

**ZODIAC SEATS FRANCE**  
**COMPONENT MAINTENANCE MANUAL**  
**3134-SERIES**

**CAUTION :** USE ONLY SPECIFIED MATERIALS OR THEIR EQUIVALENT. MATERIALS THAT ARE NOT SPECIFIED CAN DAMAGE THE SURFACE PROTECTION.

**CAUTION :** DO ALL THE WORK WITH A FULLY CLEAN WORKBENCH, TOOLS AND PARTS.

**SUBTASK 25-03-70-160-001-A01**

(1) Polycarbonate/ABS fairing

**CAUTION :** CLEANING AGENTS WITH CHLORINATED SOLVENTS, METHYLATED SPIRIT, ACETONE AND/OR STRONG DETERGENTS WITH HIGH AMMONIA OR ALKALINE CONTENTS ARE STRICTLY FORBIDDEN. STEAM CLEANING IS STRICTLY FORBIDDEN. THE USE OF ABOVE MENTIONED PRODUCT OR PROCEDURE WILL AFFECT THE MATERIAL PROPERTY, THEN IT BECOMES BRITTLE.

- (a) Extreme care should be taken in cleaning all plastics. Alcohol or bleaches based agents will never have to be used to clean any plastic materials.
- (b) Clean all plastic surfaces with a mild soap (Ph < 7) and water solution.
- (c) Mix soap with water to obtain the desired concentration according to the strength needed for cleaning purposes.
- (d) Apply the solution directly to the surface and rub with a clean cloth to loosen any dirt and debris.
- (e) Rinse with clear water, then wipe off with a dry cloth.

**SUBTASK 25-03-70-160-002-A01**

(2) Upholstery cleaning procedures (seat covers and FBL)

**NOTE :** For woollen fabrics (carpet included), machine cleaning process (washing) must be avoided to prevent shrinkage. Dry cleaning is recommended. In case of doubt, contact the fabric supplier.

(a) Machine cleaning process

1 Identification and classification of the stains

Examine the covers before cleaning in order to identify stains which are not removed by machine cleaning and therefore submit them to a pre-washing.

Machine cleaning can in fact alter these stains and make their successive elimination quite difficult.

As general criteria remember that the following stains are not directly removed in the machine and therefore require a pre-washing :

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- Coca cola, wine, blood, fruit, sweat, food.

On the contrary, machine cleaning removes stains of :

- Coffee, fats, alcoholic drinks, some kinds of ink.

Generally stains is recognized as follows :

- Coffee and ink stains for their color and neat outline.
- Wine, coca cola, alcoholic drinks and sweat stains for their extensive and shaded outline.
- Food and fat stains for their consistence.
- Fruit and blood stains are not easily recognizable.

2 Pre-washing

**NOTE:** Pre-washing is advisable for all of stains of uncertain nature.

Perform the pre-washing as follows:

- a Prepare a mixture of neptune, perchlorethylene, water with a 1: 1: 1 ratio. Quantity: about 1 l (0.2642 US gal) of mixture for 30 covers. Perform the pre-washing as described above.

3 Preparation of covers

The adhesive stripes of all covers must be covered in order to prevent fraying of fabric at the end of the cleaning phase.

4 Preparation of the machine

At least once a day it is necessary to perform the following operations:

- a Regenerate the perchlorethylene through distillation.
- b Add, directly in the reservoir, 1 l (0.2642 US gal) of the pure additive used in pre-washing to every 100 l (26.42 US gal) of perchlorethylene.

5 Washing phase

Before each load of covers add one of the following additives to the perchlorethylene, directly in the drum:

- a Neptune: prepare a mixture of additive, alcohol water in a ratio of 1: 1: 1, for 1,5 l (0.3963 US gal) of mixture for every 20 kg (44 lbs) of covers to be washed.

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**NOTE:** The additive introduced in the drum must be the same as the one used for the pre-washing.

- b Mix the perchlorethylene and the mixture before introducing the covers, in order to facilitate the dispersion of the additive in the solvent.
- c Load the drum with the covers, make sure that the adhesive stripes are covered. The quantity of covers must not be over 80% of the machine maximum operation load.
- d Wash for five minutes at room temperature.
- e Spin for 3 minutes, do not exceed 500 r.p.m.
- f Rinse for 5 minutes with pure solvent at room temperature.
- g Dry the covers, do not exceed the temperature of 60°C (140°F).

6 Control and repetition of treatment

Check the covers, one by one, to separate those which still have stains. Pre-wash again the covers which still present stains per steps (2) 2) and 3). Machine wash them together with another load of the same type. The second pre-wash is essential to prevent the stain becoming even more resistant to removal.

7 Ironing and final control

The covers which have not been rejected must be ironed and must be subjected to a more accurate control, to select and return to the cycle those still having stains.

(b) Dry cleaning process

- 1 Cover all hook (male) auto agrip tapes with their counterpart (loop tape) to prevent any damages to the fabric during the dry cleaning process.
- 2 Spray the covers with a detergent activator and left for about 20 min before loaded to the dry cleaning machine. Slightly brushed heavily stained areas with a soft brush.
- 3 For the dry cleaning process, please follow the instructions of the machine supplier.
- 4 About 70 to 80% of the covers became clean during pre-treatment and dry cleaning-depending on the cleaning system and kind of staints. The spots still disable can be cleaner with a steam gun and then dry cleaning again. Before loaded to be dry cleaning machine, the fabric must be completely dry to prevent shrinkage.

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TABLE 4003: CLEANING MATERIALS

<b>STAIN</b>	<b>WHAT TO USE</b>
Alcohol, Liquors	Use shampoo and then mop with methylated spirit.
Beer	Mop with tepid water (50 °C max. (122 °F max.)) with 3% methylated spirit.
Blood	Mop with cold water, then shampoo and use 5% ammonia.
Butter, Oil, Sauce	Mop with ethylic alcohol and perchlorethylene. Use shampoo and then 5% ammonia, if stain remains.
Chewing-gum	Mop with acetone or perchlorethylene.
Chocolate	Mop with tepid water (50 °C max. (122 °F max.)) or with 5% ammonia.
Coffee, Tea	Use shampoo and methylated spirit or 10% ammonia, if stain remains.
Egg	Mop with 5% ammonia or methylated spirit, then use shampoo.
Fruits, Food	Mop with tepid water and then use shampoo.
Glue, Paints	Use ethylic alcohol or perchlorethylene, then mop with tepid water or shampoo.
Grass, Vegetables	Moisten with methylated spirit.
Ink, Coal	Use absorbent paper, then mop with a solution of 30% methylated spirit and 70% water. Use also lemon juice.
Juice, Jam	Mop with tepid water (50 °C max. (122 °F max.)), if stain remains use ethylic alcohol or perchlorethylene.
Mayonnaise, Ketchup, Mustard	Use 10% ammonia and perchlorethylene, then use shampoo.
Milk, Ice cream, Cream	Use shampoo then mop with 5% ammonia or perchlorethylene.
Mud	Let it dry up and then use vacuum- cleaner.
Shoe polish, Floor, Wax	Use ethylic alcohol or perchlorethylene. If stain remains use 5% ammonia or methylated spirit.

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TABLE 4003: CLEANING MATERIALS (...)

STAIN	WHAT TO USE
Sugar	Mop with tepid water and then use shampoo.
Tar	Mop with methylated spirit or perchlorethylene, then use shampoo.
Vomit, Urine, Ordures	Mop with water and 50% vinegar or methylated spirit, then use shampoo.
Water	Absorb with a cleaned cloth and let it dry up. Use shampoo or alcohol on eventual rings.
Wax, Paraffin	Put on the seat absorbent paper and iron it. Mop with perchlorethylene and then use shampoo.
Wine, Drinks	Use a solution of 50% vinegar and then shampoo.

**SUBTASK 25-03-70-160-003-A01**

(3) Metal parts

Moisten a clean, dry cloth with dry cleaning solvent and thoroughly, wipe metal parts completely clean. Repeat as required to remove stubborn accumulations of dirt and grease. Dry with a fresh, clean, dry cloth.

**SUBTASK 25-03-70-160-004-A01**

(4) Fabric-backed vinyl

**WARNING: KEEP CLEANING SOLVENT AWAY FROM SPARKS OR OPEN FLAMES. PREVENT BREATHE FUMES OR LONG CONTACT OF SOLVENT WITH SKIN SUPPLY SUFFICIENT AIRFLOW.**

This type of material is cleaned with a mild soap and water solution such as Ivory liquid soap and wiped clean and dry. Do not use solvent-type cleaners.

**SUBTASK 25-03-70-160-005-A01**

(5) Leathers

Leathers is cleaned with saddle soaps. Do not use detergents or solvent-type.

**SUBTASK 25-03-70-160-006-A01**

(6) Cleaning requirements for actuators

- (a) Using chlorinated solvent and lint-free cloth, clean the mechanical parts except for ball bearing, actuator screw and pinions.
- (b) Dry with compressed air.