

Leopard 2A5/A5NL

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Leopard 2A5/A5NL

Als 1979 der erste Kampfpanzer Leopard 2 an die Bundeswehr übergeben wurde, war dieser für die nächsten Jahre der weltweite Maßstab bezüglich Beweglichkeit, Schutz und Bewaffnung. Die 2125 für die Bundeswehr bis 1992 produzierten Leoparden wurden während der Produktion fortlaufend verbessert, was letztlich zu der Version Leopard 2A4 führte. Der Kalte Krieg forderte jedoch immer leistungstärkere Waffensysteme. Da ein komplett neuer Kampfpanzer verworfen wurde, konzipierte man stattdessen ein umfangreiches Kampfverteidigungsprogramm für den Leopard 2A4. Der daraus entstandene Leopard 2A5 unterscheidet sich markant von den bisherigen Versionen. Das bis dahin bekannte Erscheinungsbild mit den senkrechten Turmwänden wurde durch die Verwendung von Vorsatzmodulen völlig verändert. Das Panzerkopf des Kommandanten erhält - weltweit erstmalig bei einem Kampfpanzer - ein Warmbildgerät, der Fahrer eine Rückfahrkamera. Weniger auffällig, aber wichtig, war der Tausch der alten hydraulischen Richtanlage gegen eine elektrische. Die elektrische Anlage erlaubt genaueres Steuern bei gleichzeitigem Entfall der gesamten anfälligen Hochdruckhydraulik-Anlage. Eigenschaften wie Unterwasserfahrtfähigkeit, ABC-Schutz usw. blieben erhalten. Die neuen Turmfrontzusatzelemente haben die Aufgabe, die erste Energie der anfliegenden Geschosse zu brechen und diese aus der Bahn zu bringen. Die Restenergie wird von der verbesserten Basispanzerung aufgefangen.

Die Kampfwertsteigerung wurde zusammen mit den Niederlanden und der Schweiz entwickelt, aber nur von Deutschland (A5) und den Niederlanden (ASNL) umgesetzt. Bei der Bundeswehr wurden zunächst 225 Umrüstungen von Leopard 2A4 auf 2A5 beauftragt. Dafür hat man die damals neusten Fahrgerüste (Baulose 6, 7 und 8) und die älteren Türme (bis Baulos 5) des Leopard 2A4 herangezogen. Bei den nächsten 125 Umrüstungen wurde darauf nicht mehr geachtet, was dazu führte, dass die Leopard 2A5 Flotte in Details Unterschiede aufweist. Durch die verbesserte Panzerung, den Wegfall der Hydraulik und das Wärmebildgerät des Kommandanten konnte der Leopard 2A5 1995 als neuste Version des Leopard 2 wieder die führende Position als Kampfpanzer zeihmen. Er wurde durch die Niederlande bei SFOR und Deutschland bei KFOR auf dem Balkan eingesetzt.

Technische Daten:	4 Mann
Gesamtgewicht:	120 mm Glattrohr-Kanone, 2x 7,62 mm MG3/A1
Bewaffnung:	59,7 Tonnen
Gewicht:	68 km/h
Max. Geschwindigkeit:	100 km/h (max. 100 km/h)

Die Kreditlinie besteht aus einer Kreditlinie mit einer Laufzeit von 12 Monaten und einer Kreditlinie mit einer Laufzeit von 12 Monaten, die beide auf die gleiche Fälligkeit fällig sind. Die Kreditlinie mit einer Laufzeit von 12 Monaten ist für den Betrag von 100.000,- € und die Kreditlinie mit einer Laufzeit von 12 Monaten ist für den Betrag von 100.000,- € bestimmt.

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When the first Leopard 2 battle tank was handed over to the Federal German Army in 1979, for years it set the worldwide standard for manoeuvrability, armour and armament. The 2125 Leopards produced for the German Army up to 1992 were continuously improved during production, which ultimately gave rise to the Leopard 2A4 version. The Cold War however required ever more powerful weapons systems. As a completely new battle tank had been ruled out, instead of this an extensive combat capability upgrade programme was designed for the Leopard 2A4. The resulting Leopard 2A5 had striking differences from the previous versions. The previous well-known appearance with the vertical turret walls was totally altered by the use of add-on modules. The commander's periscope received thermal imaging equipment – a world first on a battle tank – and the driver a reversing camera. Less striking, but no less important, was the replacement of the old hydraulic aiming device by an electric one. The electrical system provided more accurate control without needing all the vulnerable high pressure hydraulic equipment. Features such as fording capability, NBC protection etc remained. The new frontal attachments are designed to break the initial impact of incoming missiles and deflect them. The remaining energy is absorbed by the improved basic armour.

The combat capability upgrade was developed jointly with Holland and

Switzerland, but only implemented by Germany (A5) and Holland (ASNL). The German Army first ordered 225 upgrades of Leopard 2A4 to 2A5. For this purpose the then latest chassis (batches 6, 7 and 8) and the older turrets (up to batch 5) of the Leopard 2A4 were used. For the next 125 upgrades nothing further was considered, which meant that the Leopard 2A5s differ in details. By means of improved armour, the elimination of the hydraulic system, and the addition of commander's thermal imaging equipment, in 1995 the Leopard 2A5, as the latest version of the Leopard 2, cemented its position as the leading battle tank. It was used by Holland with SFOR and Germany with KFOR in the Balkans.

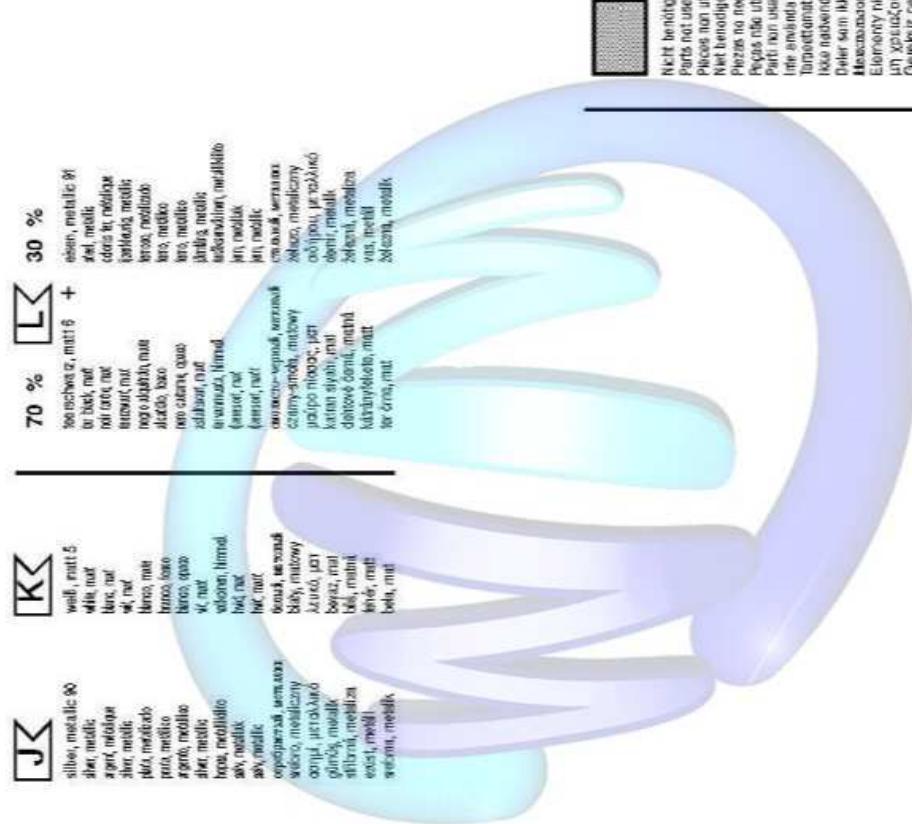
Technical data:

Armament: 120 mm smooth bore cannon, 2 x 76.2 mm MG 3/1A1
Weight: 59.7 tonnes
Max. speed: 68 km/h
Engine: MTU 1,100 kW (1,500 hp)

and present, and propose to Royal Gramat Co., N.Y., their interests in chart. 1 presented.

En la actualidad, el Instituto de Ciencias de la Tierra (ICT) de la Universidad de Valencia es un centro de investigación en geodinámica y tectónica de la Tierra.

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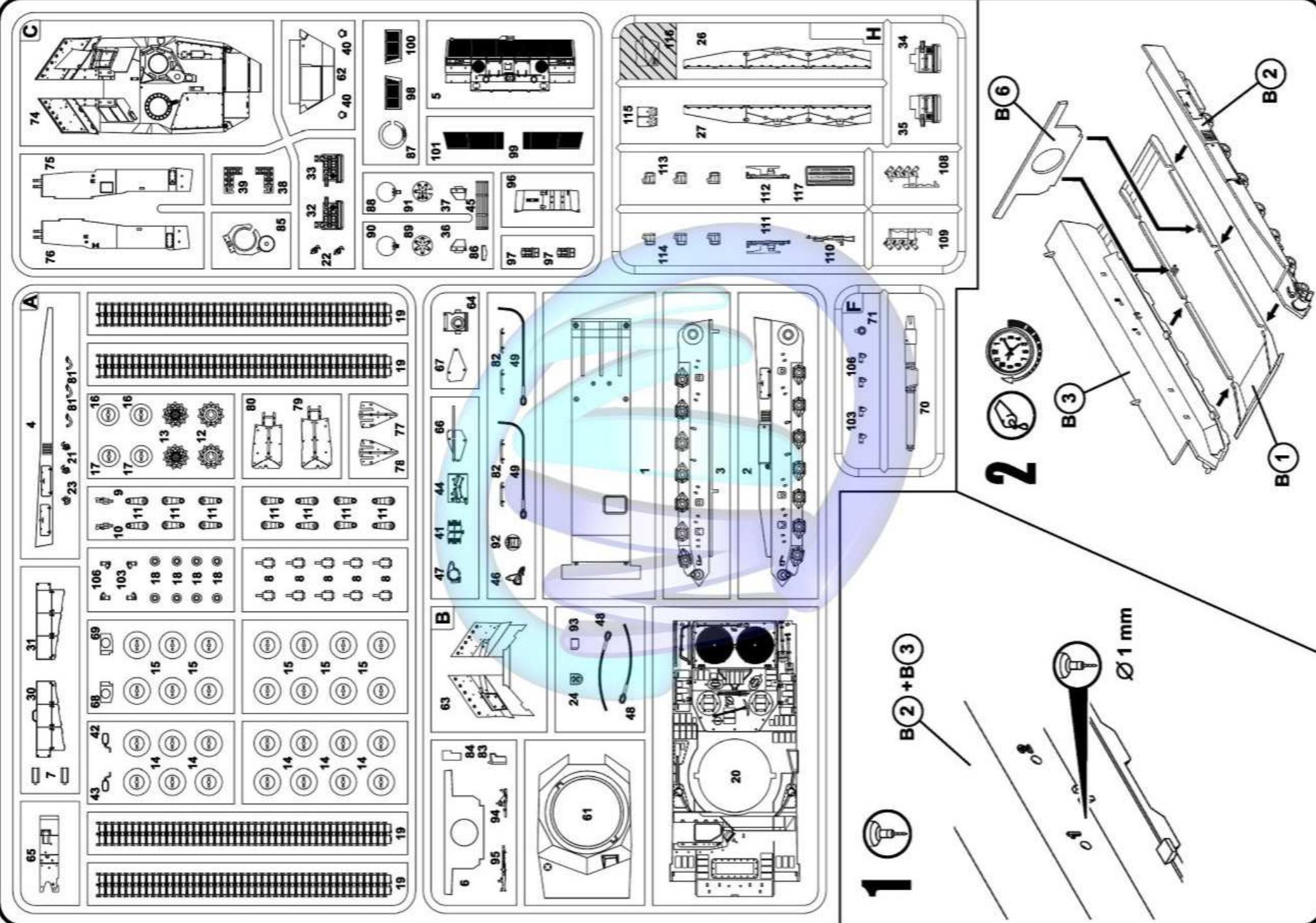
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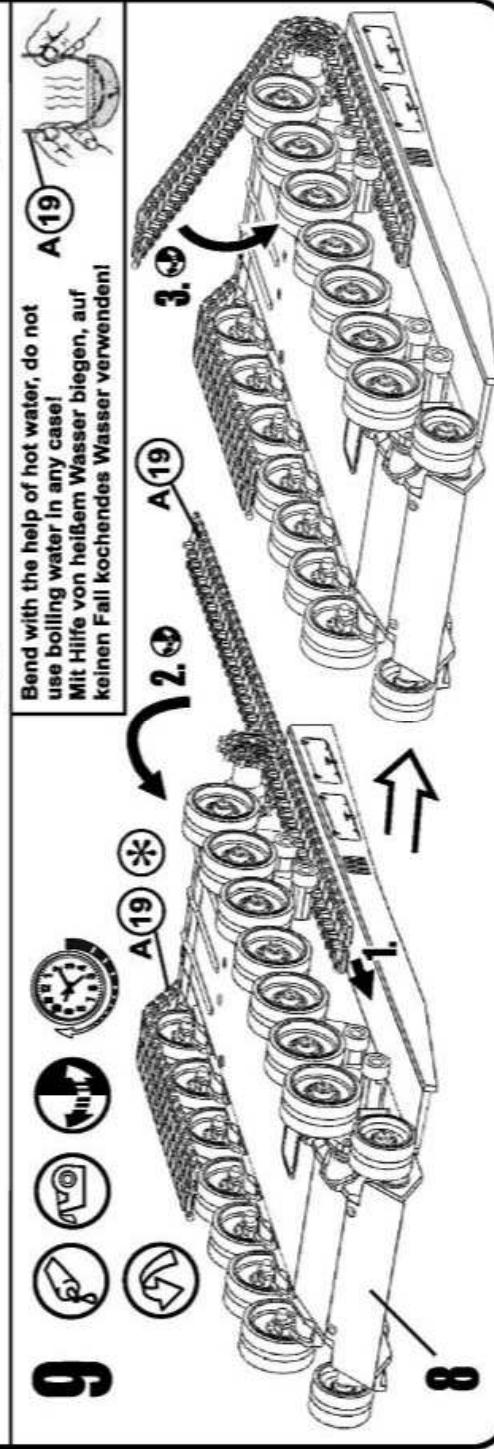
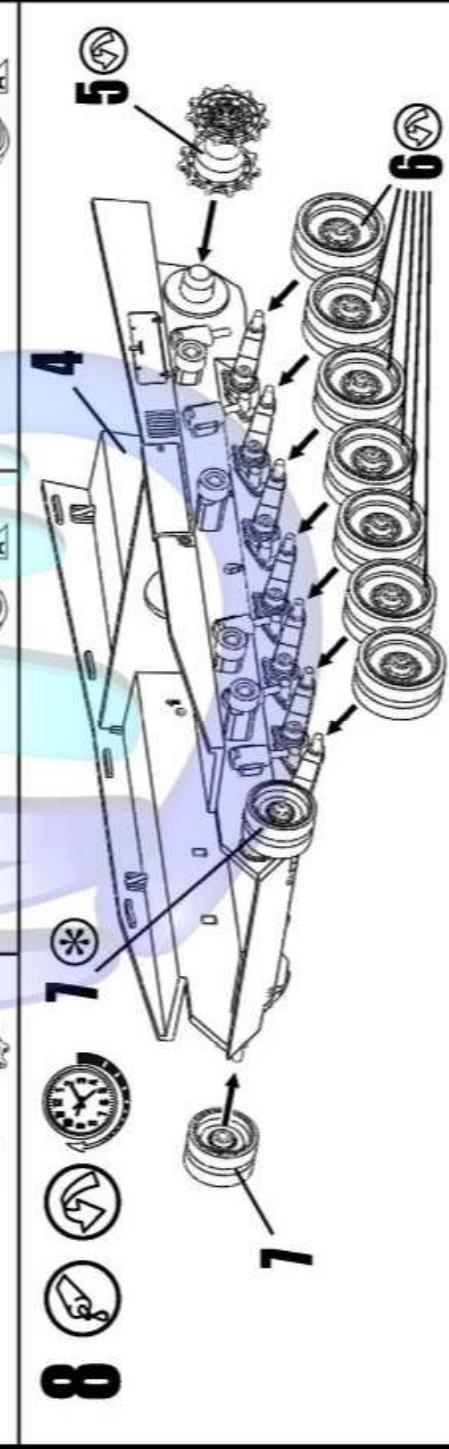
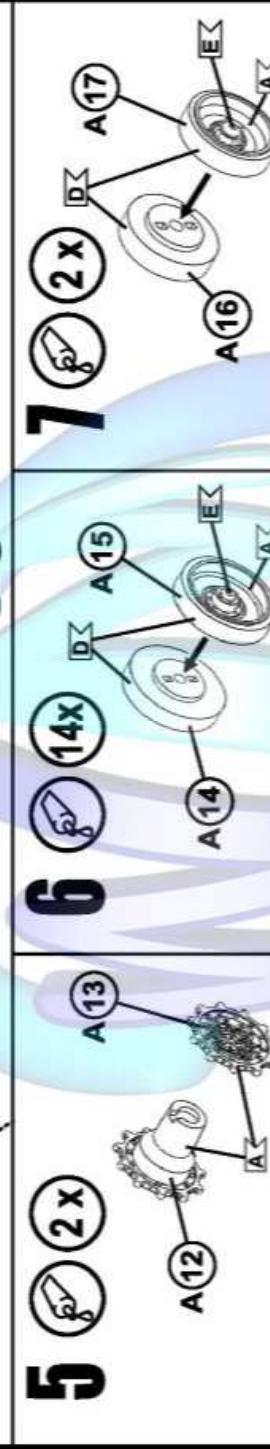
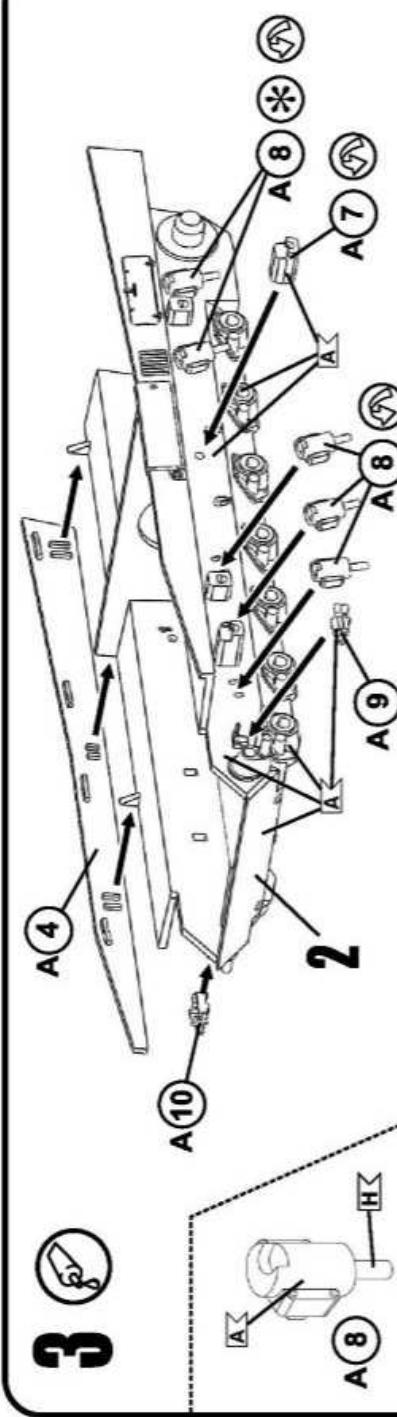
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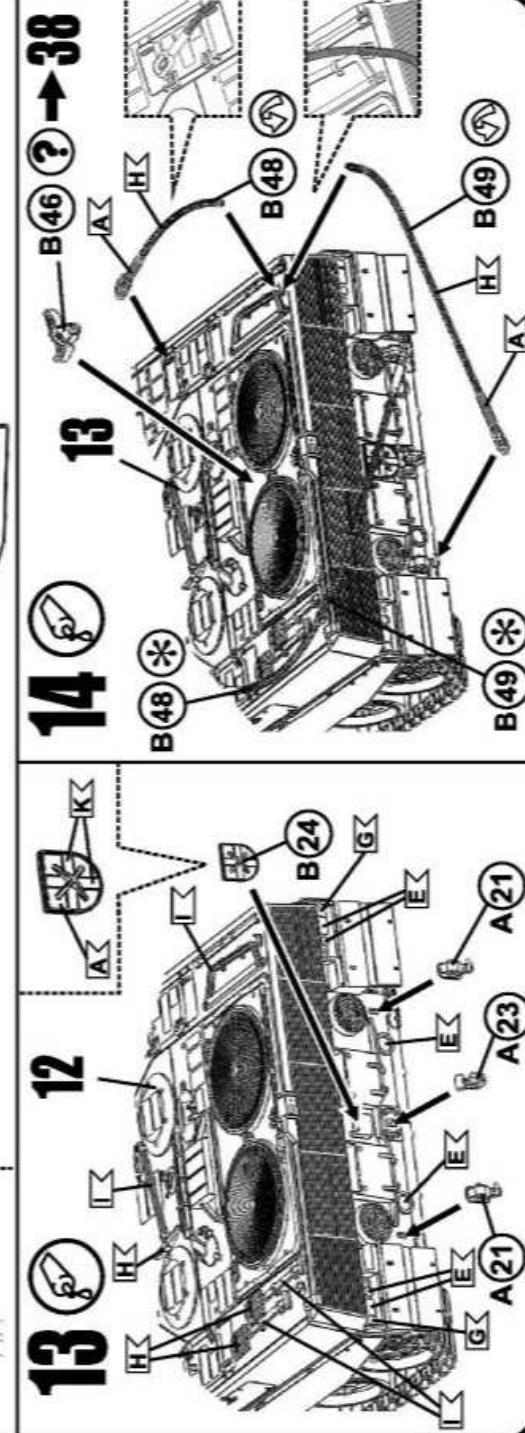
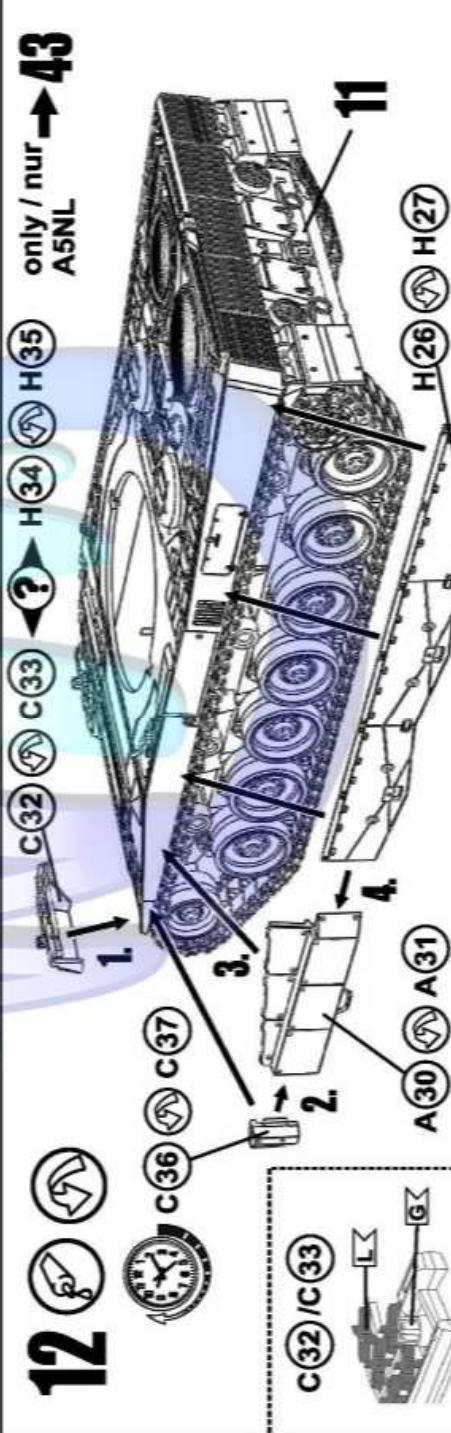
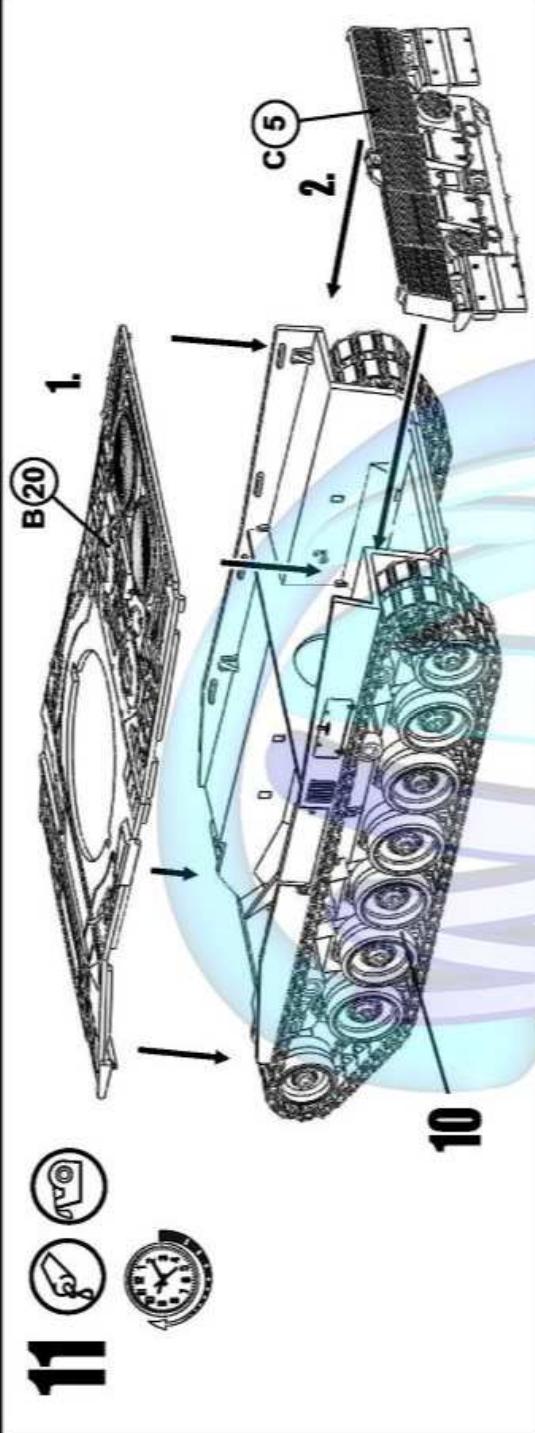
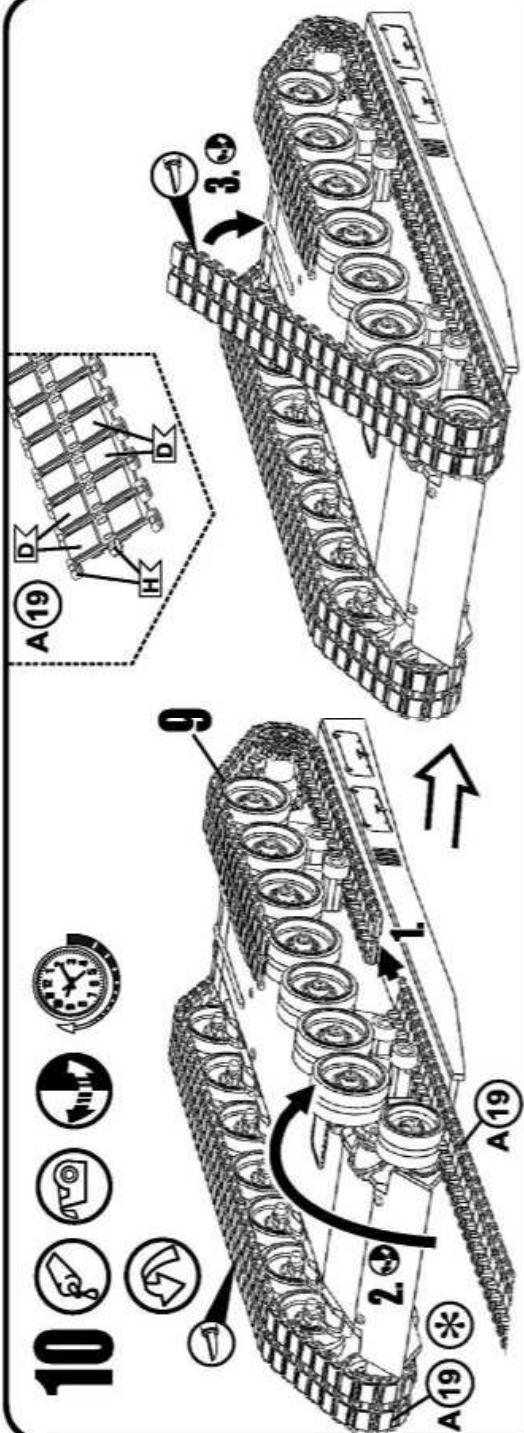
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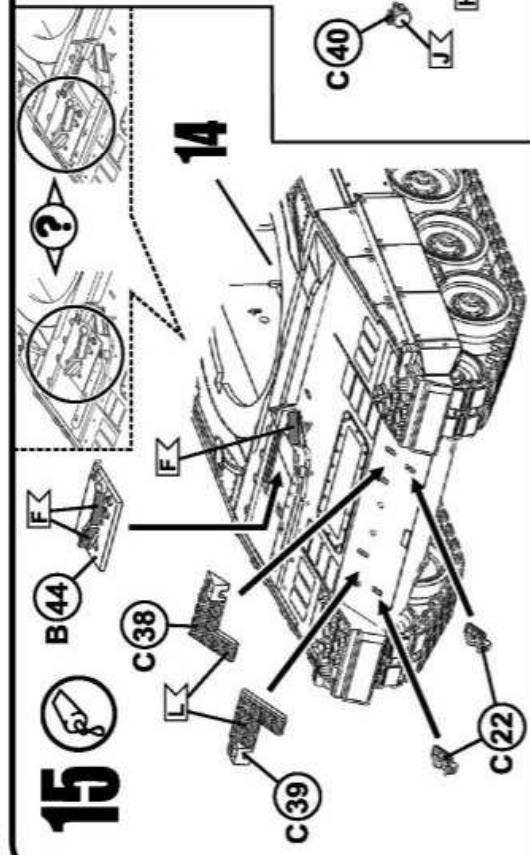
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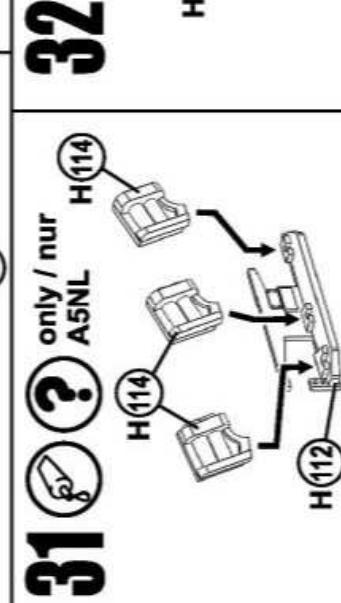
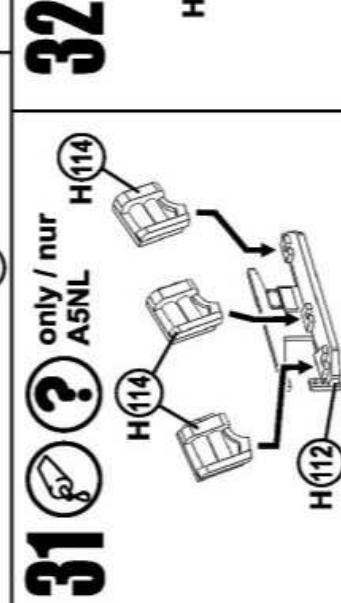
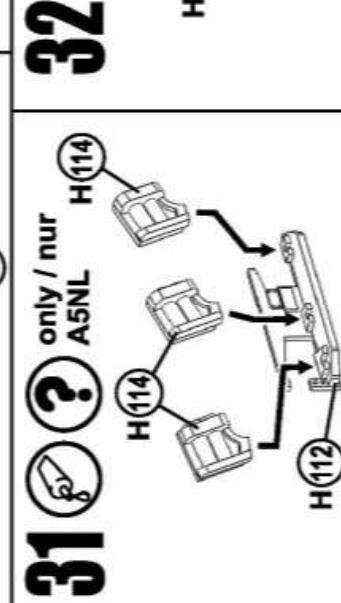
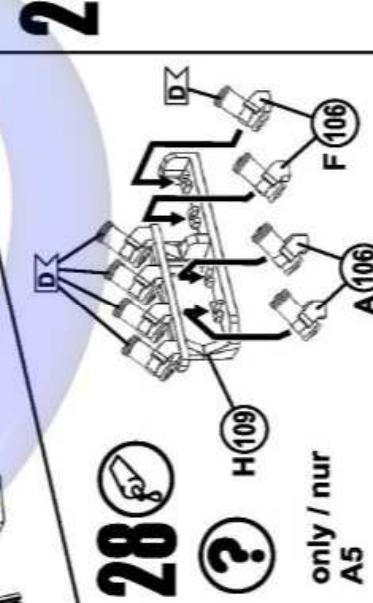
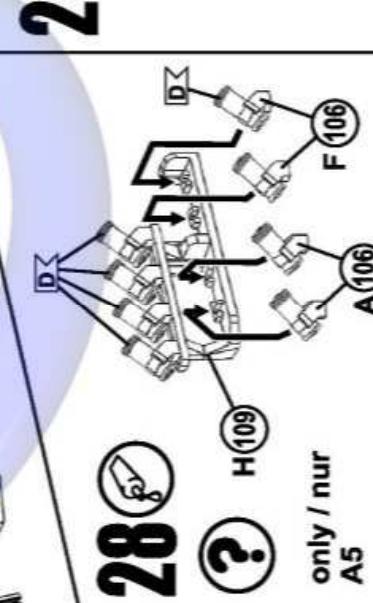
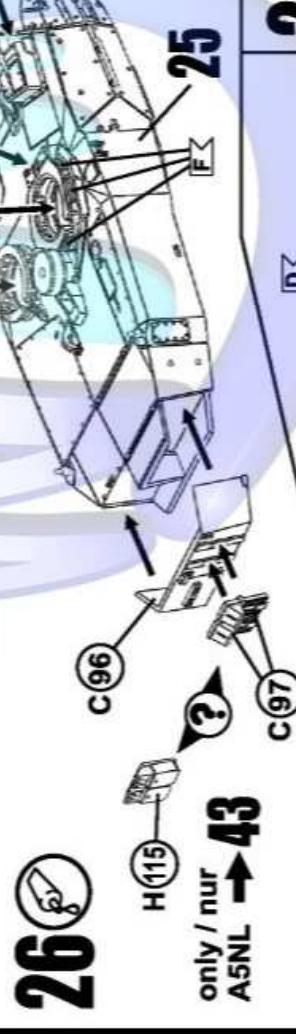
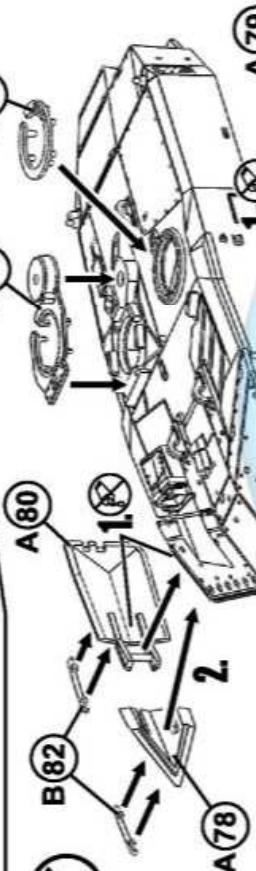
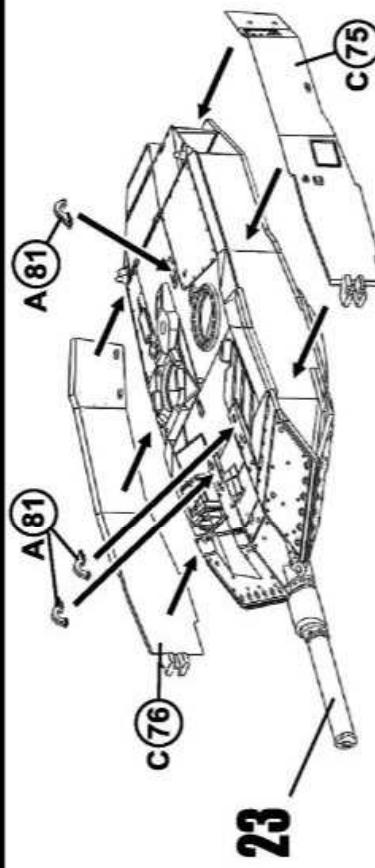
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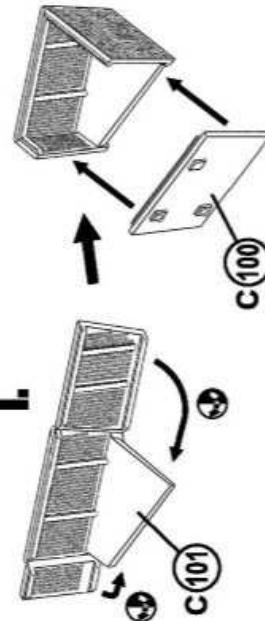
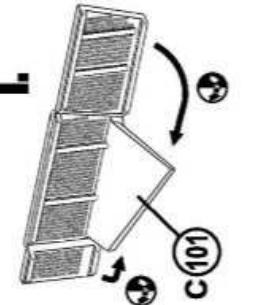
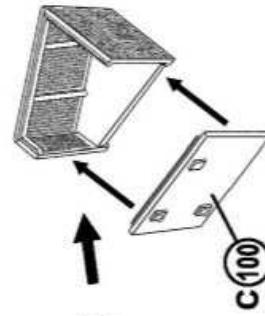
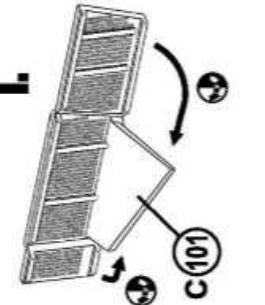
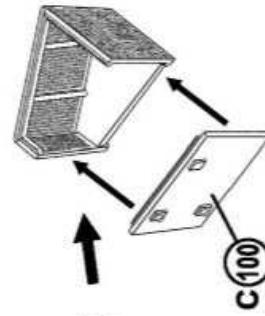
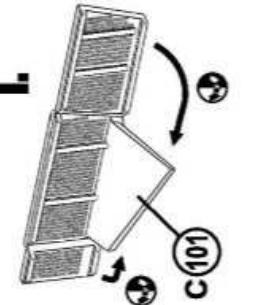
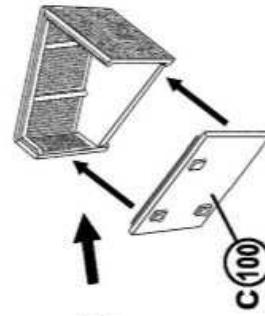
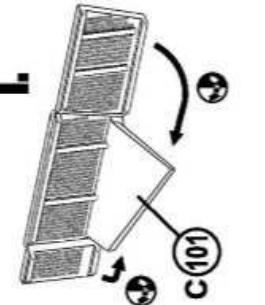
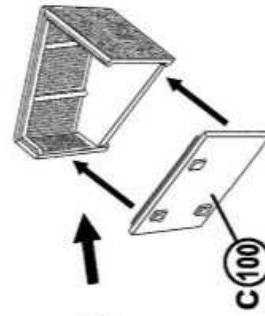
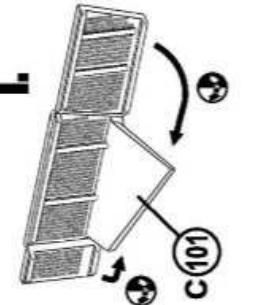
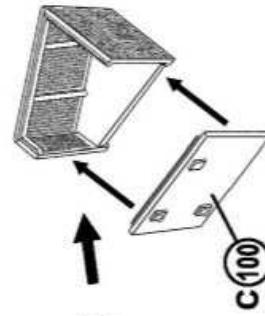
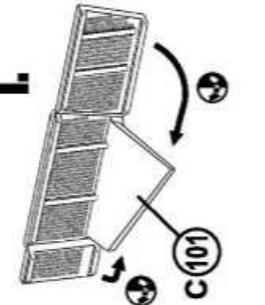
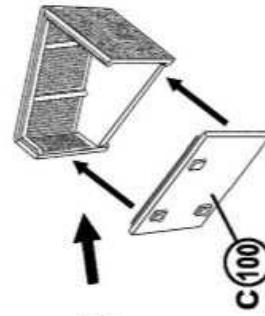
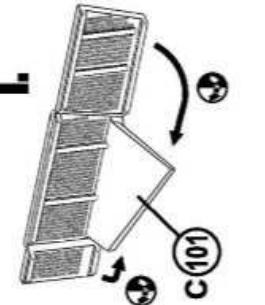
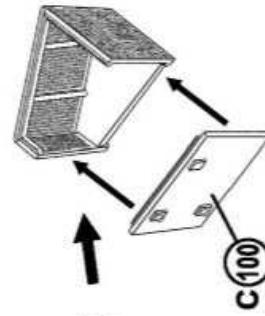
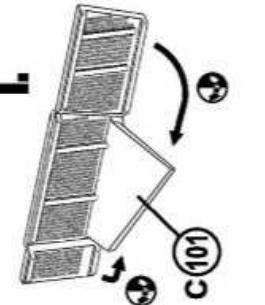
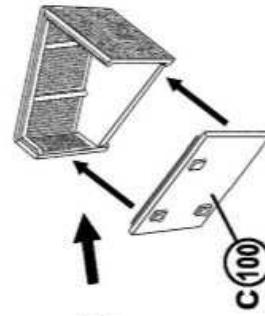
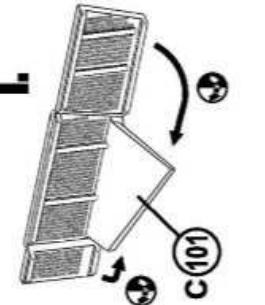
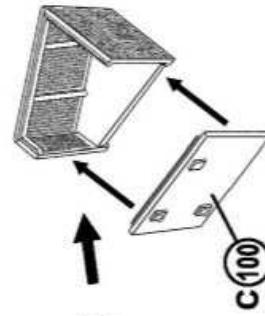
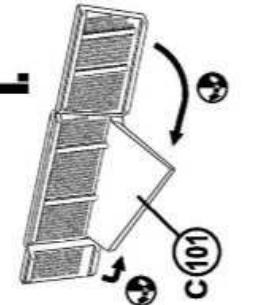
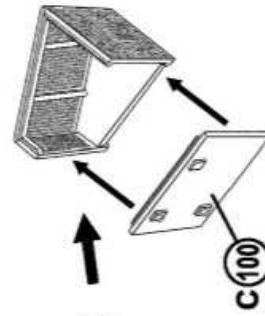
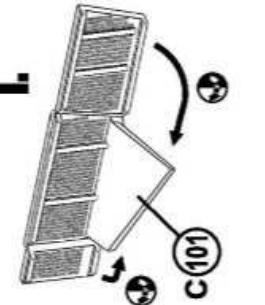
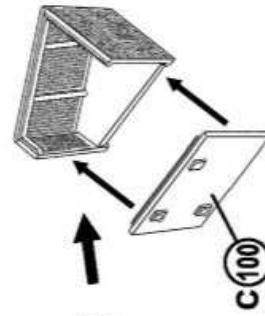
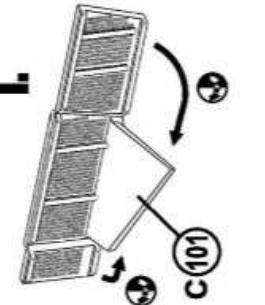
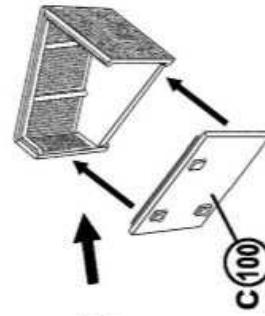
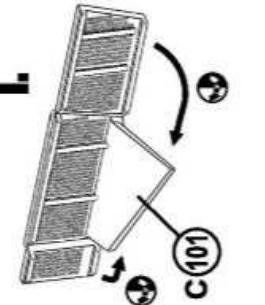
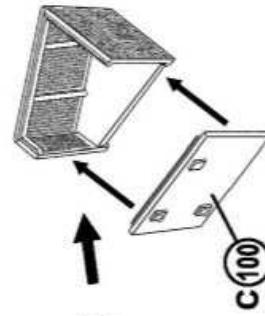
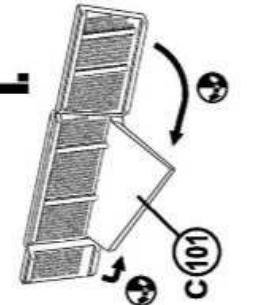
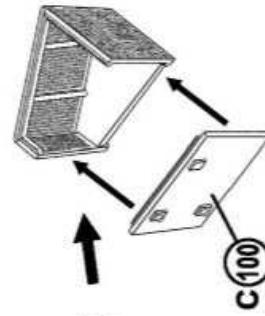
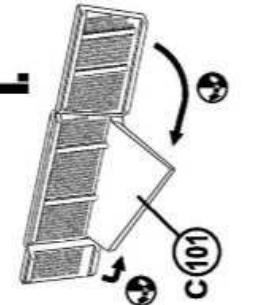
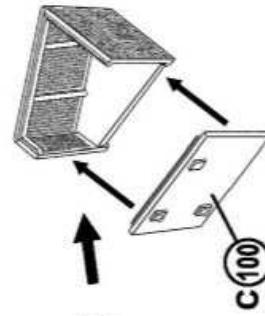
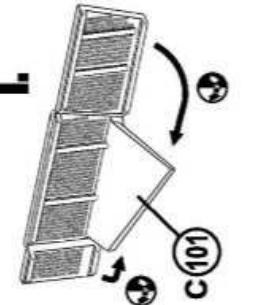
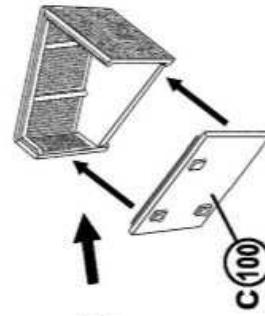
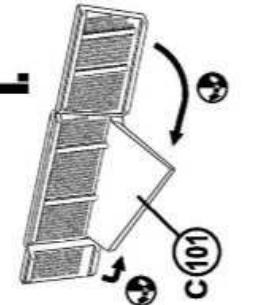
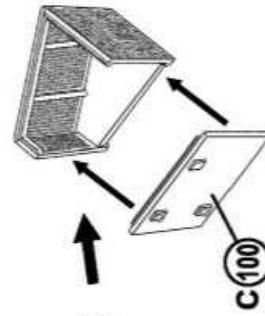
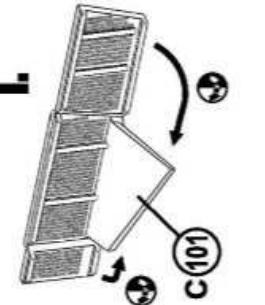
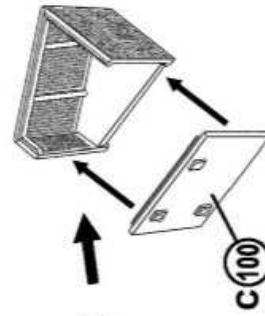
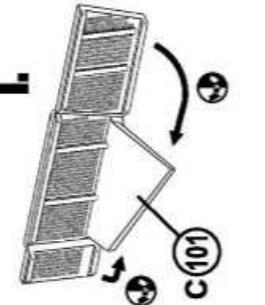
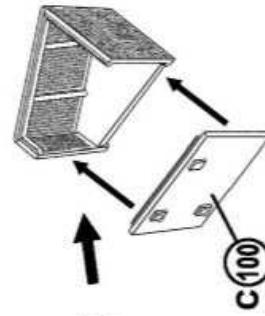
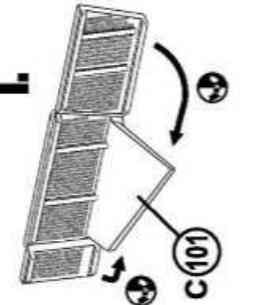
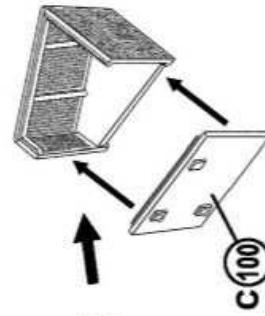
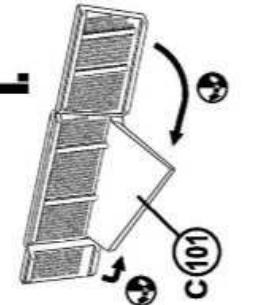
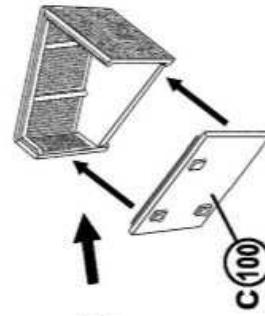
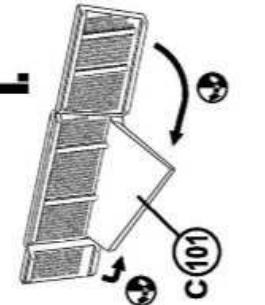
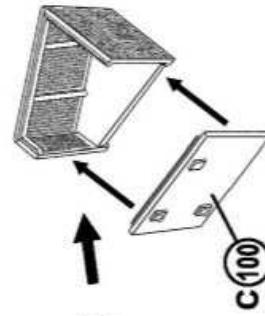
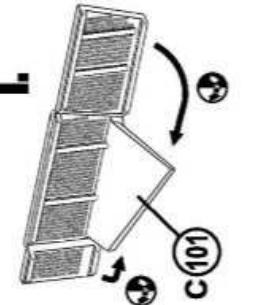
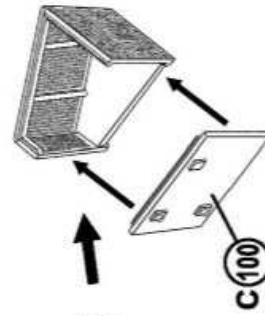
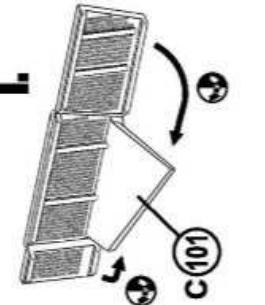
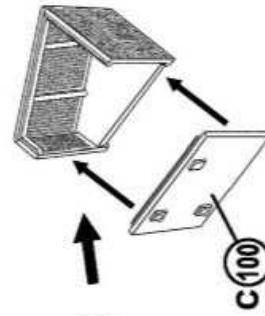
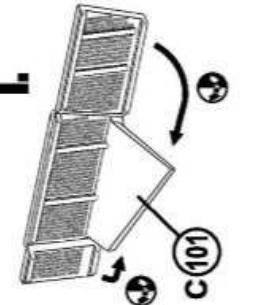
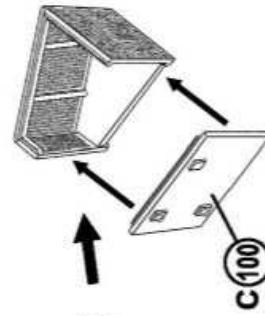
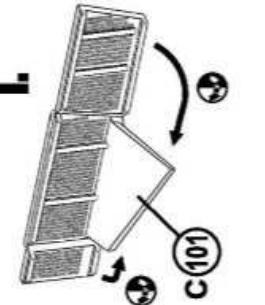
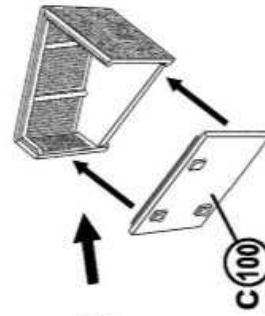
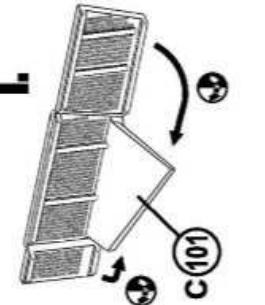
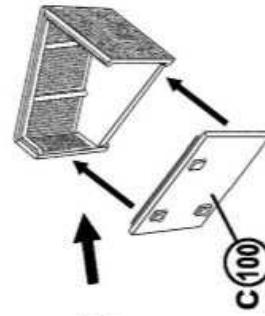
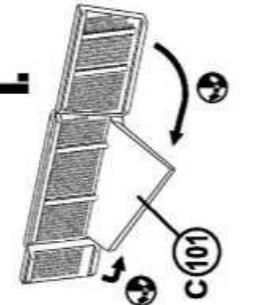
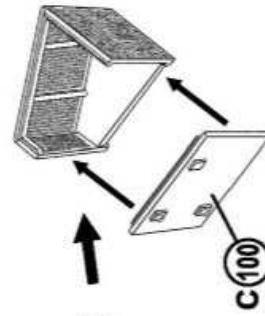
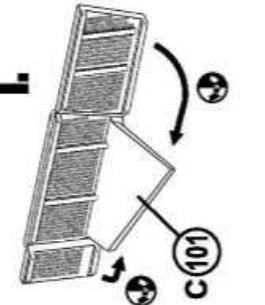
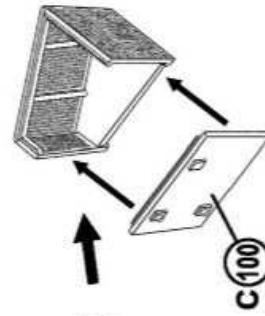
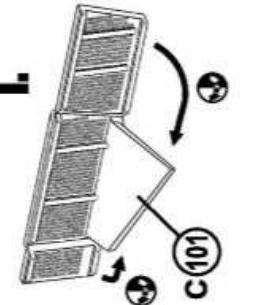
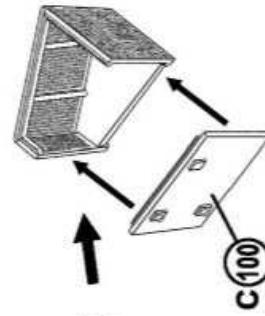
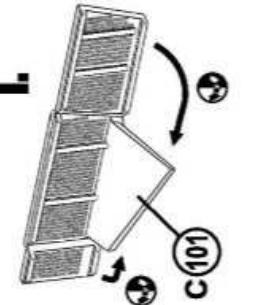
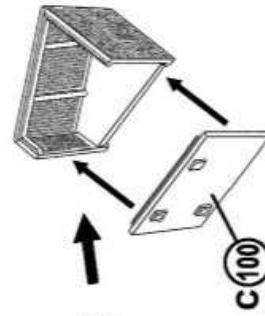
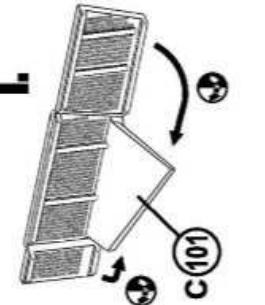
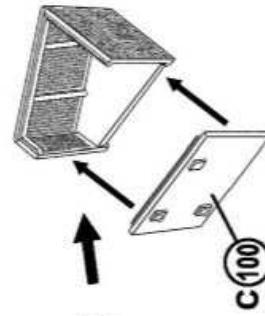
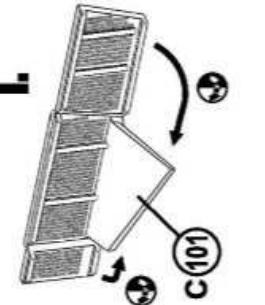
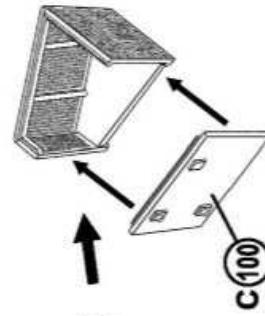
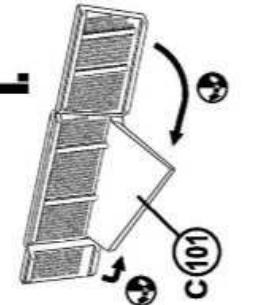
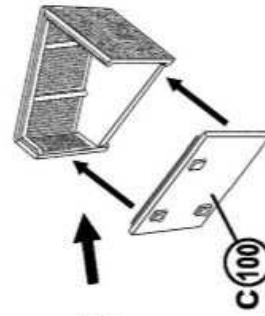
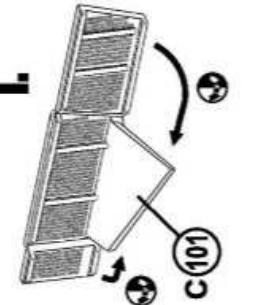
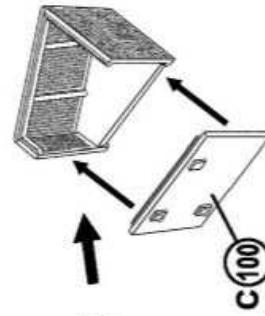
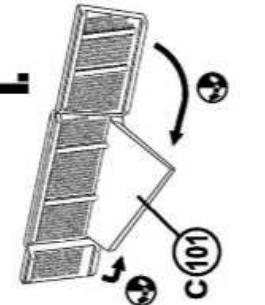
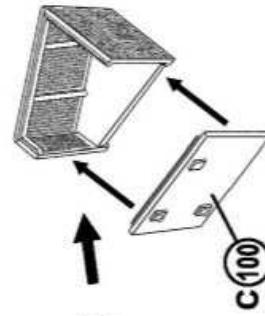
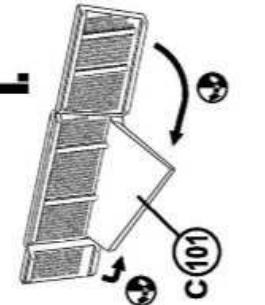
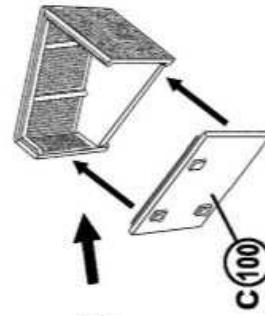
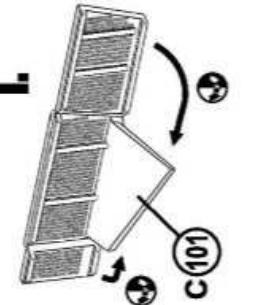
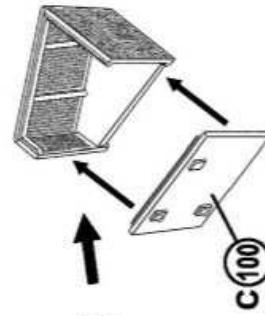
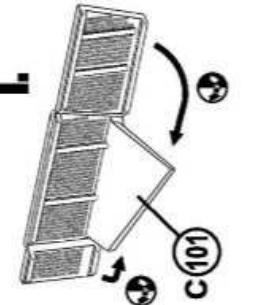
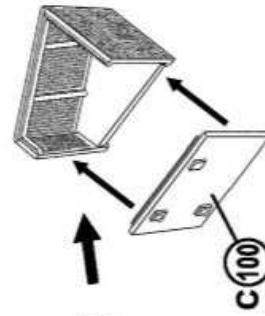
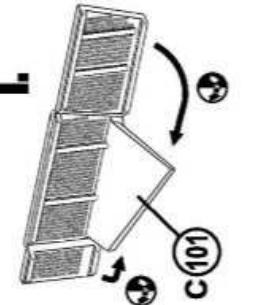
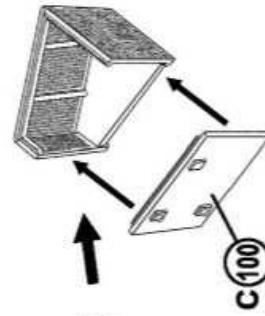
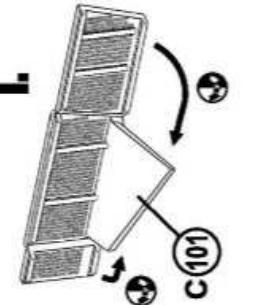
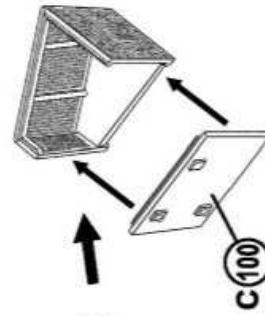
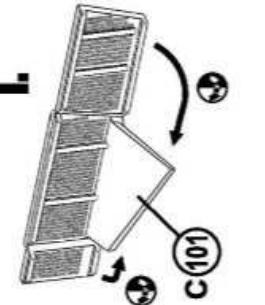
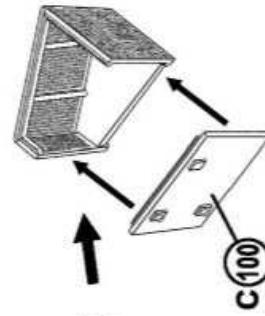
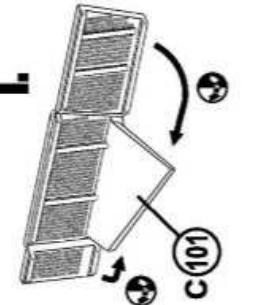
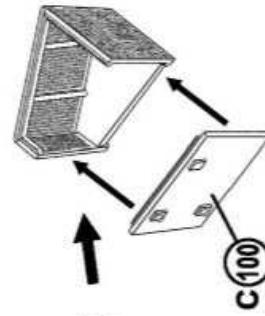
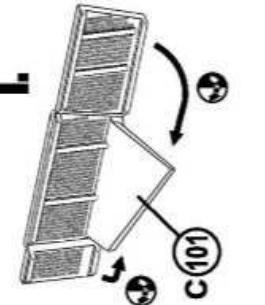
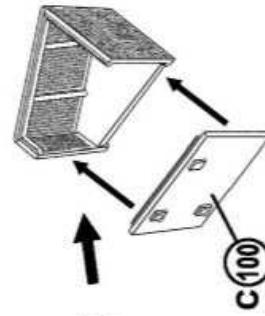
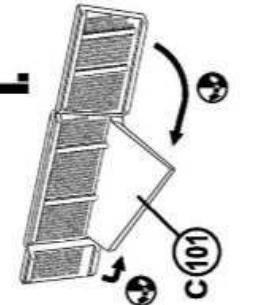
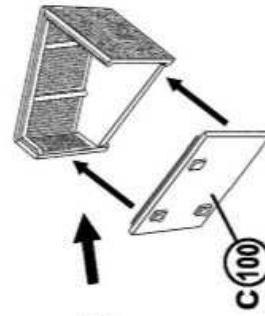
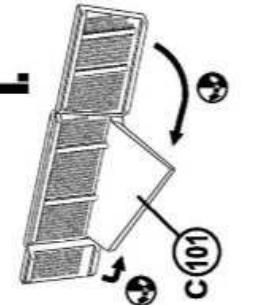
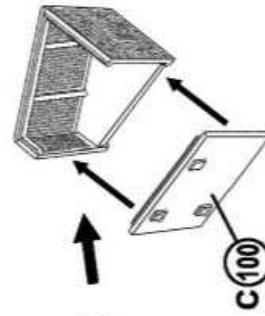
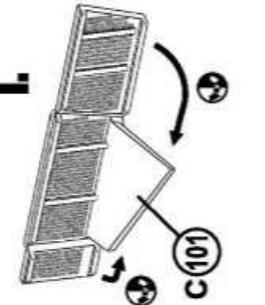
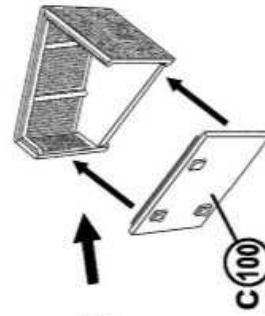
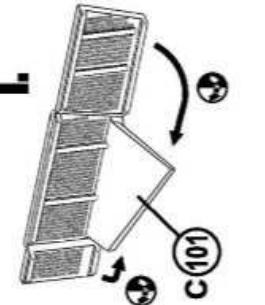
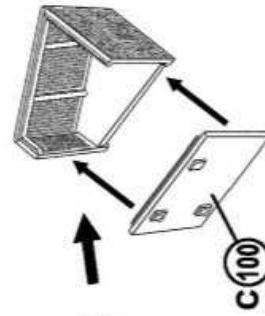
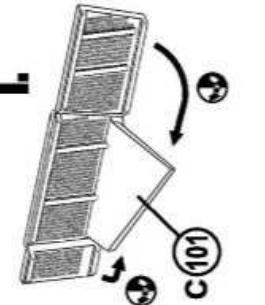
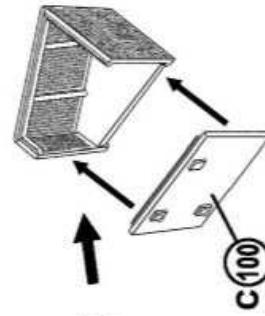
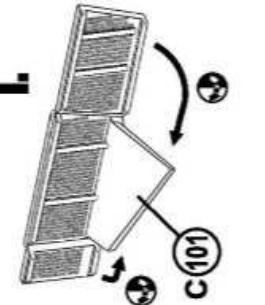
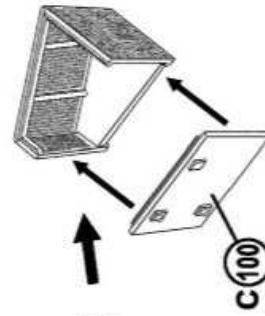
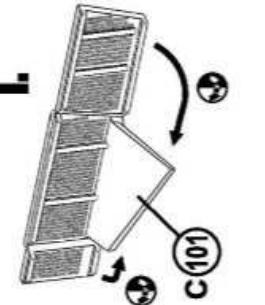
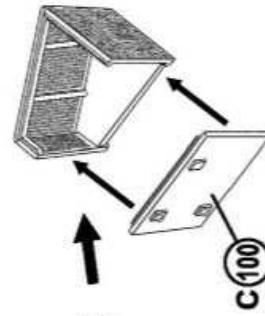
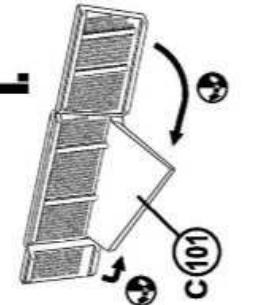
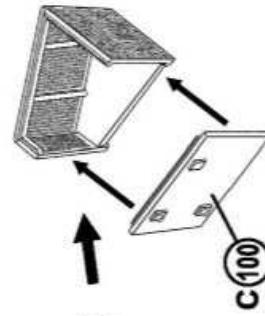
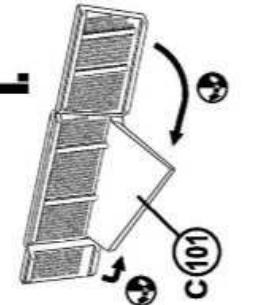
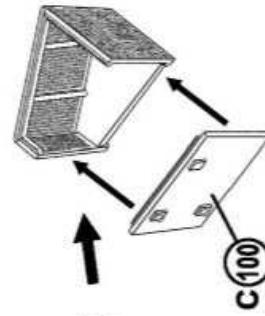
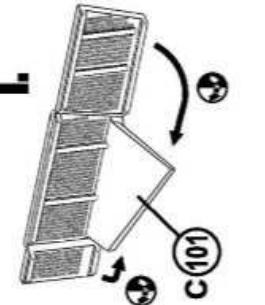
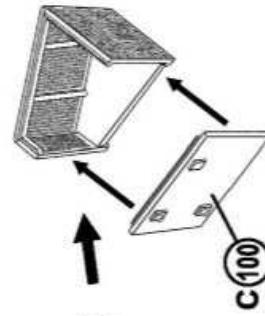
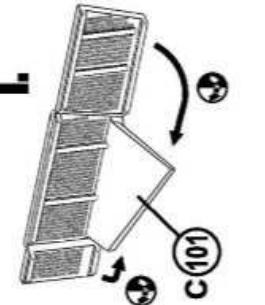
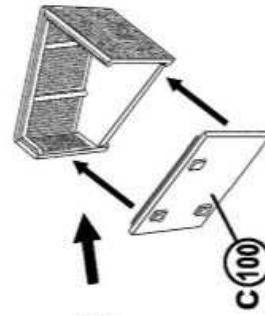
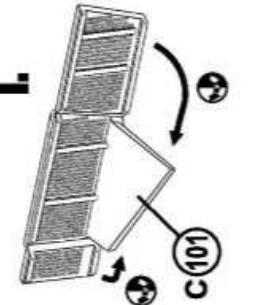
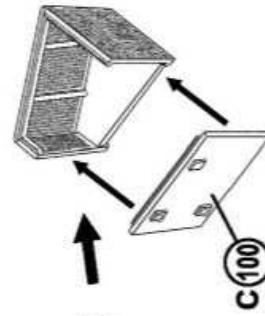
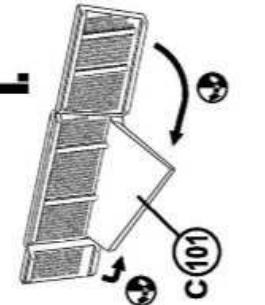
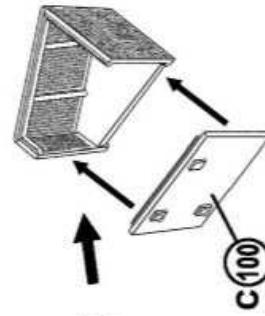
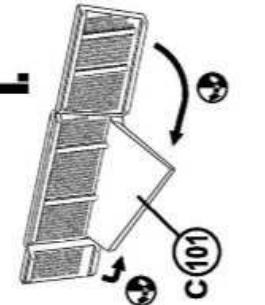
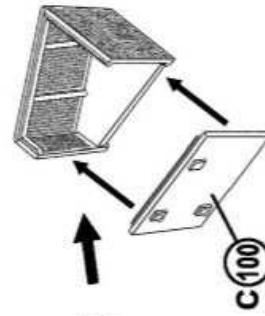
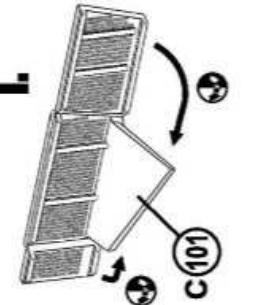
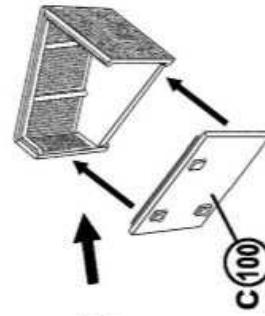
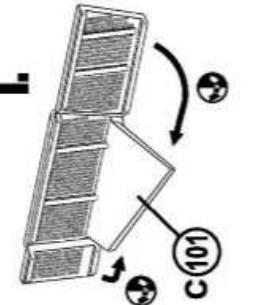
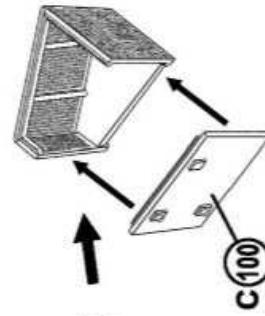
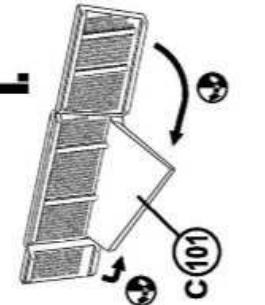
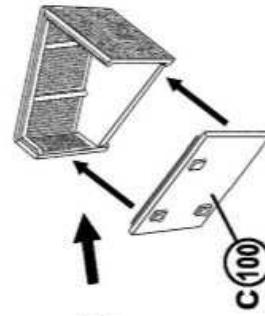
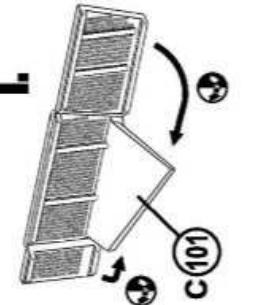
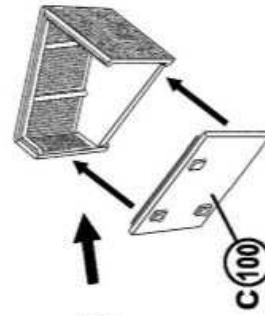
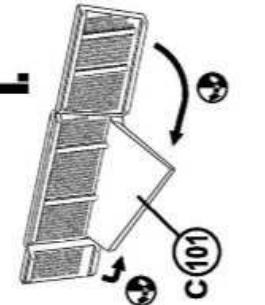
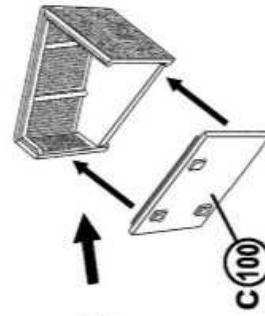
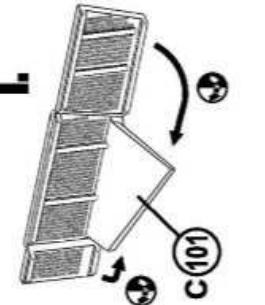
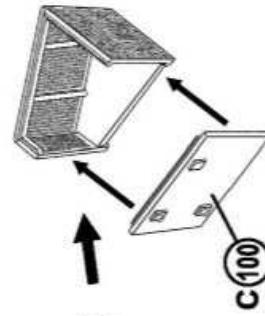
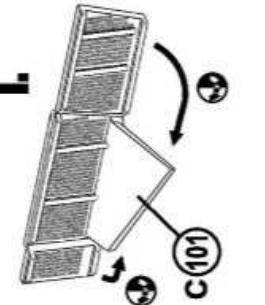
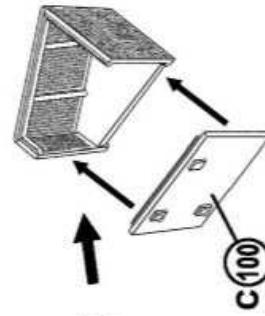
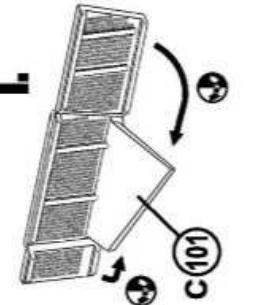
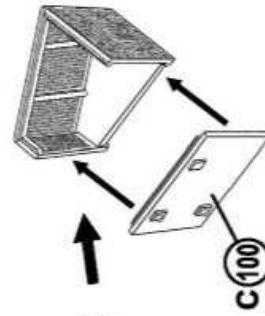
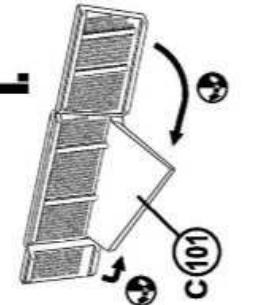
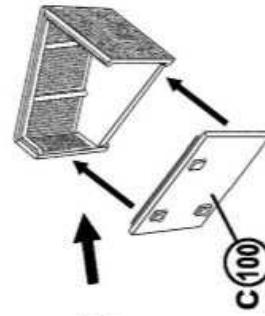
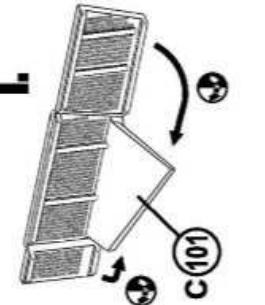
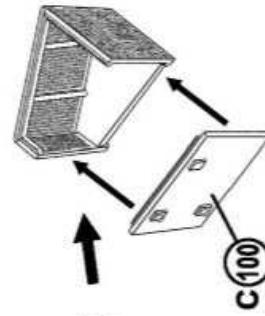
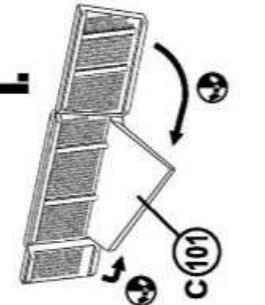
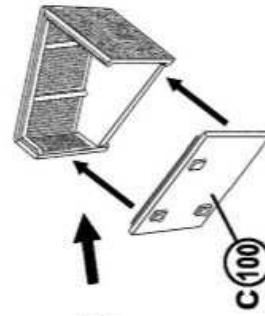
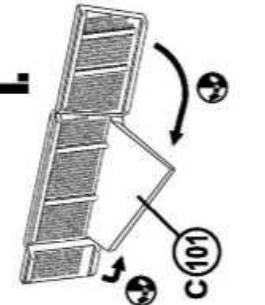
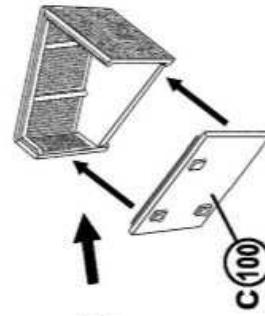
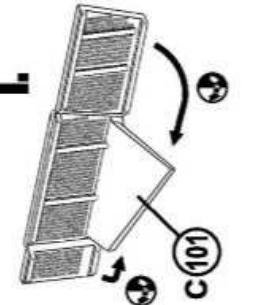
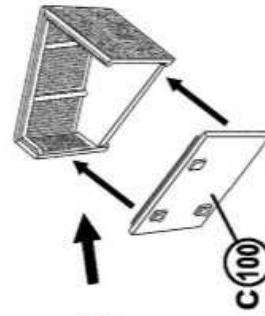
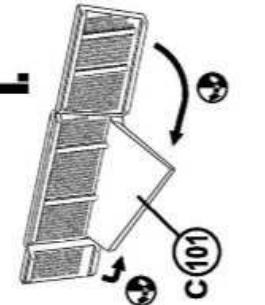
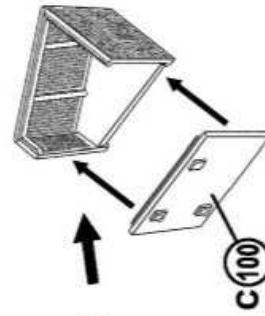
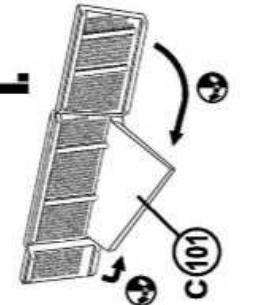
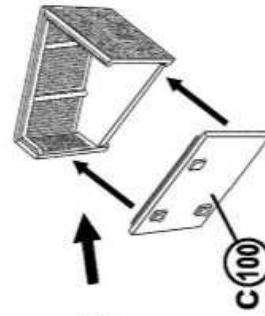
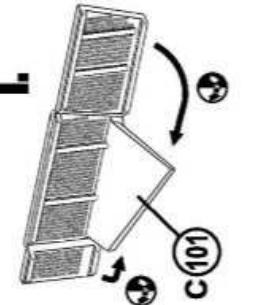
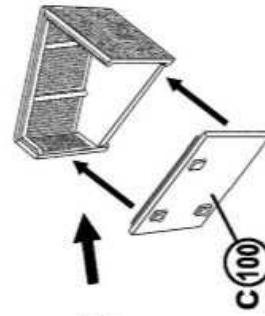
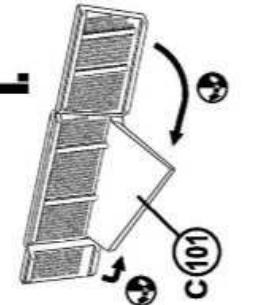
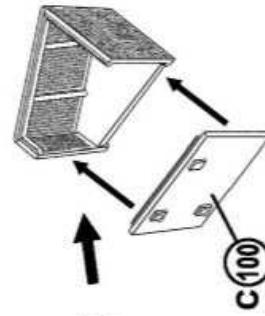
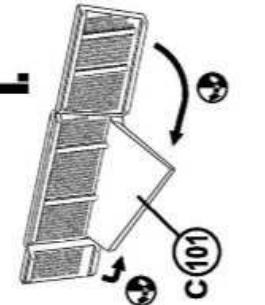
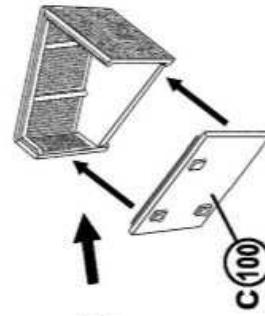
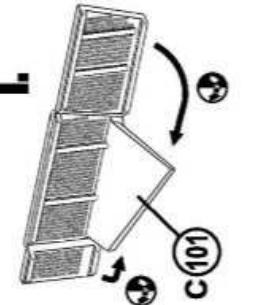
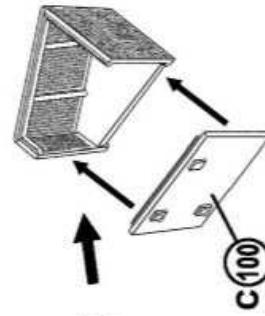
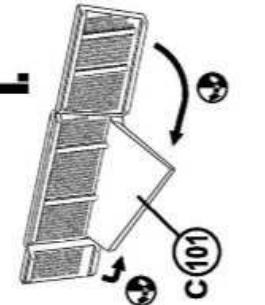
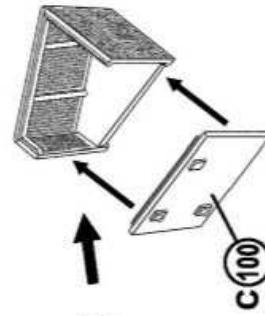
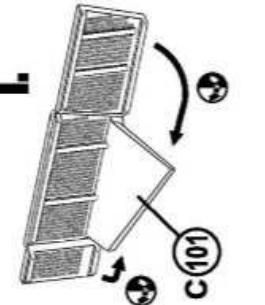
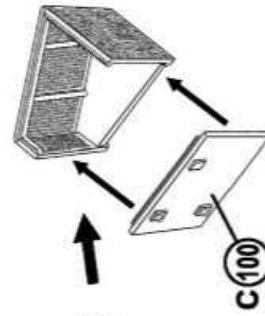
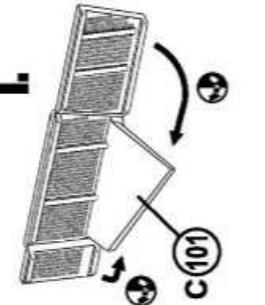
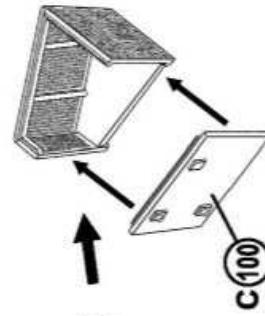
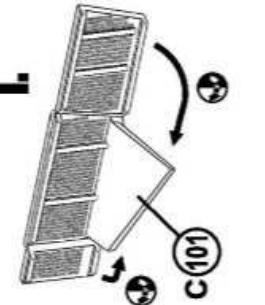
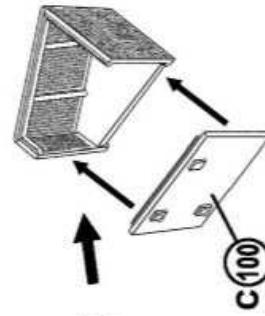
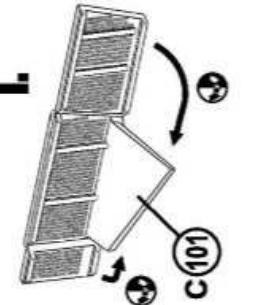
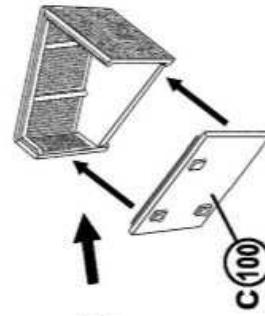
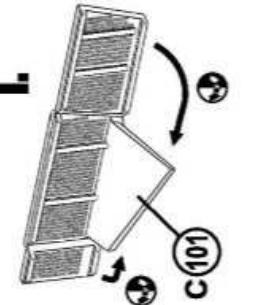
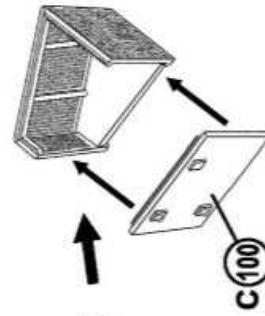
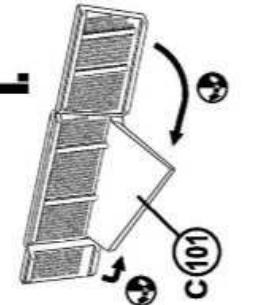
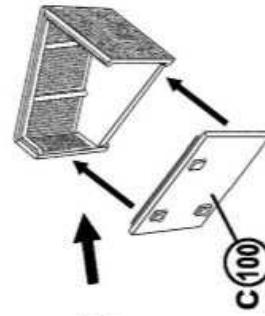
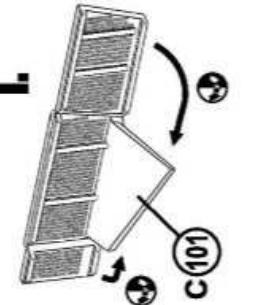
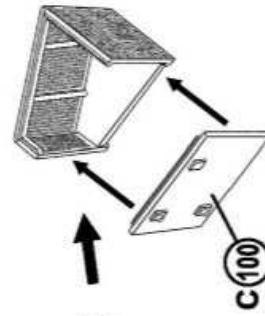
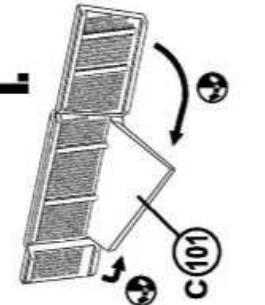
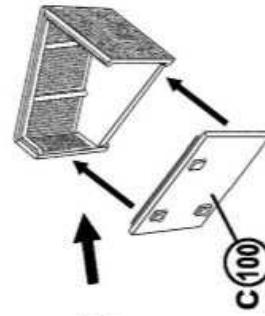
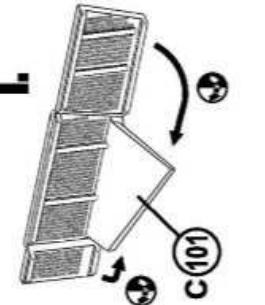
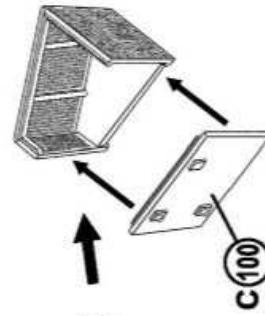
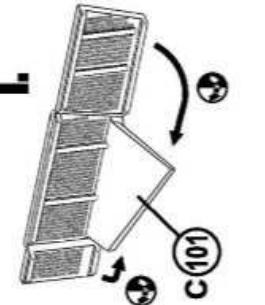
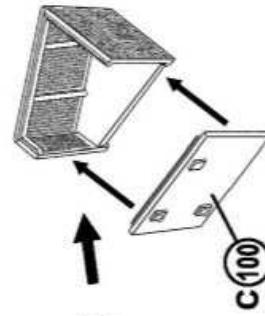
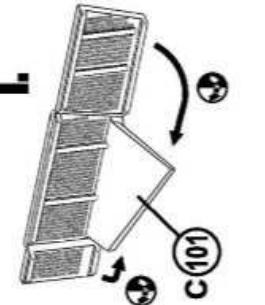
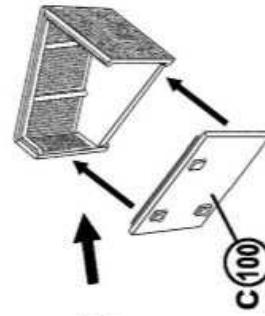
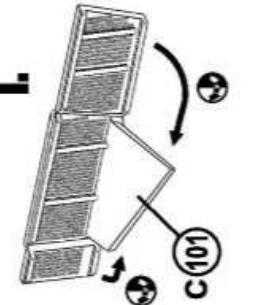
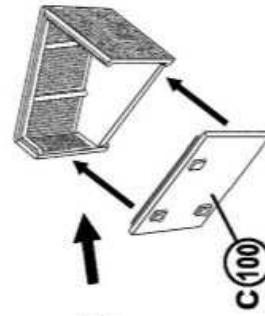
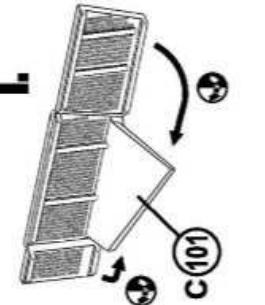
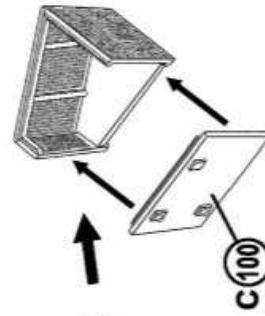
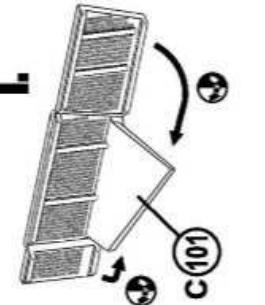
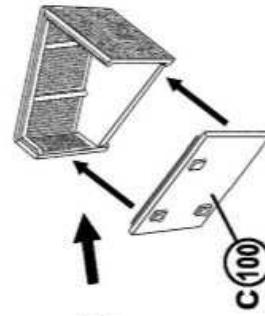
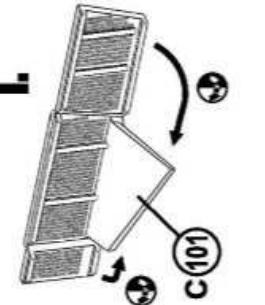
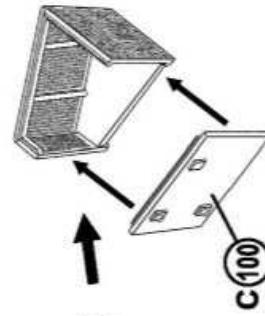
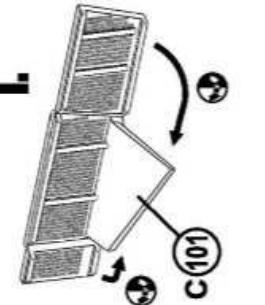
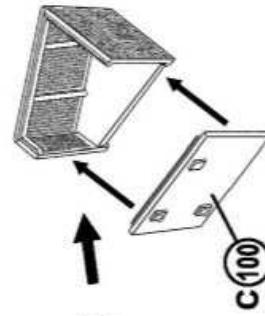
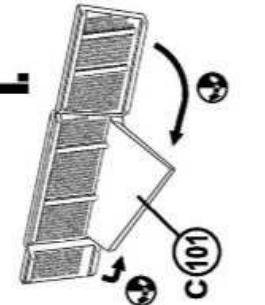
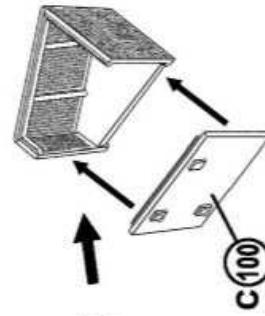
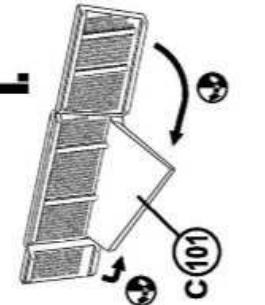
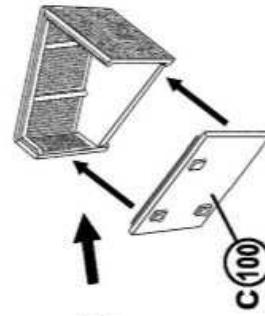
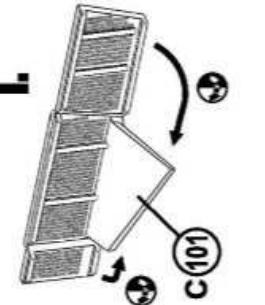
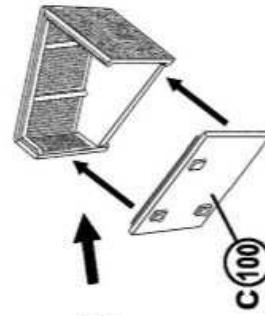
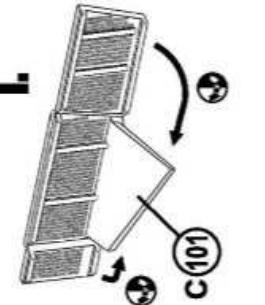
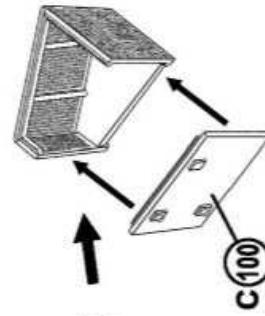
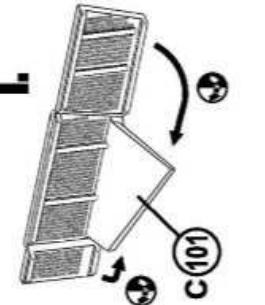
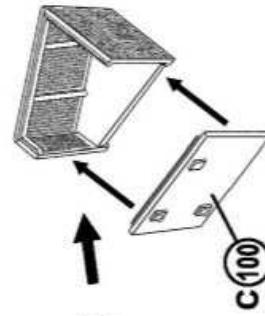
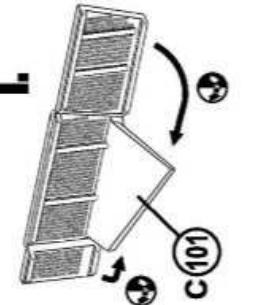
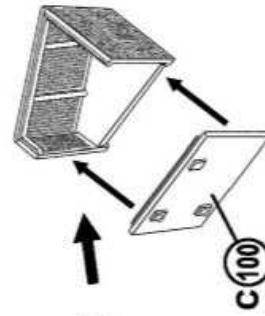
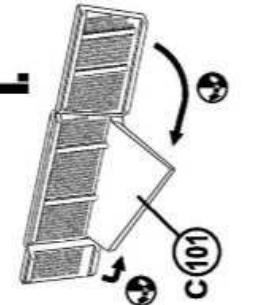
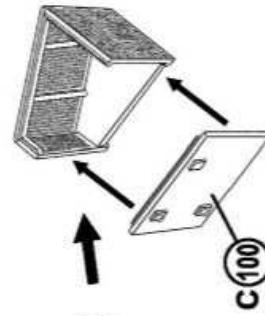
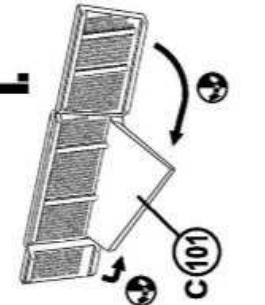
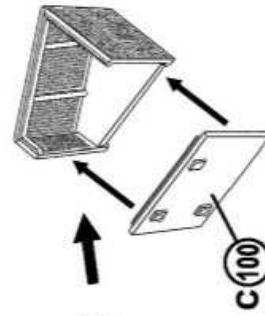
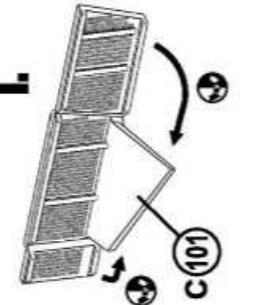
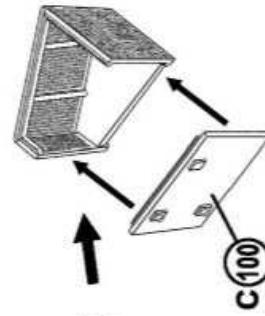


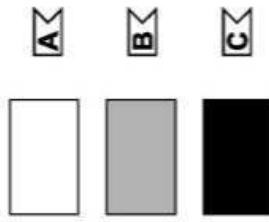
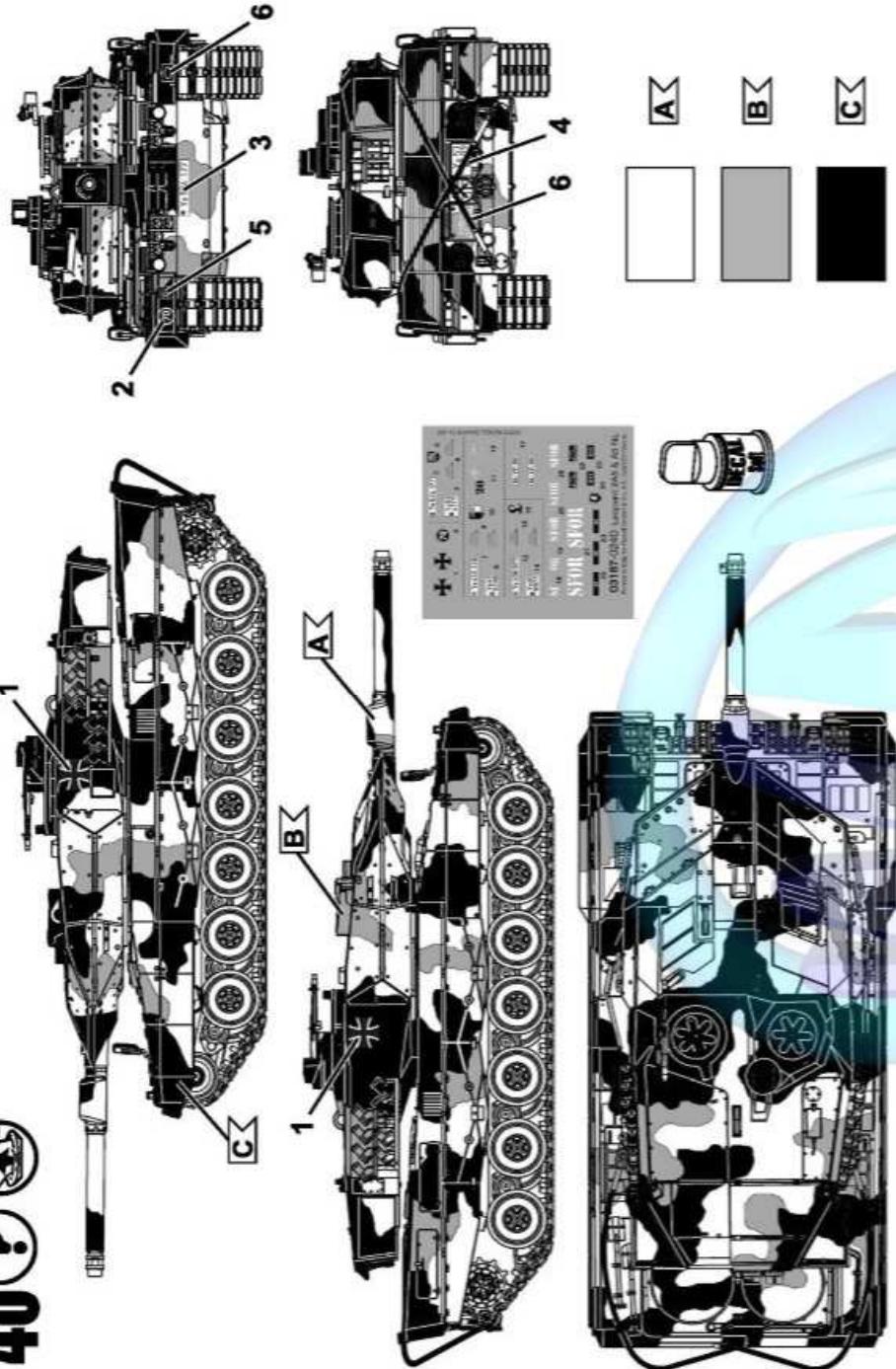
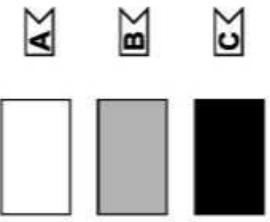
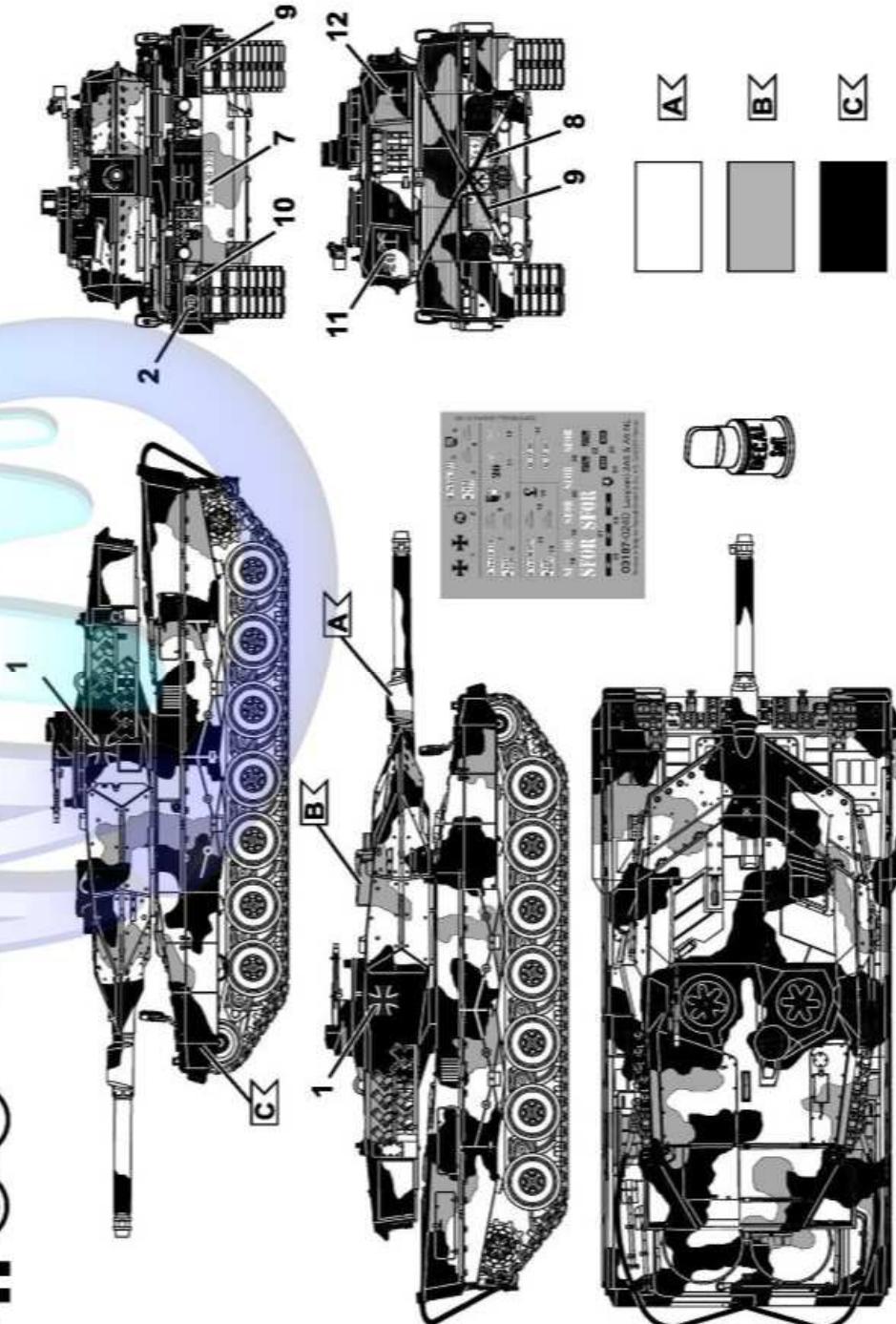






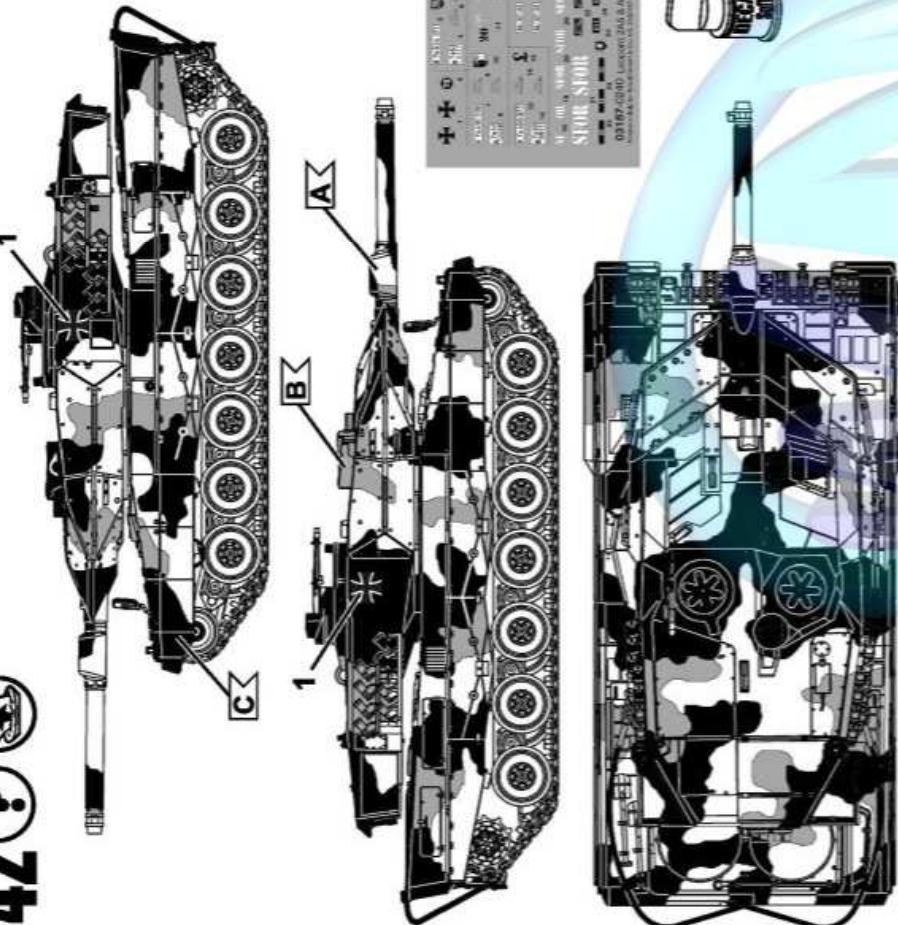
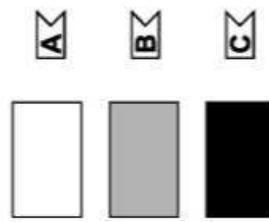
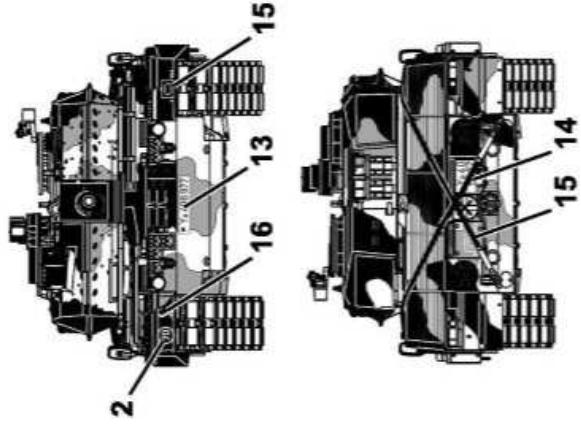


34**2.****1.****2.****33**

Leopard 2A5, PzBtl 84, Lüneburg, 2001**40** ?**Leopard 2A5, PzBtl 33, Neustadt a.R., 2000****41** ?

42?

Leopard 2A5, PzBtl 93, Munster, 2006



43?

Leopard 2A5NL, B Kompanie/ Tkbtj 101, SFOR, Bosnia-Herzegovina, 2000/ 2001

