

# TECHNICAL DATA SHEET

## INSTALLATION PROCEDURES

SUPER CELL® SPORTS CELL® SAVER CELL®

### RACE CAR FUEL CELL INSTALLATION FOLLOW THESE STEPS IN SEQUENCE

1. Mount fuel cell between frame rails as far inboard as possible.

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2. Secure fuel cell container in a recessed well with minimum 1" x 1" square steel tubing. Consult NASCAR or FIA Rule book for optimum installation procedures.

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3. Do not insert fasteners through the fuel cell container as they could chafe bladder.

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4. Be sure fuel pickups are positioned toward the rear of the bladder to assure positive fuel feed during acceleration.

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5. For Circle Track racing, use the right side pickup. See Diagram # 1.

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6. For Road Circuits use two fuel pickups as shown in Diagram # 2. Otherwise use left pickup on clockwise tracks and right pickup on counterclockwise tracks. Don't "T" two pickups to one pump.

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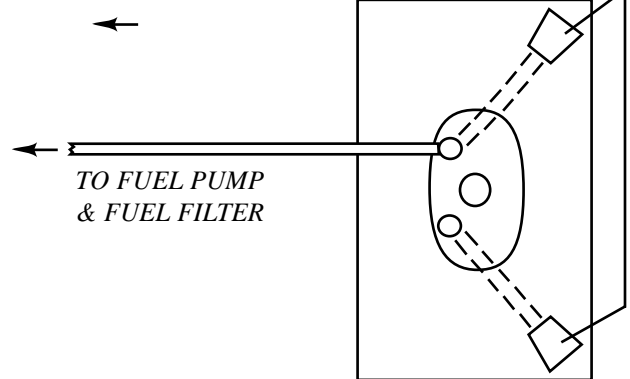
7. For Off-Road & Drag Cars use road course hookup as shown in Diagram # 2.

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**CAUTION:** Do not weld near fuel bladders. Excessive heat and weld spatter can cause fuel cell damage & create a fire.

**DIAGRAM 1**

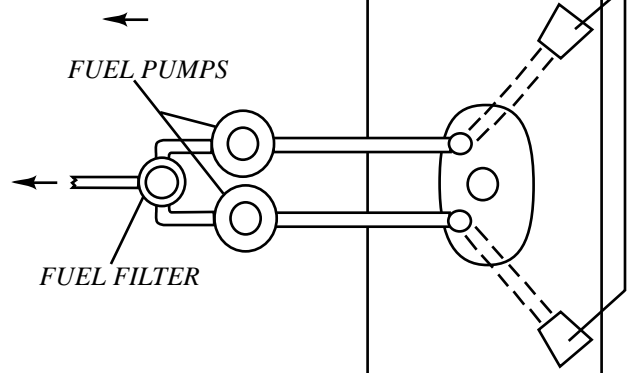
DIRECTION OF TRAVEL



SUGGESTED CIRCLE TRACK & RACE BOAT  
 HOOK UP FOR LEFT TURNS ONLY

**DIAGRAM 2**

DIRECTION OF TRAVEL



SUGGESTED ROAD COURSE & OFF ROAD  
 HOOK UP FOR RIGHT AND LEFT TURNS

INTERNAL SURGE TANKS ALSO AVAILABLE

### Remote Fill Installations

VENT TUBE  
 SEE DIAGRAM # 4

ALUMINUM TUBE

HOSE

HOSE CLAMPS

SUPER CELL  
 "200" & "300"

RECESSED FILLER  
 CAP ASSEMBLY  
 OR  
 DRY-BREAK  
 VALVE

60° FLEX  
 ELBOW

ALUMINUM  
 TUBE

HOSE

HOSE  
 CLAMPS

RECESSED FILLER  
 CAP ASSEMBLY

DRAIN

SPORTS, SAVER &  
 SUPER "100"  
 CELL

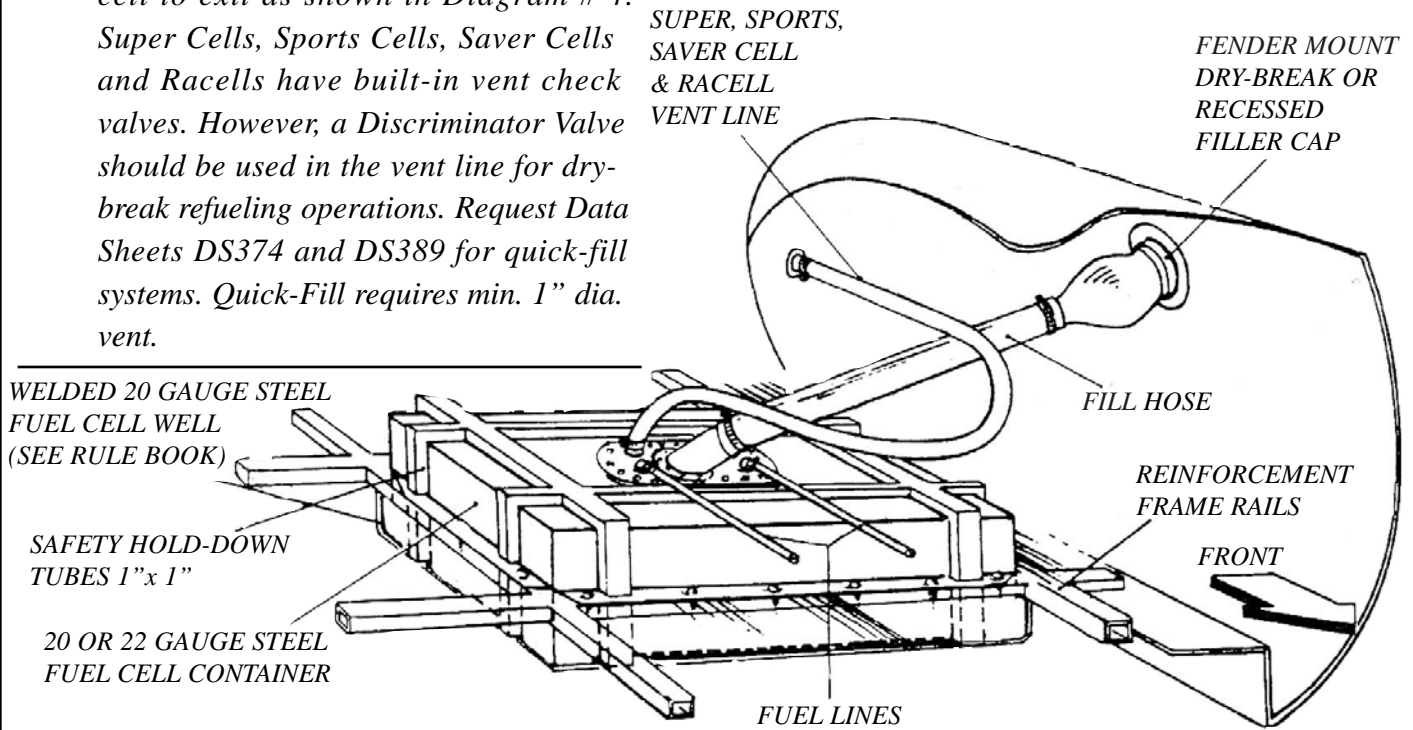
VENT TUBE  
 SEE DIAGRAM # 4

**DIAGRAM 3**

8. The vent line should loop forward of the cell to exit as shown in Diagram # 4. Super Cells, Sports Cells, Saver Cells and Racells have built-in vent check valves. However, a Discriminator Valve should be used in the vent line for dry-break refueling operations. Request Data Sheets DS374 and DS389 for quick-fill systems. Quick-Fill requires min. 1" dia. vent.

**DIAGRAM  
4**

**TYPICAL INSTALLATION**



**FITTING PLATE MOUNTING  
SUPER, SPORTS & SAVER CELLS**

To mount fitting plate assembly to fuel bladder, see Diagram # 5 and:

1. Position Duck Foot fuel pickup and strainer underneath foam and locate in rear corner of bladder.
2. Holding plate to within 2" of bladder, tighten swivel hose-end(s) to bulkhead fitting(s) on fitting plate.
3. Position gasket under plate.
4. Secure fitting plate to nut-ring using the 1/4"x 28 bolts, sealing washers & break-away tabs supplied.

5. Tighten bolts firmly with 7/16" wrench (40 in. lb. torque).
6. To remove plate -reverse procedure. Be careful not to dislodge pickup when lifting off fitting plate. Always flush cell with water before any disassembly.
7. Fuel fittings on ATL cells are standard "AN" type components. All matching couplings should be either "AN" aircraft type or J.I.C. hydraulic fittings (37° seat).
8. See also sheets #DS-403 Assembly Cutaway and #DS-447 Assembly Instructions.

**DIAGRAM Section View - Through Nut-Ring & Fitting Plate** SUPER CELL® SPORTS CELL® SAVER CELL®  
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