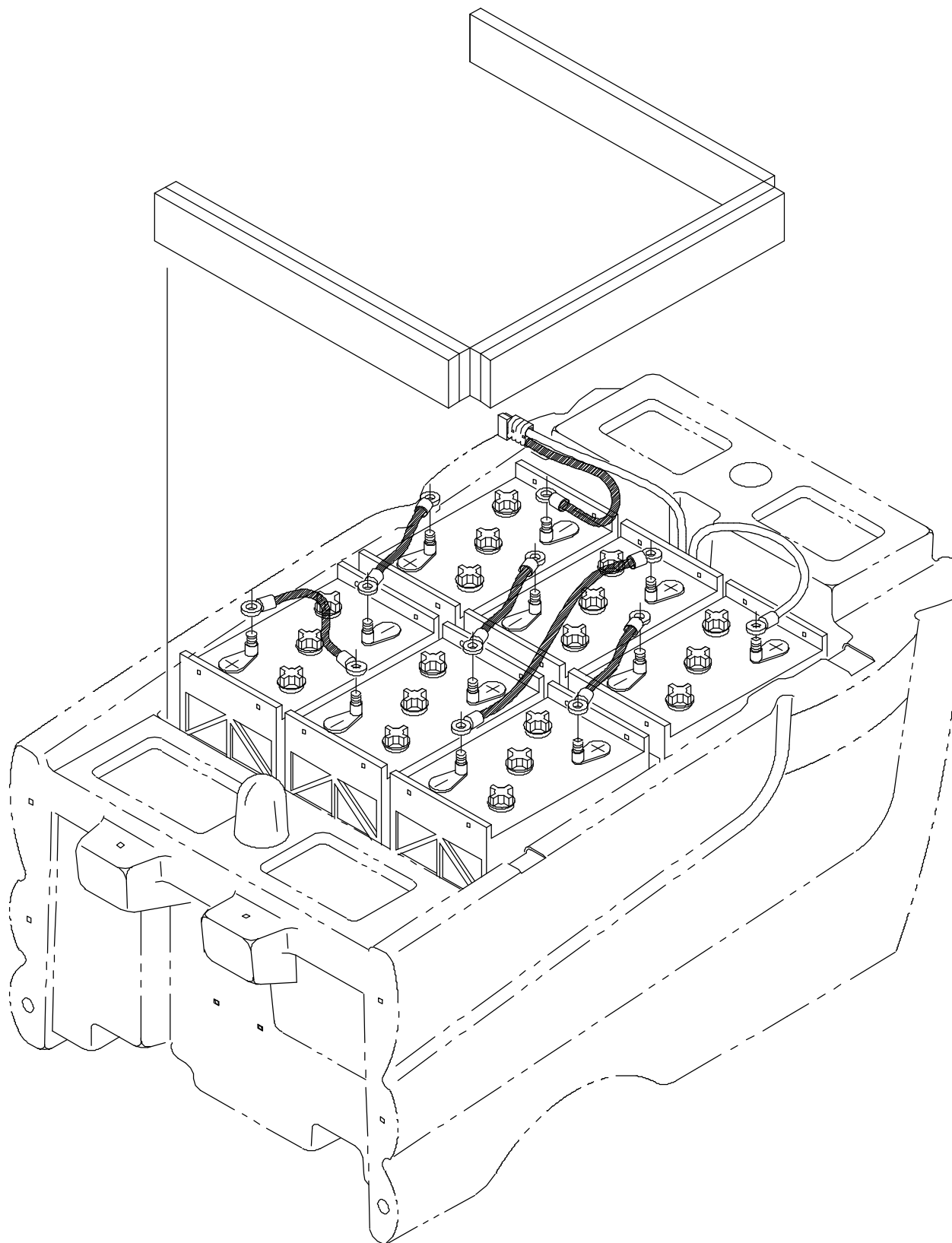
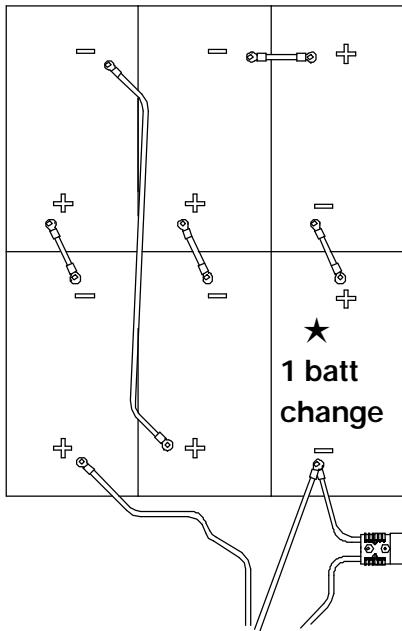


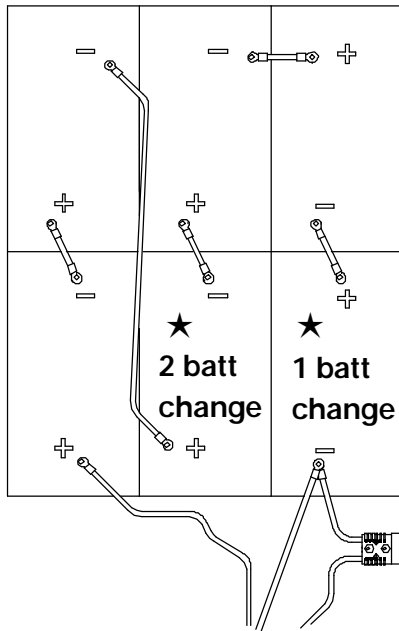
FIG. 4 - Replacement Battery Configuration (5700)

NOTE: Lift the battery with the lifting handles provided on the battery. Use two hooks on an eye. The handles are not designed to be used with one common hook. Never physically lift the batteries--always use a lifting device.

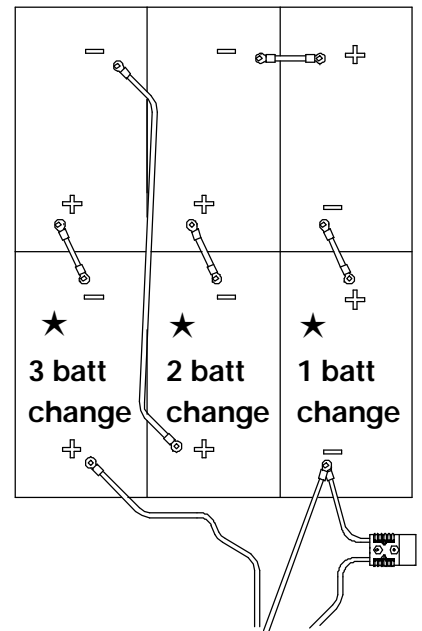
↑ FRONT OF MACHINE ↑



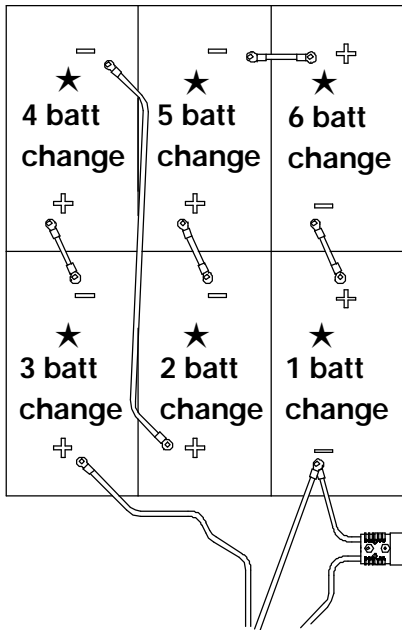
**ONE BATT.
CHANGE**



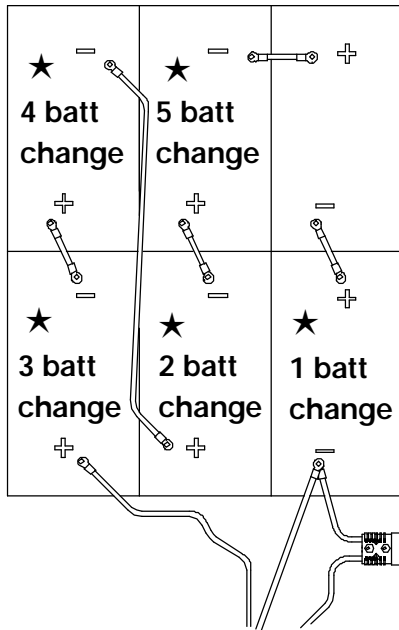
**TWO BATT.
CHANGE**



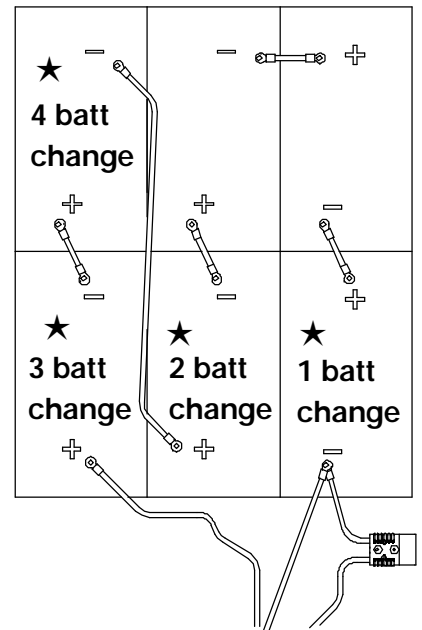
**THREE BATT.
CHANGE**



**SIX BATT.
CHANGE**



**FIVE BATT.
CHANGE**



**FOUR BATT.
CHANGE**

FIG. 5 - Replacement Battery Configuration (5700)