655 Epoxy Adhesive General Use

- Avoid skin contact with resin, hardener or mixed adhesive. Wear liquid-proof to keep the epoxy off your skin.
- Avoid eye contact with resin, hardener or mixed adhesive. Wear protective glasses. In case of contact with eyes, flush with water for 15 minutes and consult a physician.
- Avoid inhalation of vapors. Provide adequate ventilation. Wear a dust mask when sanding epoxy, especially epoxy that has not fully cured.
- Read and follow safety information on resin and hardener containers.

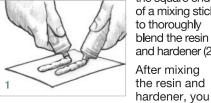
Starting Out

Puncture the seal in each tube with the point in the top of the cap. Enlarge the opening as necessary to improve flow.

Before mixing epoxy, gather all necessary application tools, clamps and equipment. Check all parts for proper fit and be sure all surfaces to be glued are properly prepared.

Mixing and Curing

and Hardener onto a mixing pallet (1). Use materials. For best adhesion to most



After mixing the resin and hardener, you will have about 45 minutes, at 72°F (22°C), to apply the mixture before it begins to gel

the square end

of a mixing stick

and hardener (2).

and up to 75 minutes to

assemble and clamp parts after it is initially applied. At 72°F (22°C), the adhesive mixture will solidify in 3-4 hours and reach a workable cure in 7-10 hours. The adhesive may be sanded. clamps can be removed, and joints can be moderately loaded. Wait 24 hours before subjecting joints to high loads.

G/flex 655 Epoxy Adhesive cures faster in warmer temperatures and slower in cooler temperatures. When a guicker cure is desired, apply moderate heat to aloves and adequate protective clothing substantially reduce cure time. Cure time is reduced by half with each 18°F (10°C) increase in temperature.

> G/flex 655 will cure in temperatures as low as 40°F (4°C), but cure very slowly. When using 655 at lower temperatures, it is a good idea to warm resin and hardener to room temperature for easier dispensing and mixing.

Curing epoxy generates heat. Thicker layers of 655 generally cure a little faster than thinner layers, as this heat is concentrated in thicker layers and dissipated in thinner layers.

Cleanup

Clean uncured epoxy from skin with a waterless skin cleaner, followed by washing with soap and water. Remove excess epoxy from work surfaces with the flat end of a mixing stick or with paper towels. Clean up residue with alcohol, citrus-based cleaner or a solvent such as lacquer thinner or acetone.

Basic Surface Preparation

Dispense equal volumes of G/flex 655 Resin G/flex 655 Epoxy will bond to many different materials, bonding surfaces should be:

> CLEAN-Remove loose, chalky or flaky coatings, and contaminants such as grease, oil, wax, and mold release. Clean contaminated surfaces with an appropriate solvent applied with plain white paper towels. Wipe the surface with a clean, dry paper towel before solvent dries. Do not use laundered rags to apply or remove solvents as they may contaminate the surface with fabric softener residue.

SANDED—Sand non-porous and smooth surfaces with 80-grit aluminum oxides and paper to provide good texture for the epoxy to "key" into. Brush away sanding dust. Refer to the chart (right) for recommendations.

DRY—Although G/flex 655 Epoxy can be used to bond damp and wet surfaces, maximum adhesion will be achieved when bonding to dry surfaces.

Additional Surface Preparation Plastics

PVC

HDPE, LDPE plastic

Polycarbonate (Lexan™)

Sand or grit-blast the surface to expose bright metal.

Clean the area with acetone or lacquer thinner using white paper towels. Allow the surface to dry completely.

Abrade through wet epoxy-Apply a thin coat of G/flex 655 Epoxy and immediately scrub metal surfaces through the wet FLAME TREATING is a method for epoxy coating with a fine wire brush or sandpaper.

Hardwoods, Including Tropical Woods

Bonding to dry wood (between 6 and 12% moisture content) is best for achieving long-term reliable bonds. Sand mating surfaces with 80-grit parallel to the grain. Clean oily woods with a solvent such as isopropyl alcohol or acetone. Apply solvent with plain white paper towels. Wipe the surface with a clean, dry paper towel before solvent dries. Do not use laundered rags to apply While flame treating will improve adheor remove solvent.

The extent of wood failure in tensile adhesion tests indicate that tensile with proper surface preparation, approached or exceeded the grain strength of the wood in all of the woods we tested.

Clean plastics, except for polycarbonate, with isopropyl alcohol to remove contamination. Sand all plastics including polycarbonate with 80-grits and paper to provide texture for good adhesion. Flame treat ABS and PVC for additional benefit.

HDPE (high-density polyethylene) and LDPE (low-density polyethylene) must be flame treated for good adhesion.

improving adhesion to plastics by quickly passing the flame of a propane torch across the surface after it is cleaned and sanded. Allow the blue part of the flame to touch the surface. Keep it moving at the rate of 12 inches per second.

No obvious change takes place, but the flame oxidizes the surface and dramatically improves adhesion. Make multiple passes of the torch 3/4" apart to treat wide areas. Be careful not to melt or burn the surface.

sion to most plastics, it appears to provide the greatest benefit to polyethvlene (HDPE and LDPE). If you are adhesion achieved using G/flex 655 Epoxy, unsure of the type of plastic, it doesn't hurt to flame treat.

Flame treat required

Material Additional surface preparation Basic surface preparation Fiberglass laminate As necessary Aluminum Abrade with 80-grit sandpaper Remove soft and loose surface material Steel-galvanized Remove contamination with solvent wipe Wire brush through wet epoxy Copper Sand with 80-grit Bronze sandpaper Lead Ipe Teak Isopropyl Alcohol wipe White oak Sand with 80-grit sandpaper parallel to grain Walnut Purpleheart None Greenheart ABS Isopropyl Alcohol wipe Flame treat

Sand with 80-grit

Sand with 80-grit

Surface preparation for various dry materials

Bonding

Apply the epoxy mixture to all properly prepared mating surfaces. Apply enough epoxy to fill voids and bridge gaps on uneven mating surfaces.

Clamp the components in position before angles, fillets can be used to add considthe epoxy begins to gel—about 75 minutes at 72°F (22°C). Use just enough clamping pressure to squeeze a small amount of epoxy out of the joint, Leaving some glue in the joint increases bonding strength. Allow the epoxy to cure thoroughly before stressing the joint.

Use a spreader or notched trowel to apply G/flex 655 to larger surfaces prior to clamping. Use a pipe cleaner or syringe to apply adhesive to hard to reach areas such as cracks and fastener holes when bonding hardware.

Bonding to wet surfaces and surfaces underwater

While gluing to a dry and properly pre-pared surface is best for producing reliable long-term bonds, gluing to damp, wet and even underwater surfaces is possible.

Abrade bonding surfaces with 80-grit sandpaper.

Mix an appropriately sized batch of G/flex 655 Epoxy Adhesive. Forcefully apply the 655 onto the bonding surfaces with a plastic spreader or stiff brush to displace water in the scratches and pores at the bonding surface.

Bring the mating surfaces together and apply just enough clamping pressure to squeeze out excess adhesive and moisture.

If one bonding surface is dry, apply extra adhesive to it, so excess will displace water using a plastic spreader. When the fabric at the bonding surface. It is important that and substrate have been saturated, use significant excess adhesive squeezes from the spreader to smooth and remove the joint for proper bonds to form.

Gluing Things to Plastic Boats

G/flex 655 is a toughened epoxy adhesive designed to bond to many different materials in addition to plastic. Joint strength—the ability to adequately transfer a load from one part, one material, to another—depends on the combined effects of three factors.

GLUE STRENGTH—Careful metering and thorough mixing will assure the epoxy adhesive mixture cures to full strength.

ADHESION—For the best adhesion, the joint's bonding surfaces must be properly prepared. Refer to the chart on the left for the proper surface preparation for the plastic and the material you are gluing to it.

Allow to cure 7-10 hours before remov-

When parts are joined at or near right

erable strength to the joint by increasing

the surface area

of the bond.

Make fillets by

of G/flex 655

corner of the

epoxy into a

cove section

applying a bead

along the inside

joint. Form the

using the round

end of a mixing

stick (3). Clean

off the excess

epoxy with the

beveled end of

the mixing stick

a load on the joint.

Making Fillets

before the epoxy gels (4).

Light weight fiberglass fabrics and tapes

(4-9 oz/sq yd range) can be used with G/flex

ment is desired to add stiffness or abrasion

655 Epoxy Adhesive when fiber reinforce-

resistance, or to patch a damaged area.

Cut the fabric to fit the area. If heavier

reinforcing is desired, use multiple thin

lavers rather than a single thick laver.

Properly prepare the surface before

Coat the substrate with 655. Lav the

fabric in position on the wet adhesive.

Spread mixed adhesive on to the fabric

excess epoxy. Repeat the process with

Fiberglassing

applying fabric.

additional layers.

ing clamps and 24 hours before applying

JOINT AREA—The bonding area of the joint must be adequate for the load on the joint and materials being joined. Increased overlap, scarf joints, fillets and reinforcing fibers can be used to increase the joint bonding area.

G/flex 655—a West System® Epoxy

experimentation to develop a toughened absorb the stresses of expansion, epoxy that was simple to use, viscous enough not to drain out of a joint, and would adhere tenaciously to a variety of materials under difficult conditions.

G/flex 655 is all that, and more. It is a marine-grade glue that can be accurately mixed in small batches with a simple 1:1 mix ratio. It has the advantage of a long open working time and a relatively short cure time.

G/flex 655 is, first of all, a high-strength epoxy—designed for permanent, waterproof, structural bonding. Further more, G/flex has a modulus of elasticity of 150,000 psi, giving G/flex the tough-

WEST SYSTEM Reliability

performance and reliability.

While G/flex offers physical properties

and applications that are different than

of marine epoxy, created by Gougeon

formulators who literally wrote the book

the engineering and chemistry required

mance composite structures. It requires

programs, skillful shop work and direct

structures. This experience and dedica-

System another quality that sets it apart

For forty years, reliability has been the

the highest standards of quality assur-

resins and hardeners. This means that

SYSTEM Resin and Hardener, including

G/flex Resin and Hardener, will cure as it

is supposed to, everytime. This commit-

ment to quality has earned certification to

every properly mixed batch of WEST

the ISO9001:2008 standard. West

System is your reliable solution.

hallmark of WEST SYSTEM. We adhere to

ance in our formulating and manufactur-

ing practices, from raw material qualifica-

tion to testing and certification of finished

experience with today's high-perfor-

mance boats and other engineered

tion to performance has given WEST

from other brands of epoxy.

to formulate epoxies for high-perfor-

thorough research, rigorous test

on wood/epoxy boat building. We know

Brothers—sailors, boatbuilders, and

G/flex 655 Epoxy is the result of years of ness to make structural bonds that can contraction, shock, and vibration.

> G/flex adheres tenaciously to difficult-toglue hardwoods and even has the ability to glue damp woods.

G/flex is ideal for bonding a variety of other materials, including dissimilar ones—metals, plastics, glass, masonry, and fiber-glass. It can be used to wet out and bond fiberglass tapes and fabrics.

We encourage you to read these instruction and then experiment with G/flex. We think you will find many projects for which the particular properties of G/flex are ideally suited.

Outstanding Customer Service

G/flex 655 Epoxy is the latest addition to West System provides you with somethe West System line of epoxy products. thing else as reliable as our epoxy-knowledge. Whether your project is large or small, the WEST WEST SYSTEM 105 Resin-based epoxies, SYSTEM Technical Staff and comprehenthey share the same high standards for sive instructional publications will help assure the success of your building and WEST SYSTEM is the worlds leading brand repair project. WEST SYSTEM is renowned for its outstanding customer service.

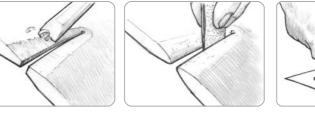
> The West System website provides basic product information, dealer locations and links, project articles and galleries, and safety information. Visit westsystem.com.

Further assistance can be obtained by contacting the friendly and knowledgeable Technical Staff. Send e-mail to tech-support@westsvstem.com or call 866-937-8797 (toll free).

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PLASTIC BOAT Repair Kit



Repair Plastic Boats

Step-by-step instructions show you how to use the materials in this kit to repair splits, cracks and small holes in plastic canoes, kavaks and other small boats, G/flex Epoxy is compatible with Krylon® Fusion™ or Rust-oleum® Universal All Surface™ paint to match existing finishes.

Tools Required

In addition to the materials in this kit, you will need a propane torch, a sabre saw or hack saw, scraper or chisel, clamps, 80-grit sandpaper, 2"-wide packaging tape, plastic spreader, paper towels, color matched plastic-compatible paint and laquer thinner or acetone as necessary for clean up.

Repairs Requiring Additional Materials

With the addition of 4–6 oz. fiberglass or Keylar[™] fabric and a plastic spreader, you can create abrasion resistant surfaces on worn stems and bottoms and repair larger holes. Instructions are included.

Repairs to Inflatable Boats

Patch air leaks, re-bond attachment points, repair delaminated transoms and damaged floors, Instructions are included.

Kit Contents

4.2 fl. oz. G/flex 655-A Resin, 4.2 fl. oz. G/flex 655-B Hardener (9 fl. oz. mixed epoxy), 2 reusable mixing sticks/applicators, 2 pair disposable neoprene gloves, mixing palettes and complete handling and repair instructions.

WARNING MAY CAUSE IRRITATIOIN TO EYES AND SKIN, MAY BE HARMFUL IF SWALLOWED, MAY CAUSE ALLERGIC REACTION, Avoid skin and eve contact, Do not ingest, Use with adequate ventilation, Use with liquid-proof gloves, eye protection and protective clothing.

FIRST AID SKIN CONTACT - Immediately wash with soap and water. EYE CONTACT - Immediately flush with water for at least 15 minutes. Consult physician. INHALATION - Remove to fresh air. Consult physician if coughing or irritation develops, INGESTION – Do not induce vomiting. Get immediate medical attention.

WARNING This product can expose you to chemicals, including epichlorohydrin, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

CONTAINS: 650-A Resin contains: Propane, 2,2-Bis[p-(2,3-epoxypropoxy)phenyl]-, polymers; phenol-formaldehyde polymer glycidyl ether. 650-B Hardener contains: Amine terminated copolymer; cashew nutshell liquid and hydroxyl ethyl ethes; tris-2,4,6-(dimethylaminomethyl)phenol reaction products with triethylenetetramine; triethylenetetramine; tris-2,4,6-(dimethylaminomethyl)phenol; aminoethylpiperazine; 1.3-benzenedimethanamine: tetraethylenepentamine, 406 Adhesive Filler contains; amorphous silica,

KEEP OUT OF REACH OF CHILDREN



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Plastic Boat Repair

Plastic canoes and kayaks are most often made of thermoformed plastics like HDPE (high-density polyethylene), ABS, and occasionally PVC. G/flex Adhesive bonds to these materials and is used to repair damage to products made of these materials. Refer to the safety and general use information on the reverse side of this sheet.

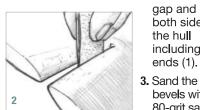
Repair Splits and Cracks in Plastic Boats

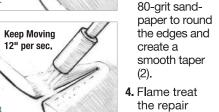
ing on whether you will have access to the back side of the repair area. Repairing splits and cracks with this kit and the following items:

- ☐ Sabre saw or hack saw
- ☐ Chisel, knife or other sharp scraper
- □ 80-grit sandpaper
- ☐ 2"-wide packaging tape
- ☐ Propane torch
- ☐ Matching spray paint (optional) Repair with Access to Both Sides

1. Drill a 1/8" diameter hole at the ends of the crack. Open the crack or split with a saber saw or hack saw blade to create a slight gap in the break.







4. Flame treat the repair area to improve adhesion as described in

2. Bevel the

edges of the

crack with a

sharp tool to

create a 3/8"

to ½" wide

sides of the

gap and on

the hull

ends (1).

bevels with

both sides of

including the

bevel on both

Additional Surface Preparation on the reverse side of this sheet (3).

5. Mix an appropriately sized batch of G/flex 655 Adhesive, Refer to Mixing and Curing on the reverse side of this sheet.

The repair procedure will differ depend- 6. Apply mixed G/flex to one side of the beveled joint, over filling it slightly.

adhesive-filled

ioint with 2"

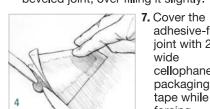
cellophane

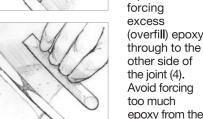
packaging

tape while

taped side.

wide





- 8. Fill the beveled area on the opposite side of the repair with more G/flex 655 Use the side of the mixing stick to feather the edges flush with the surrounding surface and scrape away excess epoxy (5).
- 9. Clean uncured epoxy residue with a paper towel and acetone or lacquer thinner. Allow G/flex to cure 7–10 hours before removing packing tape.
- 10. Remove high spots and smooth the surface with a scraper or sandpaper.
- 11. Wipe the area with water, dry thoroughly and paint with a plastic-compatible paint like Krylon® Fusion™ or Rust-oleum® Universal All Surface[™] paint if desired.

the edges and Repair with Access to One Side Only

1. Drill a 1/8" diameter hole at the ends of the crack.



2. Bevel the edges of the crack with a sharp tool to create 3/4" to 1" wide bevels on both edges of the crack and at each end (6).

3. Flame treat the repair area to improve adhesion as described in Additional Surface Preparation on the reverse of this sheet.



4. Mix an appropriately sized batch of G/flex Refer to Mixina and Curing on the reverse side of this sheet.

- 5. Apply adhesive to the beveled joint, overfilling it slightly. Use the side of the mixing stick or plastic spreader to feather the edges flush with the surrounding surface and scrape away excess epoxy (7). Add more epoxy as needed to fill low areas. Allow to cure 7-10 hours.
- 655 Adhesive. 6. Remove high spots and smooth the surface with a scraper or sandpaper.
 - 7. Wipe the area with water, dry thoroughly. Sand with 180-grit sandpaper and paint with a plastic-compatible paint if desired.

Repair Holes in Plastic Boats

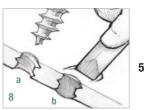
Canoes and kayaks can be punctured as 8. Wipe the area with water, sand for a result of impacts with rocks and other sharp objects. Repair holes with G/flex 655 Epoxy and the following items not included in this kit:

- □ 80-grit sandpaper
- ☐ 2"-wide packaging tape
- ☐ A propane torch
- ☐ Matching spray paint (optional)

Repair techniques can vary depending on hole diameter and accessability. The goal is to replace the missing material with G/flex 655 Epoxy and providing adequate bonding area.

Repair Holes up to ¼" Diameter

- 1. Drill out the hole with the smallest diameter bit that bridges the hole.
- 2. Run a slightly larger sheet metal screw into and out of the hole to tap threads on the inside of the hole (8a).
- 3. Apply a piece of packaging tape or duct tape over the back of the hole to prevent epoxy from squeezing through the hole.
- 4. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing



scraper or sandpaper.

on the reverse side of this sheet. 5. Apply the

adhesive to the void, overfilling it slightly (8b). Allow to cure 7-10 hours

6. Remove excess cured epoxy and

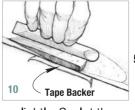
better adhesion and paint with a plastic-compatible paint if desired.

Repair Holes Over 1/4" Diameter



the repair area to improve adhesion as described in Additional Surface Preparation on the reverse side of this

- Apply a piece of packaging tape over the back of the hole to prevent epoxy from squeezing through the hole. Tape a piece of cardboard or other stiff material to the back of the hole if necessary to maintain the shape of the hull.
- 4. Mix an appropriately sized batch of G/flex 655 Adhesive, Refer to Mixing



sheet. 5. Apply the adhesive to the void. overfillina it

and Curing on

the reverse

side of this

slightly. Sculpt the uncured G/flex to match the curve of the hull (10), Allow to cure 7-10 hours.

6. Remove excess cured epoxy and shape the surface to suit with a cabinet scraper, or sandpaper.

shape the surface to suit with a cabinet 7. Wipe the area with water, dry thoroughly. Sand with 180-grits and paper and paint with a plastic-compatible paint.

Repair Worn Surfaces/Create Skid Plates

Repair and extend the life of plastic canoes and kayaks by applying reinforcing fabric wear strips along the keel and stems to patch worn holes and provide abrasion resistance. Reinforce and patch worn areas with G/flex 655 Epoxy and the following items not included in this kit:

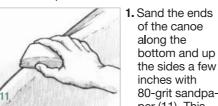


2. Flame treat the repair area to improve adhesion as described in Additional

- Surface Preparation on the reverse of this sheet. 3. Cut three or four layers of lightweight fiberglass or Kevlar fabric to cover the
- sanded areas. Cut the bottom piece of fabric to fit to the sanded/flame treated boundary. Trim each successive layer an inch or two narrower and shorter than the previous. This tapers the thickness of the fiberglass skid plate/patch toward the edges so it will easily deflect and cling to the hull as it flexes.
- 4. Place packaging tape or duct tape across

the back of large holes if nece-ssary, to

- ☐ 80-grit sandpaper
- ☐ A propane torch
- □ 4–6 oz. fiberglass or Kevlar[™] fabric ☐ Matching spray paint (optional)
- ☐ Plastic spreader



inches with 80-grit sandpaper (11). This area will define the size of the skid plate

support the repair during cure. 5. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this

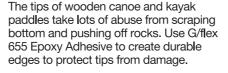
- 6. Apply a coat of epoxy to the sanded/flame treated area. Lay the largest
 - piece of fabric onto the adhesive. Apply more adhesive to saturate the fabric. If necessary, warm the epoxy with a heat gun to lower the viscosity and improve
 - wet out in cooler temperatures. Use the side of the mixing stick or a plastic spreader to smooth the fabric and



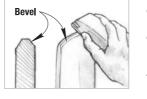
remove excess epoxy.

- smaller laver on the one before it. Wet out the fabric, and then use a spreader to smooth the fabric and remove excess epoxy (12).
- 8. Apply a coat of G/flex 655 to fill and smooth the edges of the fabric while the fiberglass application is still tacky (optional). Allow to cure 7-10 hours.
- 9. Remove excess cured epoxy and shape the surface to suit with a scraper, file, or sandpaper.
- 10. Wipe the area with water, sand for adhesion and paint with a plasticcompatible paint if desired.

Paddle Tip Reinforcement



1. Sand the tip of the paddle with 80-grit sandpaper to



expose fresh material and create a 45° bevel on both sides of



and build up a thick layer that covers the beveled edges and extends the length of the tip. Allow the epoxy to cure.

3. Sand the cured epoxy to shape with 80-grit sandpaper. Apply varnish or paint as desired.

Inflatable Boat Repair

There are four common problems associated with inflatable boats that can be resolved with G/flex Epoxy:

- 1. Attach/re-attach accessories
- 2. Transom damage and de-lamination
- 3. Stripped fasteners
- 4. Small air leaks in tube chamber

Repair Accessory Attachment Pads

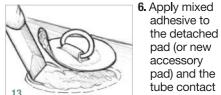
Accessory attachments such as oar locks, tow rings and hand holds are mounted to larger flexible base pads which provide a generous bonding area to the inflated tubes. Rub strakes are glued directly to the tubes. They usually begin failure gradually, peeling from one edge and will detach completely if neglected. Accessory pads and rub strakes can be reattached and new ones attached with G/flex 655 Epoxy and the following items not included in this kit:

- □ 80-grit sandpaper
- ☐ Masking or packaging tape
- ☐ Acetone solvent

Inflatable tubes should be filled to the designed pressure. If that is not possible, lay the tube flat so no wrinkles exist.

1. Mark the location where the pad will be reattached (or attached) and mask off the area outside of the pad to protect adjacent surfaces.

- 3. Clean the contact areas on the pad and the tube with acetone to remove the previous adhesive.
- 4. Abrade contact surfaces with 80-grit sandpaper. Hand sand in all directions so surfaces are evenly abraded.
- 5. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.



7. Cover pad with plastic (food wrap) film then place a soft cushion-like material such as a sponge over the pad then exert mild force with a weight or wraps of tape to insure full and even contact until epoxy cures, (7-10 hours),

Repair Transom Damage

Fixed plywood transoms on inflatable boats usually rest in a channel fitted to pads glued to the tubes. Forces exerted from out board motors often cause delamination of the plywood or degradation from rot especially around the motor mount locations. Repairs range from gluing delaminated plywood back together to replacing the transom with new plywood.

Repair Delaminated Plywood

- 1. Open up delaminated plywood with wedges or chisels.
- 2. Dry the wood thoroughly.
- 3. Clean debris and loose wood from gaps that would prevent the veneers from closing tight.

4. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.



into the depth of the separations (14). Remove

pad (or new

pad) and the

tube contact

surfaces (13).

accessory

wedges and clamp lightly (15). Clean up excess epoxy and allow to cure 7-10 hours before

Replace Damaged Plywood

- 1. Remove the transom from retaining channel.
- 2. Clean this channel thoroughly.
- 3. Locate new plywood of the same type and thickness as used in the original transom.
- 4. Use the old transom as a pattern. If you can't get plywood thickenough, laminate multiple pieces of thinner plywood and bond together with the epoxy.
- 5. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.



after shaping seal the edges of the plywood with 655 Adhesive

to seal end grain (16).

7. Sand smooth, then bond new transom into the channel using G/flex 655.

Repair Enlarged and Stripped Fastener Holes

Folding floor boards often have issues with
Procedure for Stripped Fastener Holes hinge fasteners separating from the boards.

1. Dry the stripped screw holes. Usually, the fasteners are simply stripped.

Procedure Enlarged Fastener Holes

- 1. Dry the screw holes.
- Curing on the reverse side of this sheet.
- 3. Fill the holes with G/flex 655 Epoxy.
- 4. Insert and lightly tighten the fastener. Clamp it if necessary to hold it in place. Allow to cure overnight before

2. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and

Curing on the reverse side of this sheet.

- 2. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and
- applying load.

- 3. Fill the holes with G/flex 655 Epoxy and allow to cure 7-10 hours (17a).
- 4. Drill a smaller pilot hole and screw the fastener into it (17b).

Repairing Pinhole Leaks

Pinhole leaks in tube chambers typically occur from punctures and abrasion. The repair is similar to reattaching a delaminated accessory pad using the following materials not included in this kit:

- ☐ 80-grit sandpaper
- ☐ Masking or packaging tape
- 1. Locate exact location while inflated. Apply 50/50 mix of water and liquid soap over the suspected area and observe for bubbles.
- 2. Mark the location with a pencil where bubbles are created.
- 3. Dry and clean surface with acetone.
- 4. Deflate the hull and lay area of the repair flat so no wrinkles exist.
- 5. Make or buy a patch of the same material as the inflatable tube is made of and of a similar thickness.
- 6. Cut a 4" diameter round patch. Avoid corners and sharp curves.

- 7. Trace the patch size with pencil on boat's tube.
- 8. Abrade tube around leak with 80-grit sandpaper, hand sanding in all directions. Do same to the under side of the patch material.
- 9. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.



patch with plastic, then with 1/2" thick plywood to

1. Cover the

distribute weight. Place a 5-10 lb weight on top of the plywood (18)

12. Allow to cure 24 hours before inflating to the recommend pressure.

5. Force epoxy 10. Apply G/flex 655 to the tube and



