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VICTOR HASSELBLAD

Åkiefbolag

GÖTEBORG • SWEDEN

The drawings show the latest construction of the parts. In exceptional cases it may happen that the part to be exchanged does not correspond exactly with the drawing. In this case, kindly note on your order that the part desired does not conform with the drawing.

At the end of this catalogue are a number of order forms. They are transparent in case any detail has to be traced.

Die Zeichnungen zeigen die letzte Ausführung der Teile. Es kann ausnahmsweise eintreffen, dass der Teil, der ausgetauscht werden soll, nicht genau mit dem Abgebildeten übereinstimmt. Wir bitten Sie in diesem Falle bei Bestellung anzugeben, dass das Detail abweichendes Aussehen hat.

Am Ende des Deckes gibt es Bestellzettel. Sie sind durchsichtig um behilflich zu sein, falls ein Detail abgezeichnet werden soll.

Les dessins montrent la dernière construction des différentes parties. Il se peut exceptionnellement qu'une de vos parties ne corresponde pas exactement à celle du dessin. En ce cas indiquez-nous dans votre ordre quel est le détail différent.

Au dos de la couverture vous trouverez des feuilles de commande. Elles sont transparentes au cas où un détail a besoin d'être copié.

Los dibujos muestran el último sistema de fabricación de las diferentes partes. Por una excepción puede suceder que la parte que haya de cambiarse no sea exactamente igual a la del dibujo. En tal caso, indíquese en la hoja de pedido que el detalle tiene aspecto diferente.

Al final de la carpeta hay varias hojas de pedido. Son transparentes para el caso en que algún detalle necesite calcarse.

Repair guide for the camera body

C

Fault	Possible Causes
C1 <i>Knob cannot be wound, mirror stays up.</i>	<ol style="list-style-type: none"> 1 Clutch components on shaft (P.5 for 20537) strike against each other, while curtains have not travelled fully. 2 Release assembly (P.3 20526) behind shutter-release-button is stuck.
C2 <i>Knob cannot be wound, mirror is partly down.</i>	<ol style="list-style-type: none"> 1 Lifting-stud (P.6 on 12150) stuck against stud on L-arm (P.3 12046). 2 Broken teeth on gear-wheels. 3 Mirror interferes against lens mounting. 4 Pawl for middle gear-wheel (P.7 12087) slips, due to loosened rivet.
C3 <i>Knob cannot be wound, mirror is down, shutter-curtains partly wound.</i>	<ol style="list-style-type: none"> 1 Broken brake (P.5 12605 and/or 12606) in spring assembly. 2 Shutter mechanism (P.3) blocked or stuck.
C4 <i>Knob can be wound normally. Mirror goes down but curtains do not wind; or else the shutter curtains are released immediately.</i>	<ol style="list-style-type: none"> 1 Clutch components (P.5 on shaft 20537) broken. 2 Catch (P.6 on 12160) does not engage on part P.9 12162. 3 Mirror release arm (P.7 12103) is loose or works stiffly. 4 Mirror-winding-arm (P.2 20688) in knob-mechanism is loose.
C5 <i>Button release does not function. Curtains fully wound but full knob-winding action cannot be completed.</i>	<ol style="list-style-type: none"> 1 Clutch (P.5 on shaft 20537) engages a half revolution (or more) too early, after fault C9 has occurred.
C6 <i>Button release does not function. Mirror completely down.</i>	<ol style="list-style-type: none"> 1 A fault somewhere in the transmission from winding-knob to lowest gear-wheel in the mechanism. Knob movement for time-setting in faulty position. 2 Mirror release-arm (P.7 12103) is loose or works stiffly. See C4-3.
C7 <i>Automatic exposure action has begun, but cannot continue. Mirror in partly UP-position.</i>	<ol style="list-style-type: none"> 1 Mirror is loose. This usually applies to the whole group (P.6 12652, 20572, 12761, 20651, 12630) - because the shaft (P.6 12187) has become disengaged from its coupling (P.6 20530). 2 Mirror winding-arm (P.2 20688) does not function correctly with the winding-knob (P.2 20520). 3 Mirror drags against corrugated side walls. 4 Lifting stud (P.6 on 12150) stops against stud on L-arm (P.3 12046); see C2-1. 3-claw device (P.3 20539) works stiffly. 5 Obstruction in winding-knob mechanism (P.2).
C8 <i>Automatic exposure action has begun, but cannot be completed. Mirror has returned to the UP-position.</i>	<ol style="list-style-type: none"> 1 Spring for 1st curtain broken (right coil-spring (P.5 12367). 2 Obstruction in shutter mechanism (P.3).
C9 <i>Curtains do not give an exposure, or curtain stops within picture area.</i>	<ol style="list-style-type: none"> 1 Lock (P.3 20539 in shutter mechanism deformed. 2 Jump in bevelled timing-gears (P.3 12048 and P.7 12119). 3 Loose bevelled gear-wheel (P.3 12048) on time-setting-shaft (P.3 12050). 4 Broken curtain-spring (compare with C8-1 and C13-2). 5 Delay-action mechanism (P.4 or 4a) slips or races.

Continued

Fault	Possible Causes
C10 <i>Curtains give uneven or wrong exposure.</i>	<ol style="list-style-type: none"> 1 Stiffness in spring-housing (P.5 12158), curtain shafts, rollers, or shutter-mechanism (P.3). 2 Broken spring-catch, visible, but not numbered, to the right of washer (P.3 D-3,55×6,5×A). 3 Creases, dents or other defects in curtains. ✓ 4 Pin in curtain clutch component (P.5 on shaft 20537) out of position. 5 Space between curtains and spring-power needs adjusting.
C11 <i>Under-exposed strip on the negative at the edge opposite the two small notches (that is, under-exposed at the end of exposure).</i>	<ol style="list-style-type: none"> 1 First curtain (P.5 20537) bounces.
C12 <i>Over-exposed strip on the negative at the edge opposite the two small notches (that is, over-exposed at the end of exposure).</i>	<ol style="list-style-type: none"> 1 Second curtain (P.5 20538) bounces.
C13 <i>Shutter aperture remains open after completing release action.</i>	<ol style="list-style-type: none"> 1 Second curtain (P.5 20538) split. 2 Broken coil-spring (P.5 12367 to the left) of second curtain (P.5 20538). 3 Brake for second curtain out of position. 4 Delay-action mechanism (P.4) does not release the second curtain.
C14 <i>Red-white signal does not change.</i>	<ol style="list-style-type: none"> 1 Signal (P.7 20515) works stiffly, or else connecting springs (P.7 VF 40, VF 41) are defective. 2 Release assembly (P.3 20526) behind shutter release-button does not return fully to its "ready" position (compare C1-2).
C15 <i>Film winding trouble.</i>	<ol style="list-style-type: none"> 1 Gear-wheel (P.7 12092) in camera does not mesh with, but strikes top of, teeth of gear-wheel (P.12 12216) in film magazine. 2 Catch (P.12 12308) in film magazine is not released by plunging-rod (P.7 12336) in camera.
C16 <i>Ground-glass image not sharp but blurred.</i>	<ol style="list-style-type: none"> 1 Mirror does not go fully down to its supports (compare C7-3). 2 Mirror is loose (compare C7-1). 3 Ground-glass (P.6 20548) and Ektalite-field lens (P.6 12360) in wrong position. 4 Ground-glass (P.6 20548) and Ektalite-field lens (P.6 12360) defective.
C17 <i>Lens cannot be locked, or has too much play.</i>	<ol style="list-style-type: none"> 1 Screw-threads damaged. 2 Lens lock-release device (P.9 12653) defective.
C18 <i>Film magazine does not lock securely, or has too much play.</i>	<ol style="list-style-type: none"> 1 Defective back frame (P.9 40102) in camera housing. 2 Double hooked top clasp (P.6 12178) defective. 3 Bottom hooks (P.1 12184) loosened from their rivets.
C19 <i>Sports view-finder does not engage properly in bracket on camera body.</i>	<ol style="list-style-type: none"> 1 Bracket (P.1 20571) defective.
C20 <i>Synchronization faults.</i>	<ol style="list-style-type: none"> 1 Synchronization wrongly set. 2 No contact made. 3 Short circuit.

Fault	Possible Causes
C21 Defects in appearance.	<ol style="list-style-type: none"> 1 Camera body. 2 Lens socket (P.1 30248) 3 Winding-knob (P.2 20520) 4 Bracket (P.1 20571). 5 Covering. 6 Creases on the curtains.
C22 General overhauling.	<ol style="list-style-type: none"> 1 Adjustments, compare with C10-5. 2 Rebuilding.

Repair Guide for the Film Magazine

Fault	Possible Causes
M1 Scratches on the film.	<ol style="list-style-type: none"> 1 Focal-plane rollers defective. 2 Film passes over the focal plane with insufficient freedom.
M2 Light leakage.	<ol style="list-style-type: none"> 1 Defective light-traps (P.12 12253, 12382, 12259, 12260) for magazine safety-slide (P.12 12519). 2 Light leaks in D-shaped track between spool-holder cover and magazine. 3 Light leaks between magazine body (P.12 20709) and front plate (P.12 12551). 4 Pinhole defects in die-casted magazine body.
M3 Magazine loose or stuck.	<ol style="list-style-type: none"> 1 Loose locking-pin located in the center of plate (P.12 30223). 2 Defective locking-bar (P.11 12357).
M4 Magazine does not lock on the camera body.	<ol style="list-style-type: none"> 1 Locking-bar (P.12 12251) does not function properly. 2 Catch (P.12 12257) works stiffly and obstructs locking-bar (P.12 12251).
M5 Magazine has play after being locked to camera body.	<ol style="list-style-type: none"> 1 Locking-bar (P.12 12251) fits in too deeply upon double-hooked top-clasp (P.6 12178). 2 Play in slots fitting over bottom hooks (P.1 12184).
M6 Movement from winding-knob does not advance the film.	<ol style="list-style-type: none"> 1 Gear-wheel (P.12 12216) does not spring back (compare C15-2). 2 Spline-couplings (between P.11 12552 and P.12 12209) defective or not in alignment. 3 Sheared pin in spline-coupling (P.11 12552).
M7 Wrong film spacing (has the customer checked that magazine has been started at numeral 1?).	<ol style="list-style-type: none"> 1 Defective number-spacing arm (P.12 12230). 2 Counter-dial (P.12 12220) loosened from its riveted hub. 3 Defective catch (P.12 12224) for counter-dial (P.12 12220).
M8 Film cannot be wound on loading.	<ol style="list-style-type: none"> 1 Broken coupling-spring (P.12 on 12206). ✓ 2 Film winds obliquely because film guide is missing. 3 Spline-coupling defective, or spline-coupling casing (P.12 in 12209) slips. 4 Pin in spline-coupling (P.11 12552) is sheared off (compare M6-3).

Continued

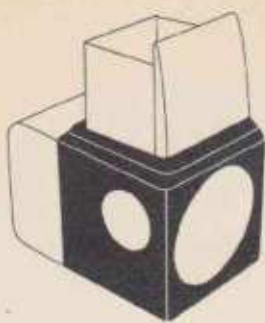
Fault	Possible Causes
M9 Red-white signal does not change.	<ol style="list-style-type: none"> 1 Signal (P.12 12235) works stiffly. 2 Spring (P.12 DF-57) not in place.
M10 Counter-dial does not stop at numeral 1.	<ol style="list-style-type: none"> 1 Catch (P.12 12241) does not function. 2 Broken coupling-spring (P.12 VF-27) on center gear-wheel (P.12 12204). 3 Counter-dial (P.12 12220) loosened from its riveted hub (compare M7-2).
M11 Defects in appearance.	<ol style="list-style-type: none"> 1 Magazine body. 2 Magazine front-plate (P.12 12551). 3 Covering.
M12 General overhauling.	<ol style="list-style-type: none"> 1 Adjustments. 2 Rebuilding.

Repair Guide for Lenses

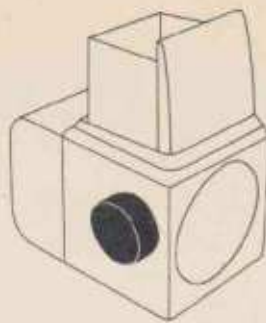
Fault	Possible Causes
L1 Pre-selecting diaphragm-ring does not function.	<ol style="list-style-type: none"> 1 Ball catch does not function.
L2 Focussing-ring works stiffly.	<ol style="list-style-type: none"> 1 Stiffness in screw-threads.
L3 Lens does not fit into camera.	<ol style="list-style-type: none"> 1 Diameter (nominally 56.80 mm) is wrong. 2 Locating-screw on lens is too long.
L4 Lens cannot be locked to the camera.	<ol style="list-style-type: none"> 1 Locating-screw has become loose. 2 Locating-screw wrongly located. 3 Locating-screw is too short.

Repair Guide for the Hood

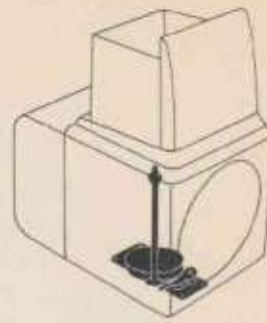
Fault	Possible Causes
H1 Outside hood cover does not rise.	<ol style="list-style-type: none"> 1 Frame (P.10 20669) twisted. 2 Hood assembly not fully home in its tracks. 3 Jointed (P.10 12538) arms of wrong length.
H2 Cover opens too easily.	<ol style="list-style-type: none"> 1 Button-catch (P.10 20613) does not grip sufficiently. 2 Spring (P.10 12428) is defective.
H3 Magnifying lens does not rise.	<ol style="list-style-type: none"> 1 Magnifying lens is loose. 2 Spring (P.10 VF-57) is defective.
H4 Magnifying lens rises when hood is opened.	<ol style="list-style-type: none"> 1 Defect in button-catch.
H5 Magnifying lens rises too high.	<ol style="list-style-type: none"> 1 Wire strut (P.10 12546) too long or loose.
H6 Defects in appearance.	<ol style="list-style-type: none"> 1 Outside hood cover (P.10 12548). 2 Side and back panels. 3 Covering (P.10 12148, 12149).



Camera Case. 1



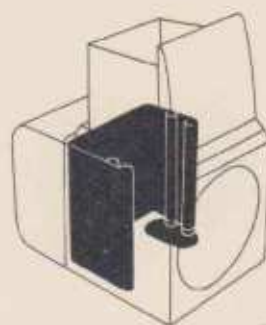
winding Knob Mech. 2



Shutter Mech. 3



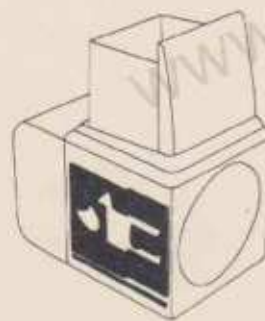
Delay-action Mech. 4



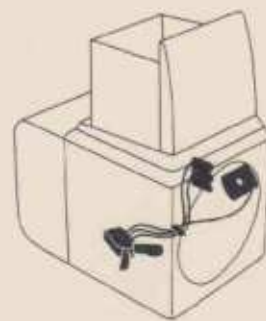
Curtains 5



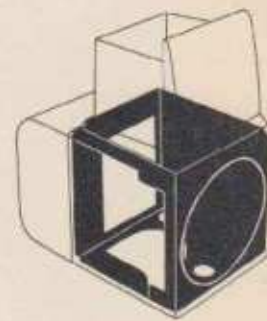
Mirror, Ground Glass 6



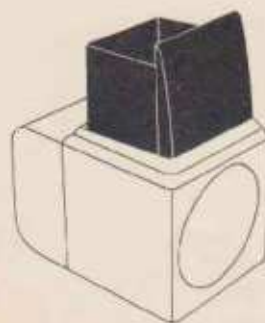
Side Plate 7



Sync. unit 8



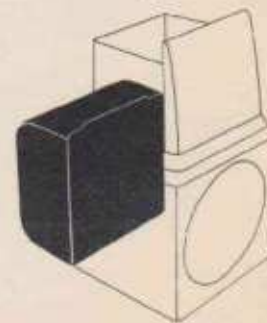
Camera Housing 9



Hood 10



Mag. Roll-holder 11



Magazine 12

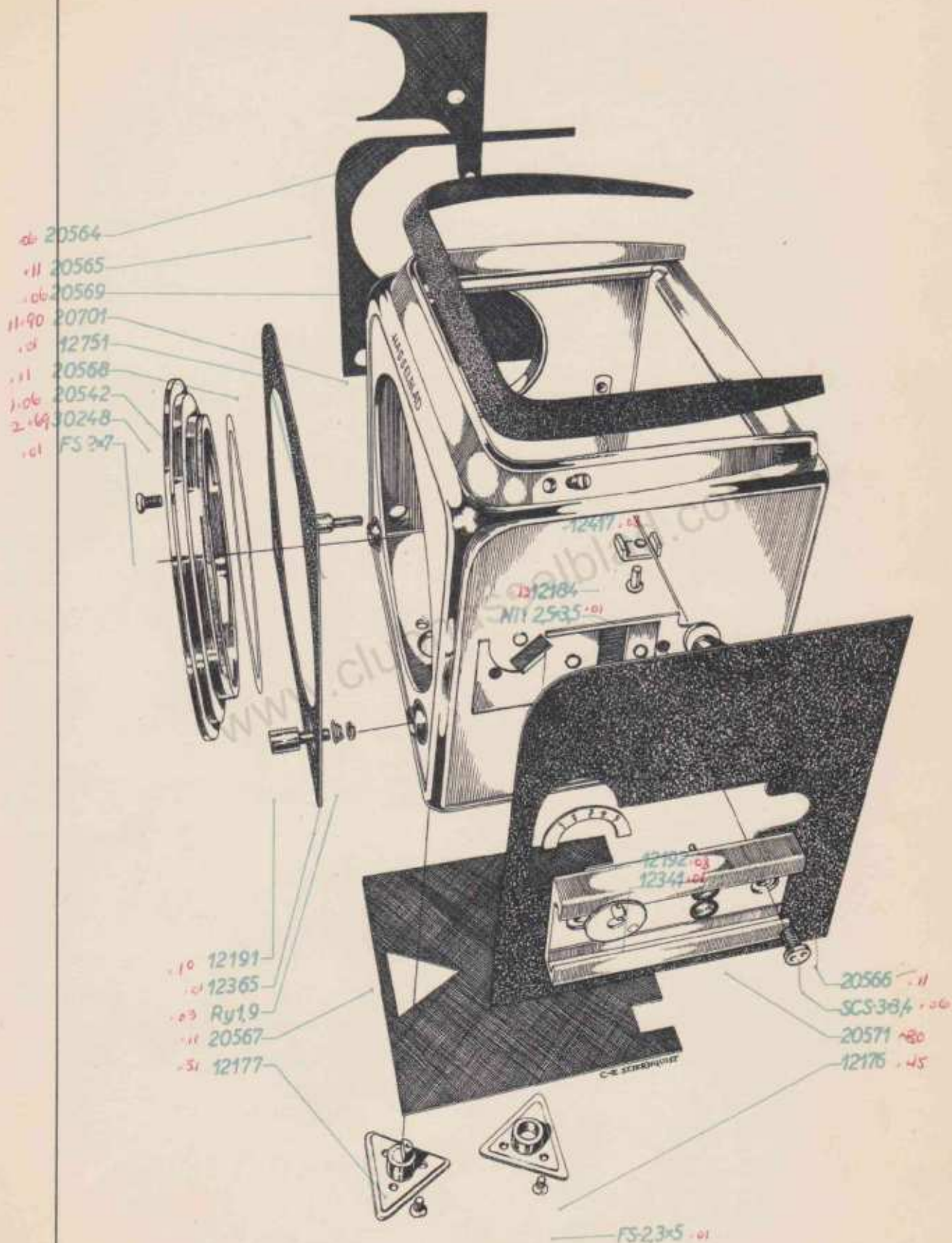
12184	(2)		
12191			
12365	(2)	20701	
12751		20564	
Nit-2.5×3.5	(2)	20565	
Ry-1.9	(2)	20566	
		20567	
		20568	
		20569	
		12192	
		12417	(2)
		30216	-18.45
		30248	
		20542	(2)
		20571	
		12176	
		12177	
		12341	
		FS-2×7	(4)
		FS-2.3×5	(3)
		FS-2.3×6	(3)
		SCS-3×3.4	(2)

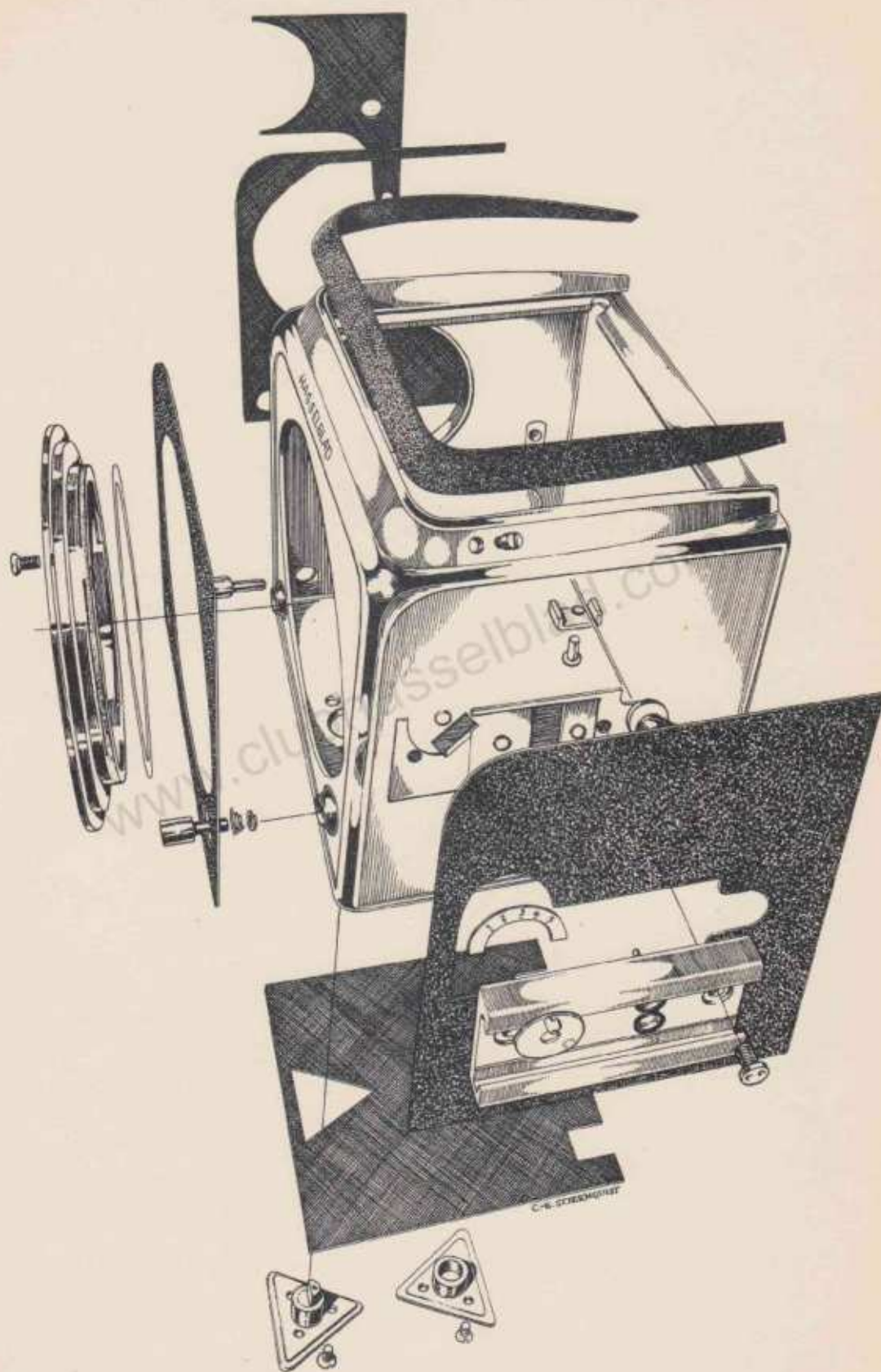
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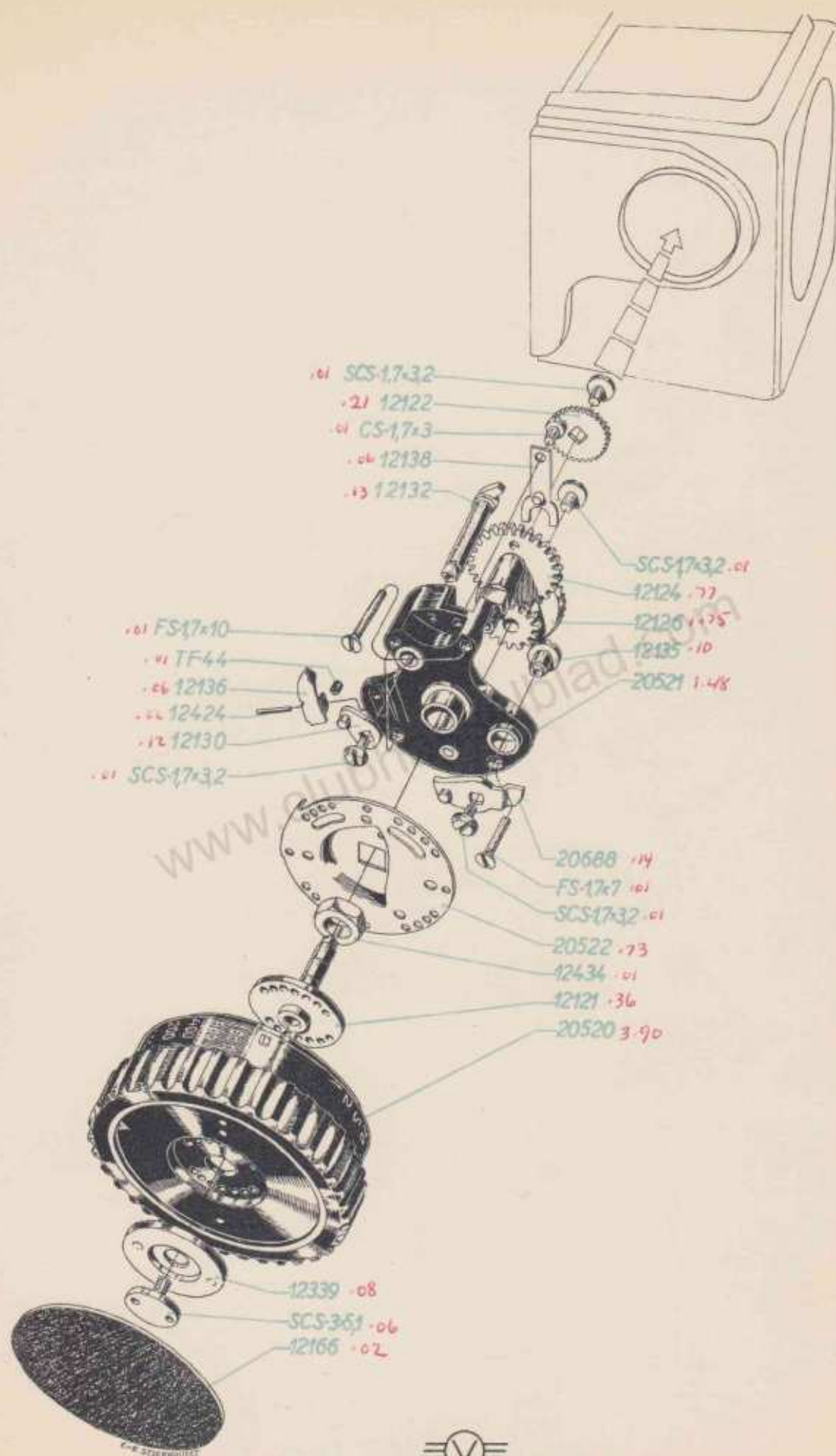
20522		
20688		
12121		
12122		
12124		
12126		
12130		
12132		40106 - 4.89
12135		20520 -
12138		12166 -
12136	12425 - 2.04	12339 -
12424	12434	SCS-3x5.1
TF-44	CS-1.7x3	
	FS-1.7x7	
	FS-1.7x10 (3)	
	SCS-1.7x3.2 (4)	

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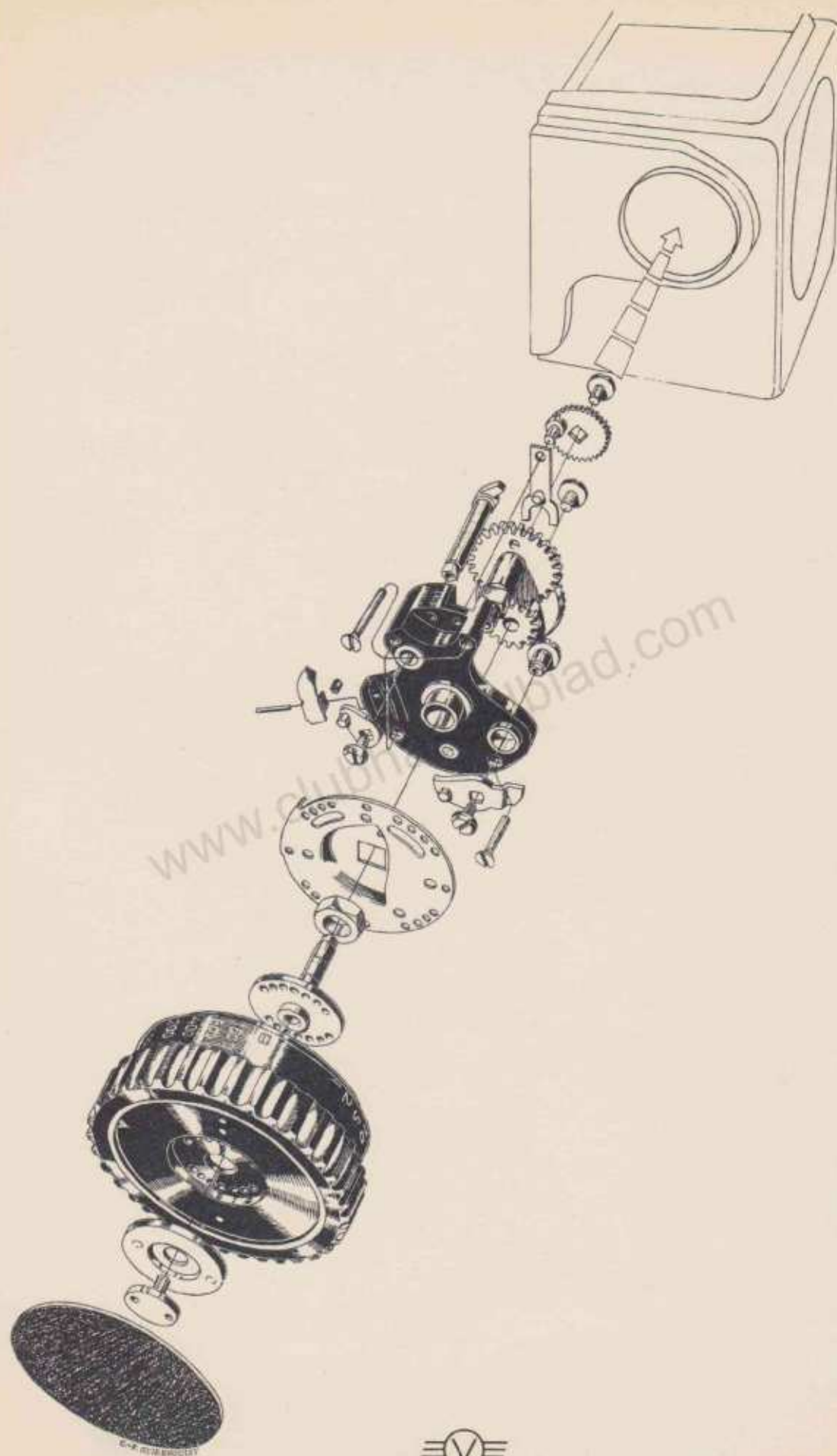
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1953-IV



12046			
12048		20500	
12049		20502	
12050		20508 - 1.68	
D-2.55×4.5×0.3		20526	
S-0.8×4		20539	
S-1×4.5	(2)	12044	
TF-53		12045	
		12051	
		12615×A	30231 - 19.85
		12640	FS-1.7×2.5 (5)
		D-2.25×4×0.2 (2)	
		D-2.55×4.5×0.05	
		D-3.55×6.5×A	
		D-4.05×6.5×0.2	
		D-4.6×10×0.05	
		Ry-1.5	(2)

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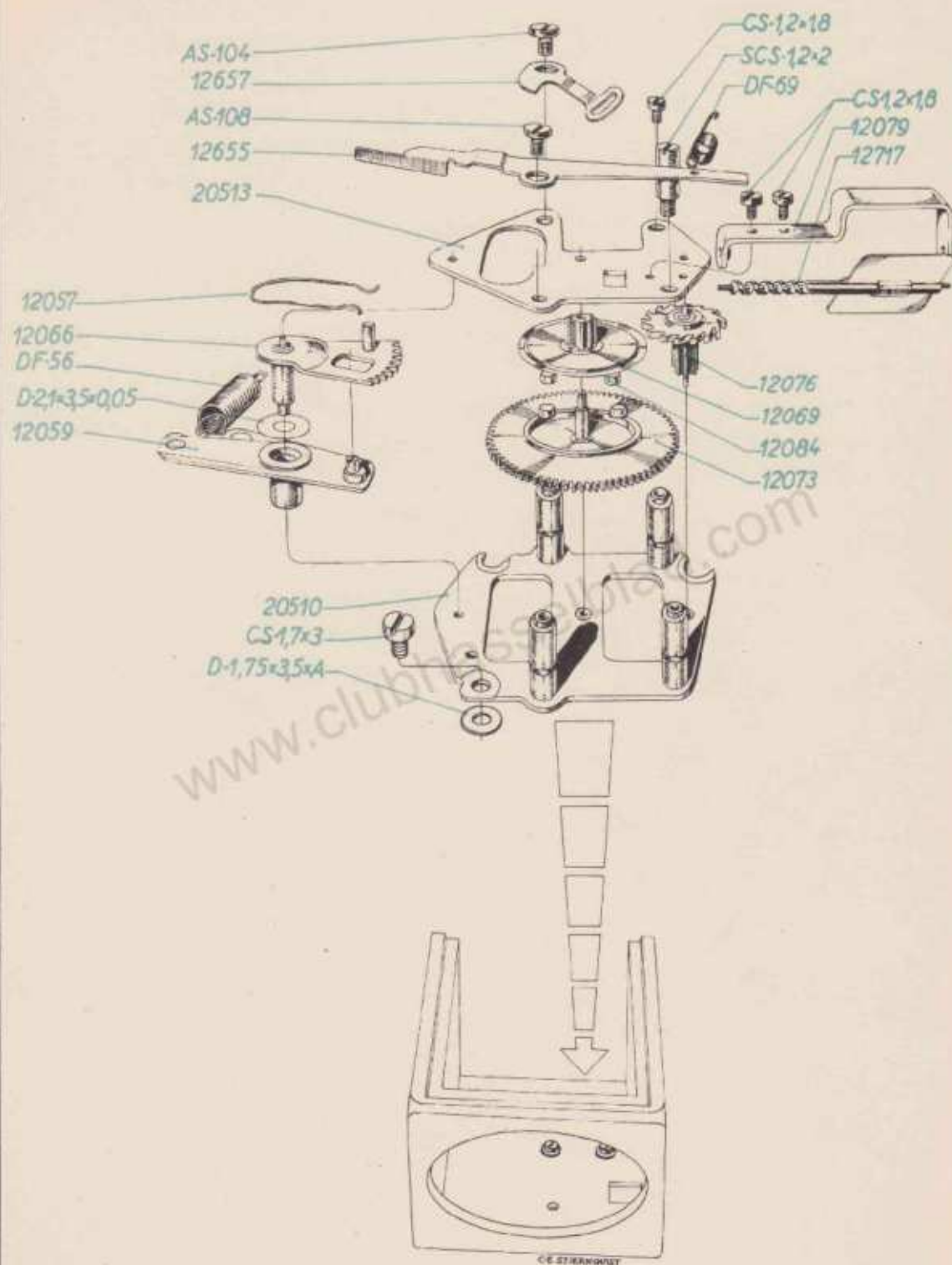
20510	
20513	
12057	
12059	
12066	
12069	
12073	
12076	
12079	
12084	(4)
12655	20509 4.61
12657	CS-1.7×3
12717	D-1.75×3.5×A
AS-104	
AS-108	
CS-1.2×1.8	(3)
D-2.1×3.5×0.05	
DF-56	
DF-69	
SCS-1.2×2	

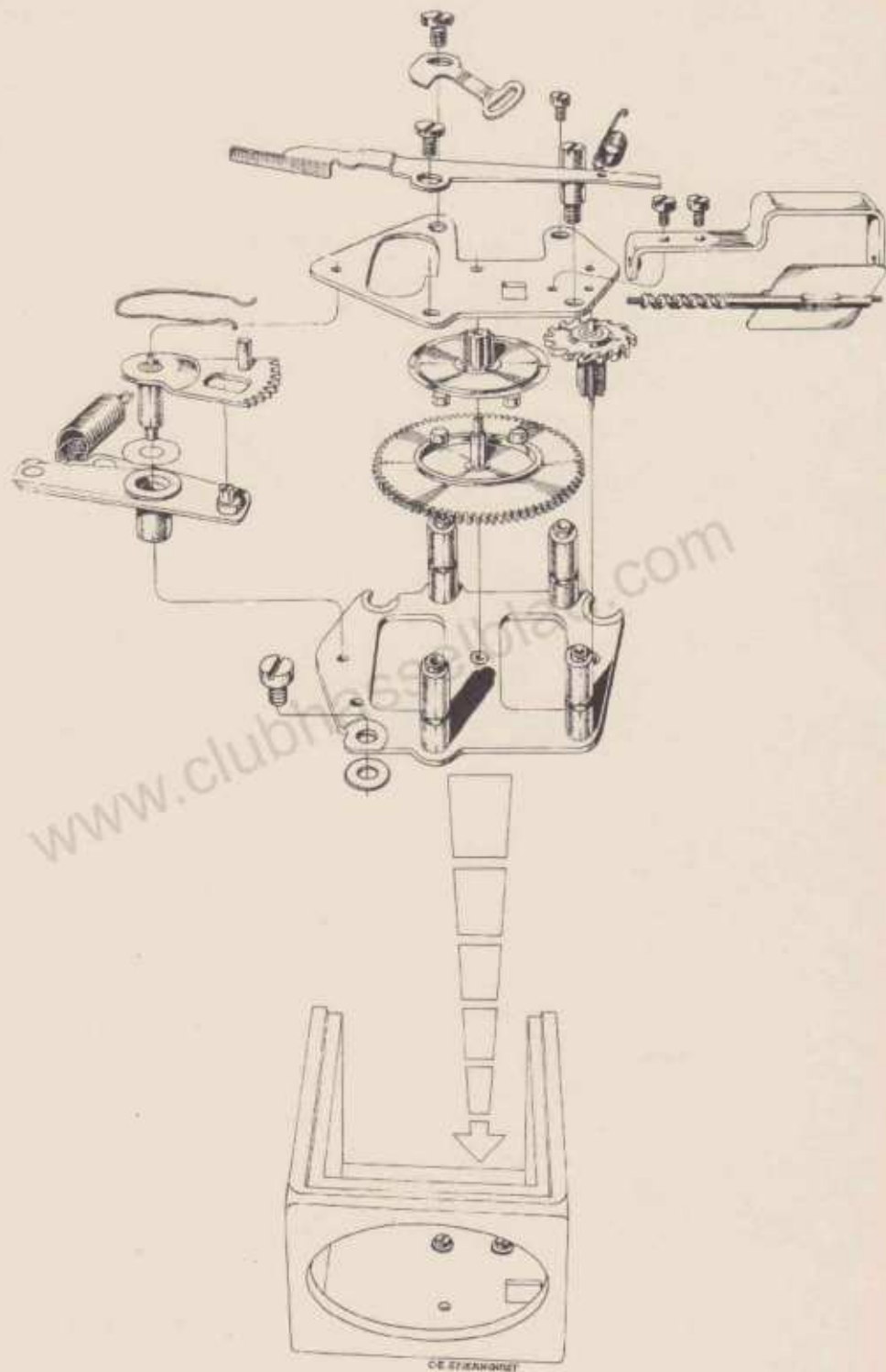
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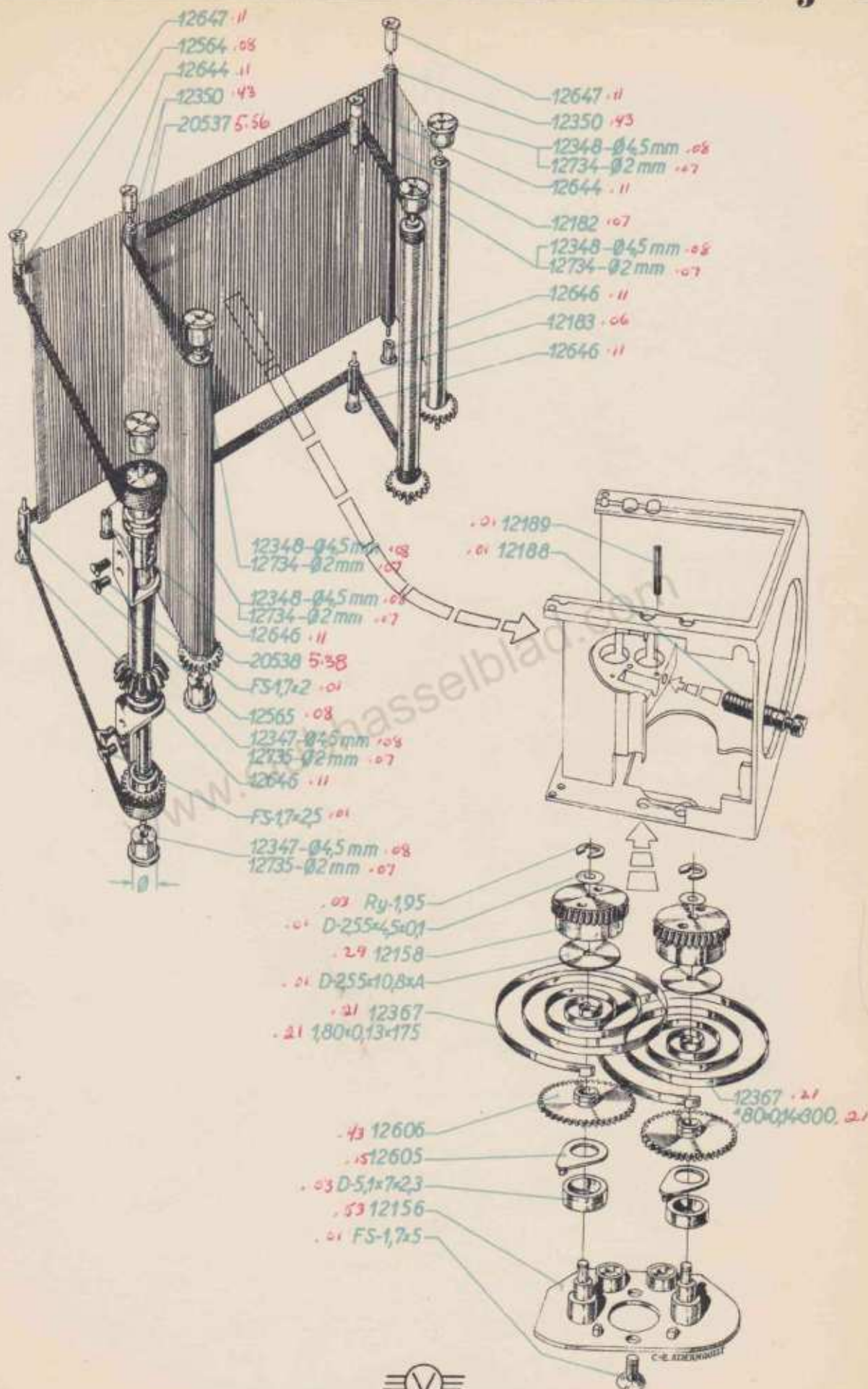
12156			
12158	(2)		
(12367			
(1.8×0.13×175)			
(12367			
(1.8×0.14×300)			
12605	(2)	20537	
12606	(2)	20538	
D-2.55×4.5×0.1	(2)	12155-458	
D-2.55×10.8×A	(2)	12182	
D-5.1×7×2.3	(2)	12183	
Ry-1.95	(2)	12188	(2)
		12189	(2)
		12347 ø 4.5 mm	(2)
		12348 ø 4.5 mm	(4)
		12350	(2)
		12564	
		12565	
		12644	(2)
		12646	(4)
		12647	(2)
		12734 ø 2 mm	(4)
		12735 ø 2 mm	(2)
		FS-1.7×2	(2)
		FS-1.7×2.5	(2)
		FS-1.7×5	(2)

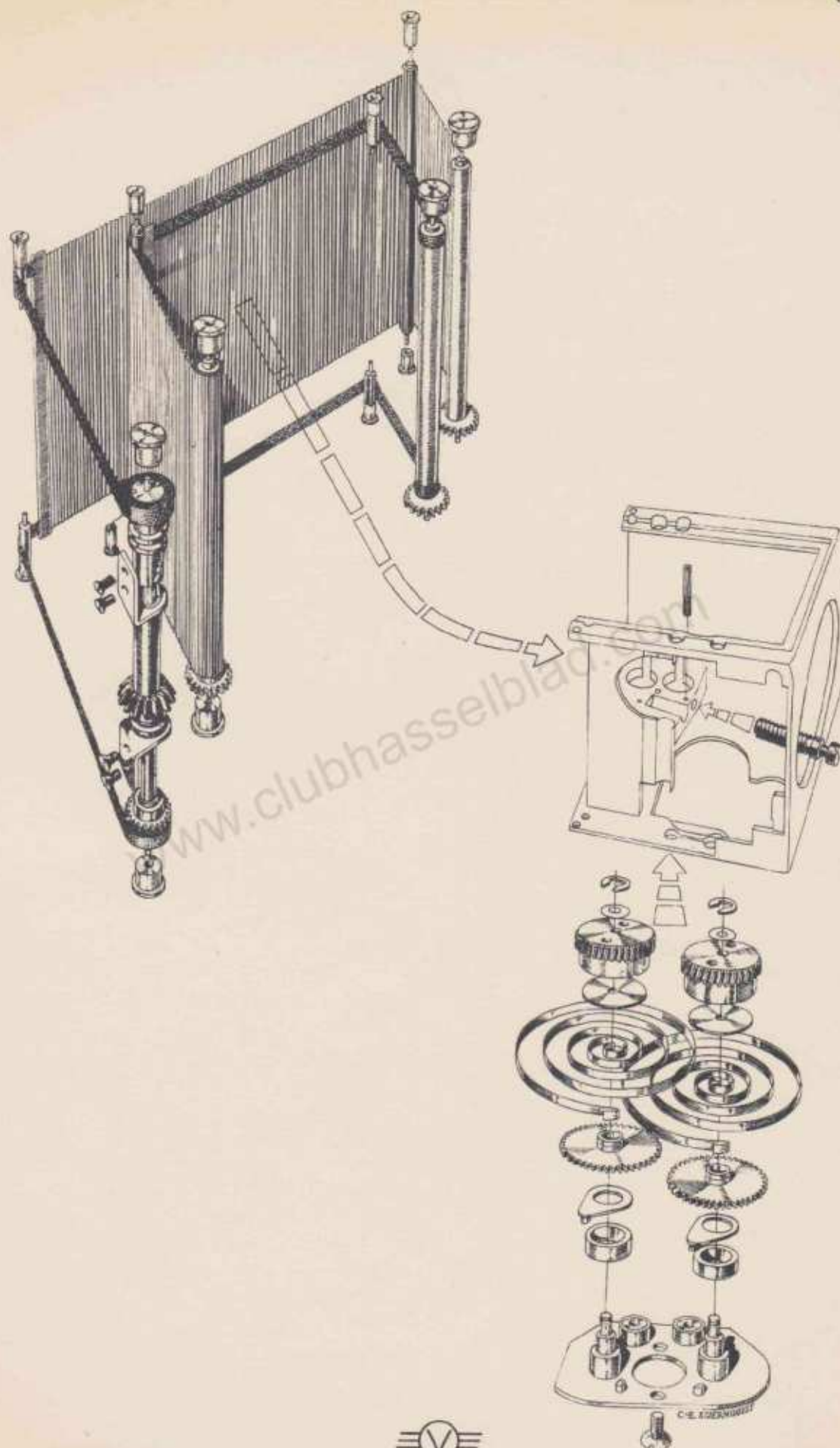
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20530	}	
12150		
12598		
12599		20529 1158
B6M-1.7		20545
VF-16		20548
VF-42		

20572	}	
20651		
12187		
12630		20653 2-65
12652		
12761		
Ry-1		

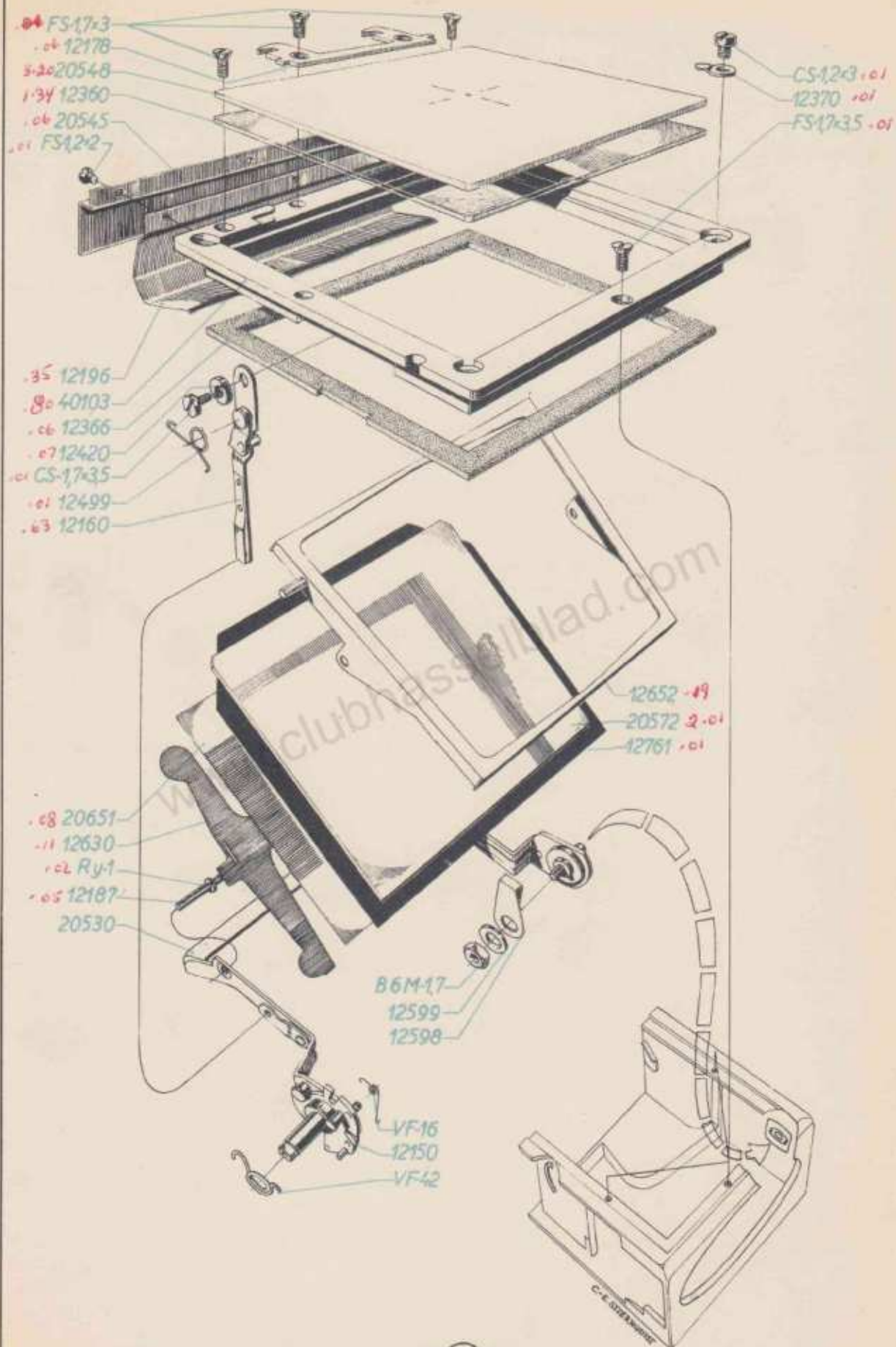
40103	}	20703 186
12366		
		12160
		12178
		12196
		12360
		12370 (4)
		12420
		12499
		CS-1.2×3 (4)
		CS-1.7×3.5
		FS-1.2×2 (3)
		FS-1.7×3 (4)
		FS-1.7×3.5 (3)

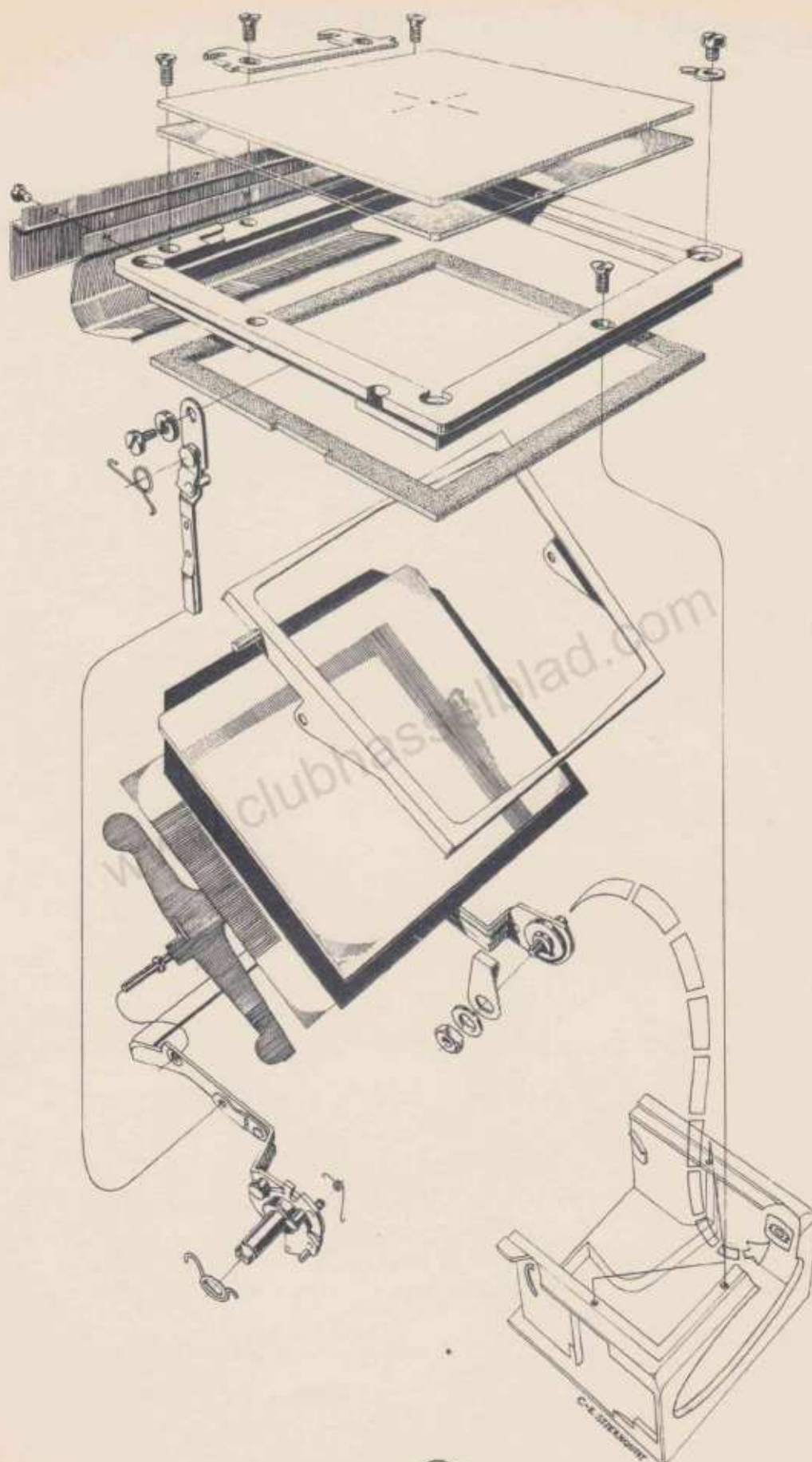
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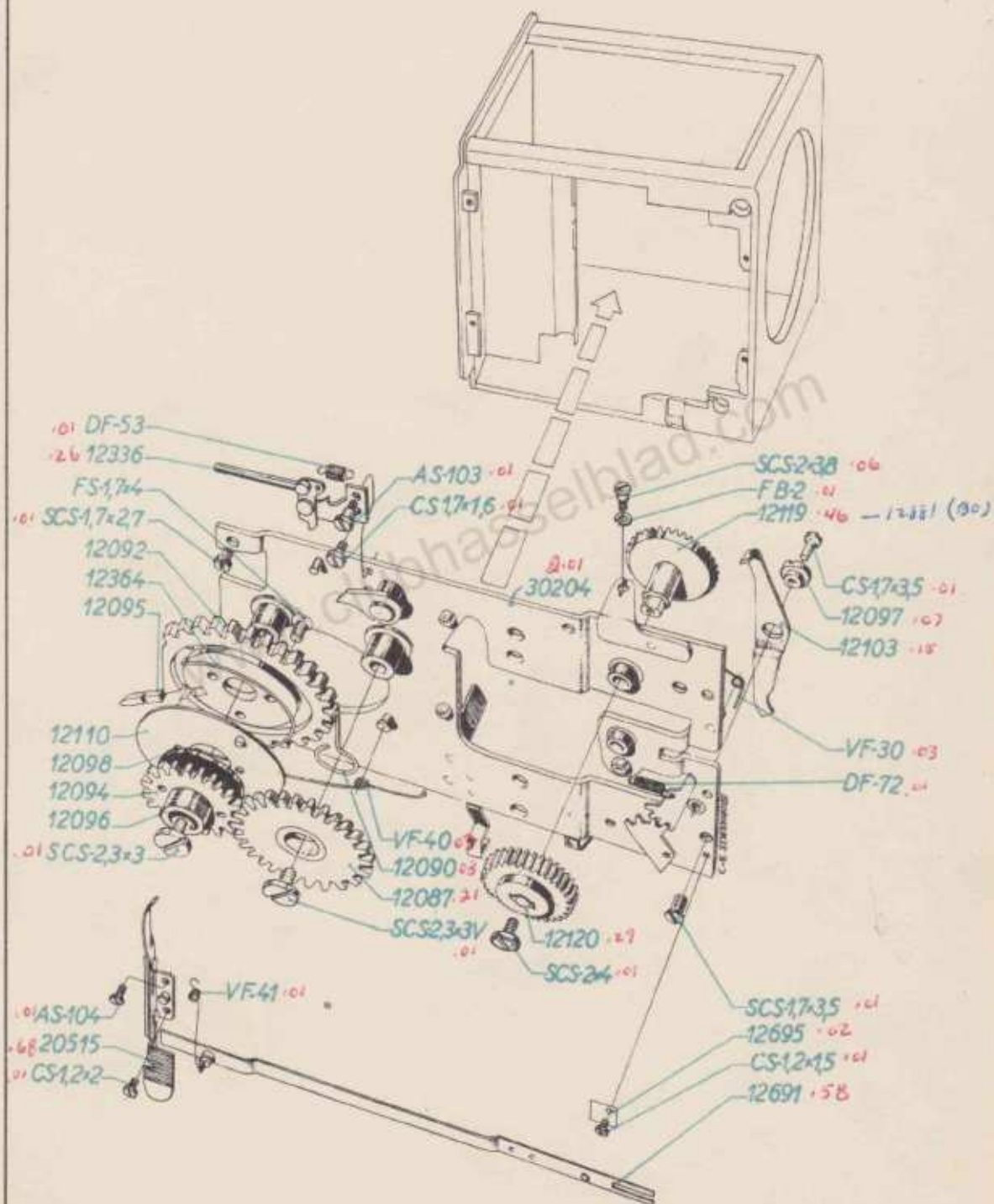
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12094	12087	
12095	12090	
12096	12091 <i>1.65</i>	
12098	12097	
12110	12103	
12364	12119	
F5-1.7×4 (2)	12120	
	12336	
	AS-103	30203 <i>5.66</i>
	CS-1.7×2	20515
	CS-1.7×3.5	12691
	DF-53	12695
	DF-72	AS-104
	SCS-2×4	CS-1.2×1.5
	SCS-2.3×3	FB-2
	SCS-2.3×3v	CS-1.7×1.6
	VF-30	SCS-1.7×2.7 (2)
	VF-40	SCS-1.7×3.5 (2)
		SCS-2×3.8
		VF-41

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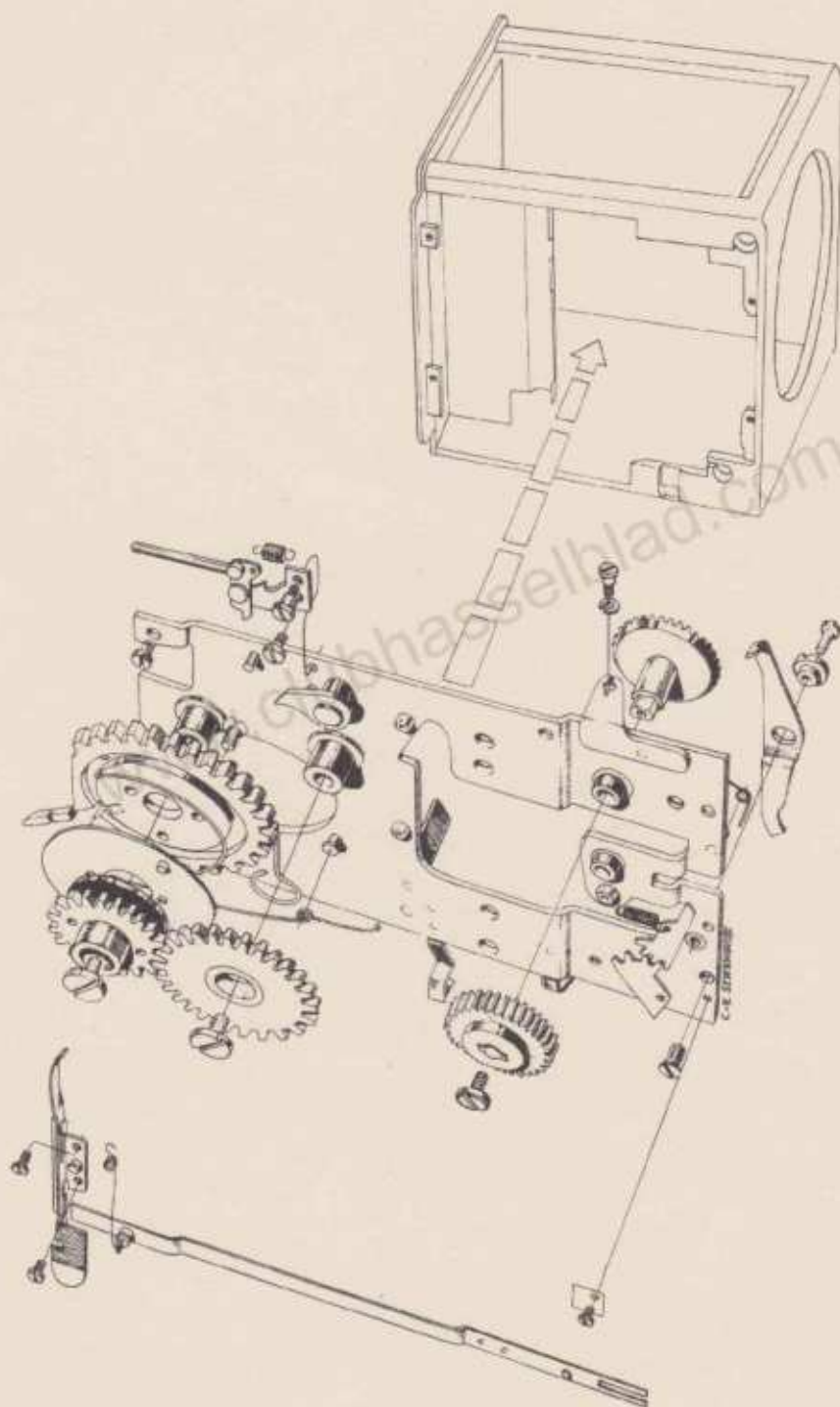
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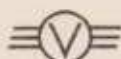
SWEDEN



30243
20517
20534
12331
12353 (2)

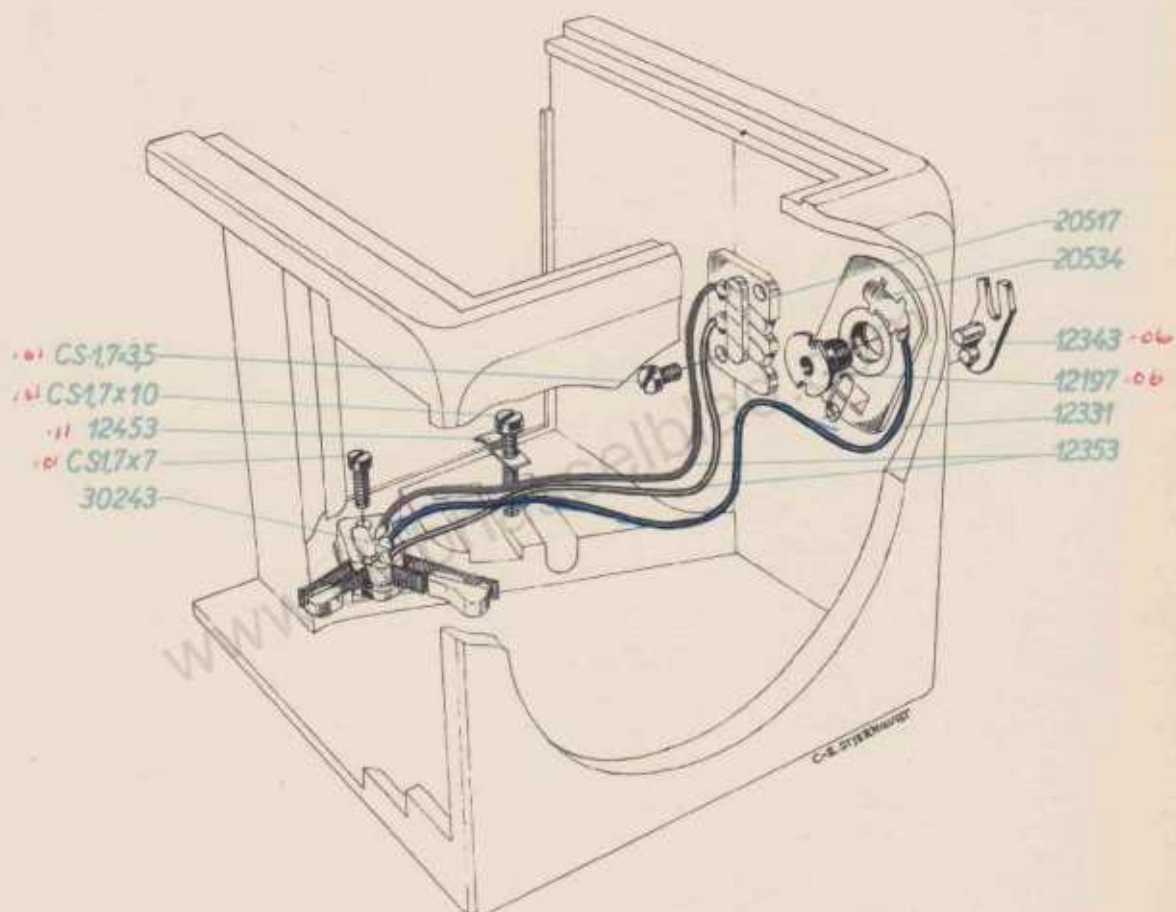
20540 1.34
12197
12343
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CS-1.7×3.5 (2)
CS-1.7×7
CS-1.7×10

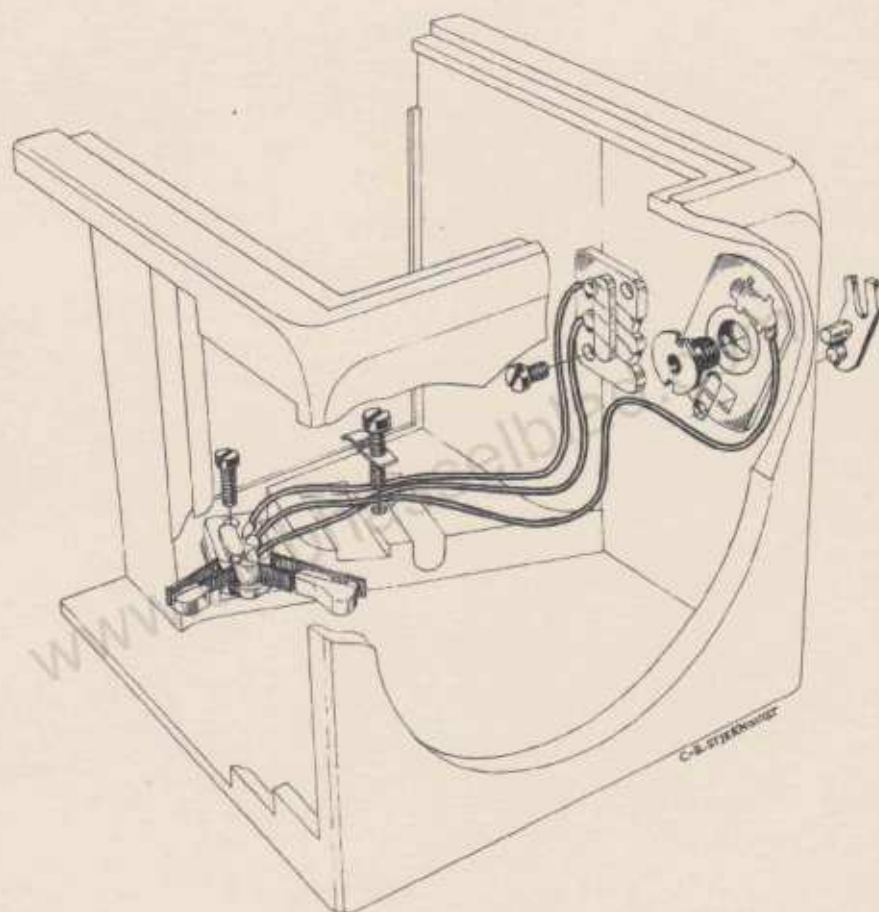
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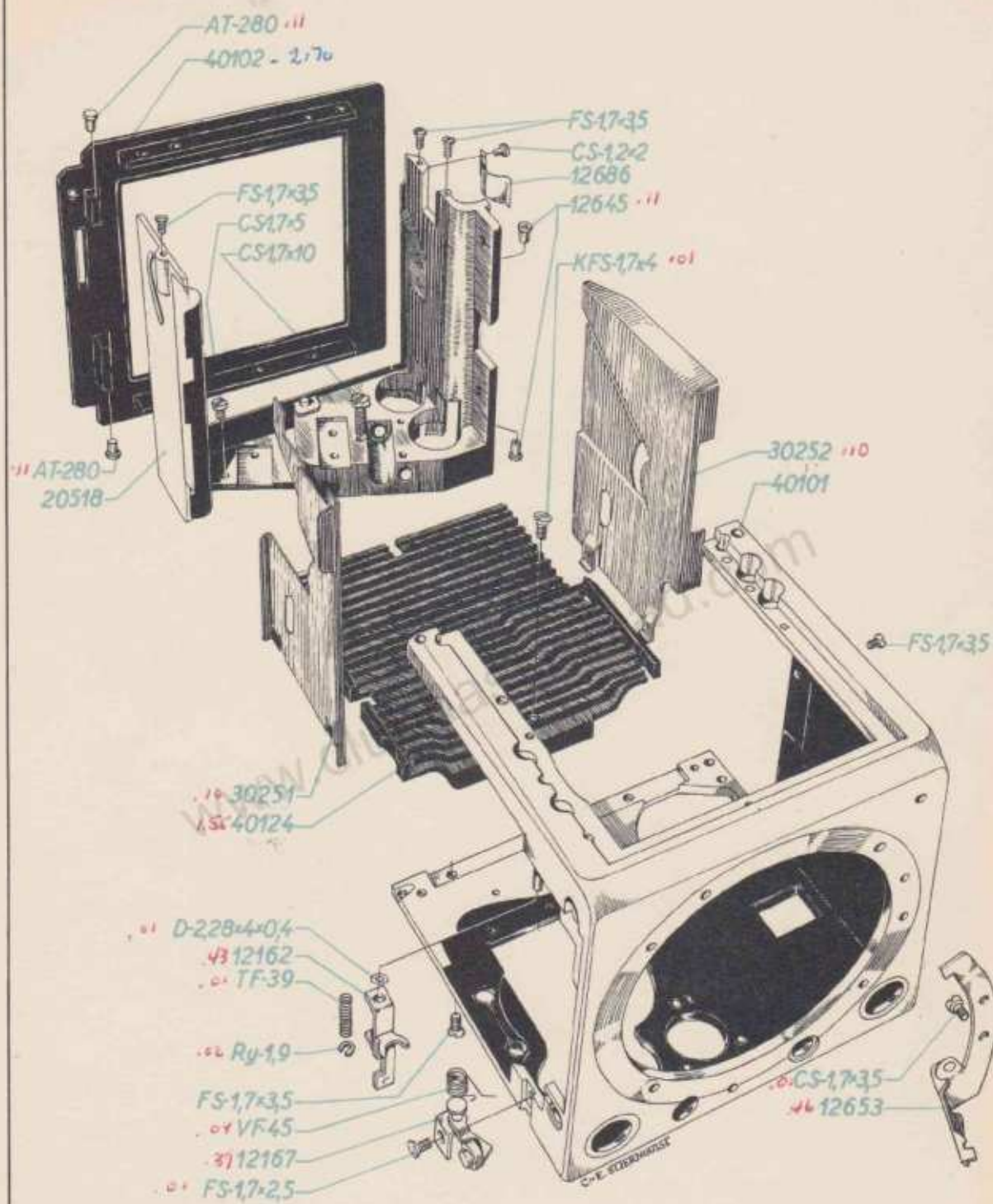
40101		40102
20518		40121 10-18
12686		40124
CS-1.2×2	(2)	30251
CS-1.7×5		30252
CS-1.7×10		12162
FS-1.7×3.5	(8)	12167
		12645
		12653
		AT-280 (2)
		CS-1.7×3.5 (2)
		D-2.28×4×0.4
		FS-1.7×2.5
		KFS-1.7×4
		Ry-1.9
		TF-39
		VF-45

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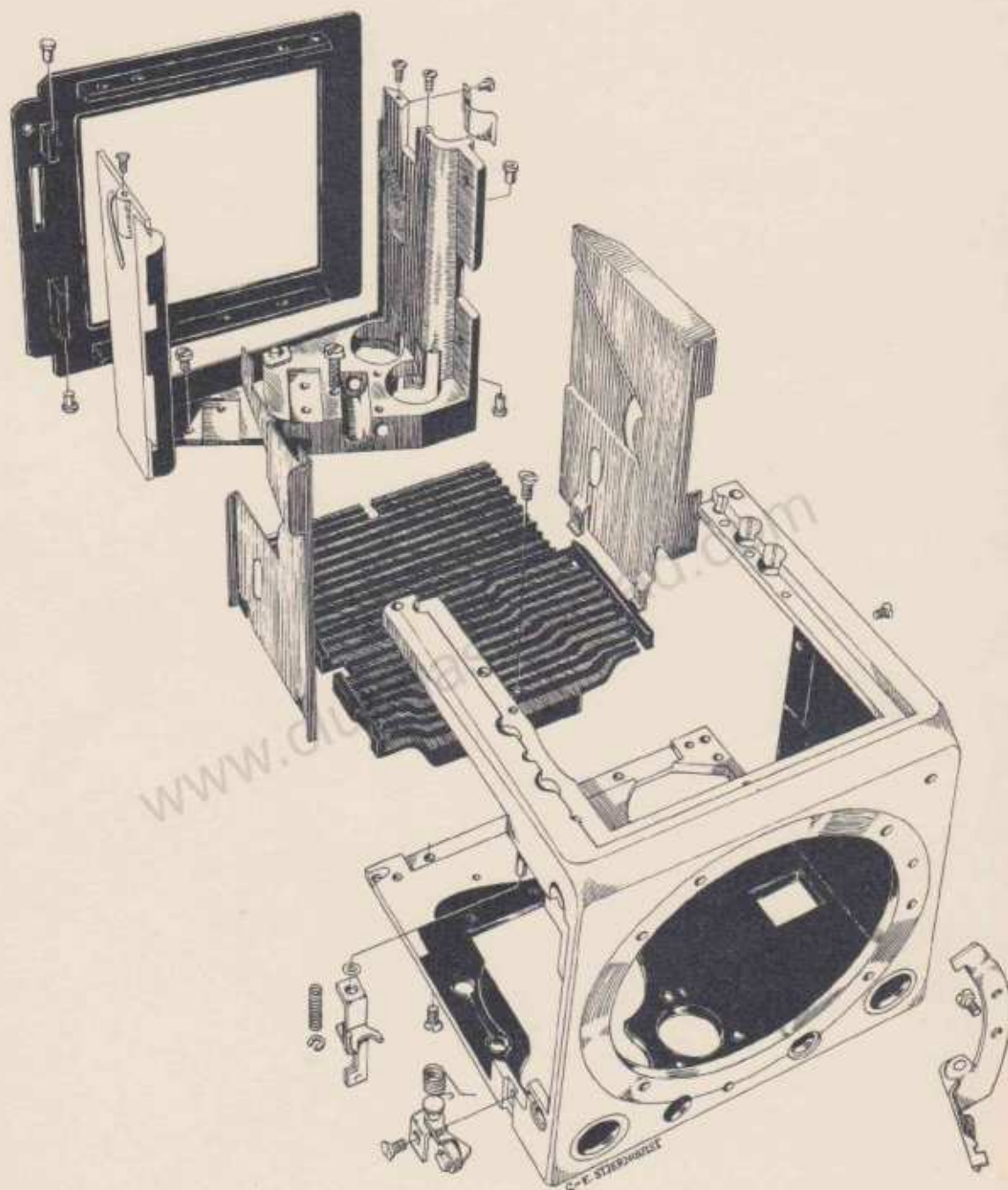
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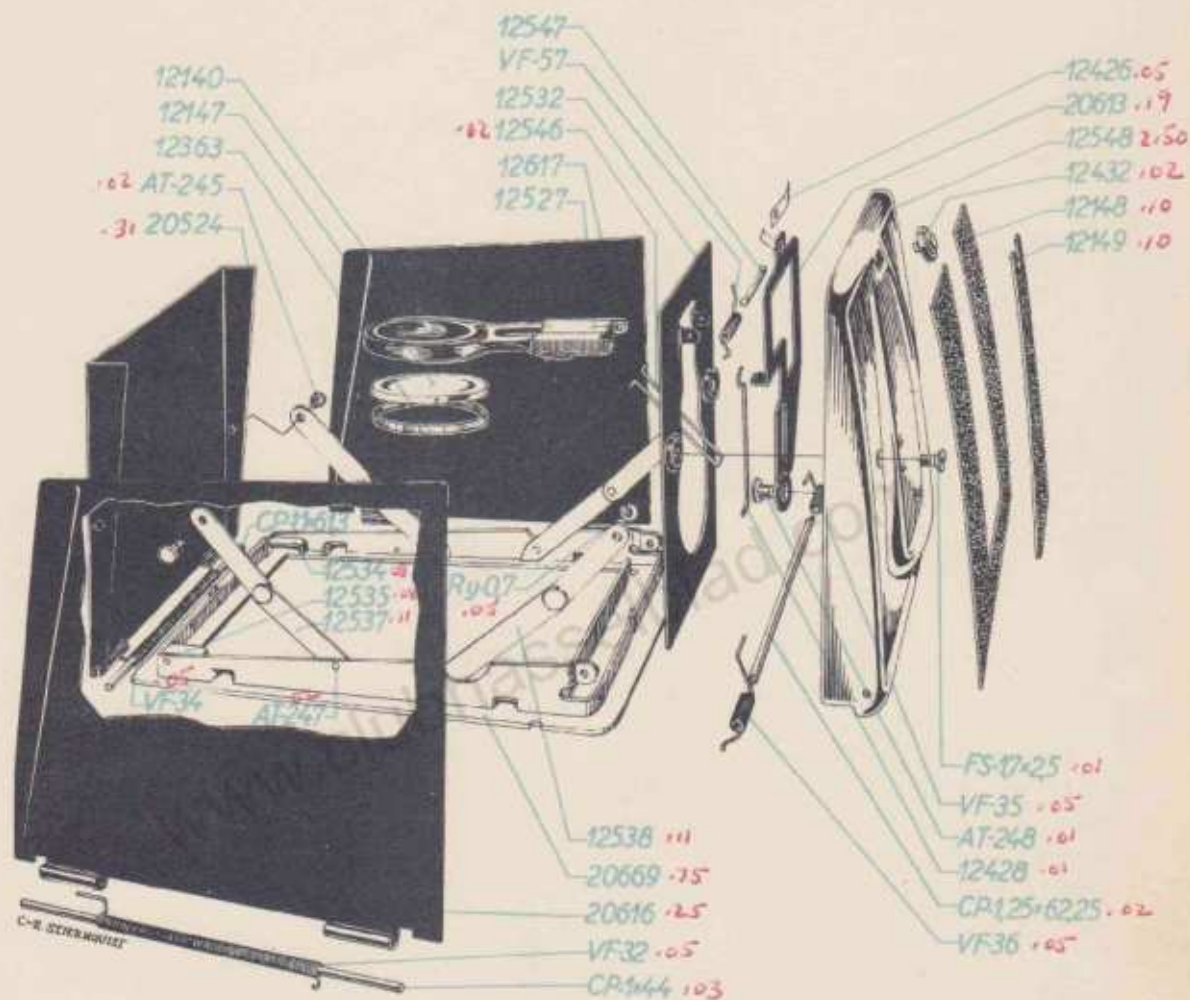


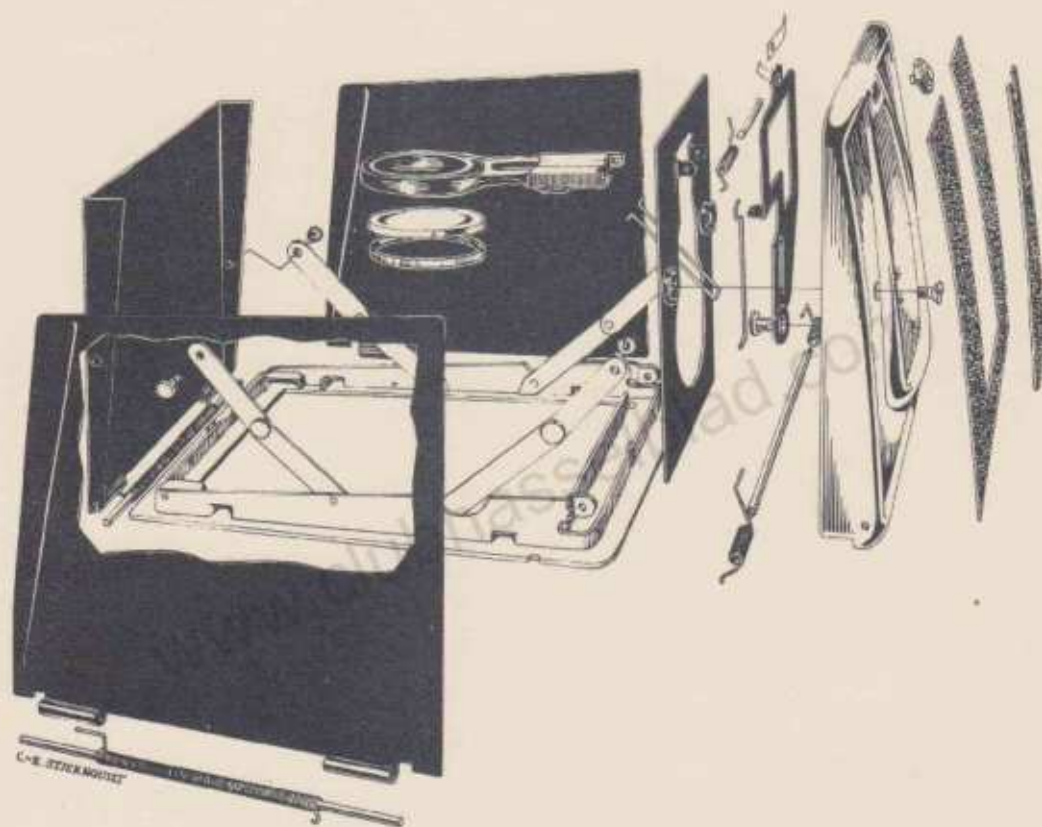
	20669		
	12537	(2)	
20613	12538	(2)	30210 4.23
12426	AT-247	(4)	
12428			
12432	20582 2.76		
12548			
AT-248			
12527			
12532	20523 55		20575 4.99
12547	12148		
VF-57	12149		
	12546		
	FS-1.7×2.5 (2)		40108 15.39
	20524		
	20616		
12140	20617		
12147	12139 1.44		
12363	12534		
	12535		
	AT-245	(2)	
	CP-1×44	(2)	
	CP-1.1×61.3		
	CP-1.25×62.25		
	Ry-0.7	(2)	
	VF-32	(2)	
	VF-34		
	VF-35		
	VF-36		



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12237 } 20553
 12289 } 20554
 } 20702 6.68

12267 }
 12288 } 12264 1.43
 SCS-1.7×2 } 12268

12269

12272

12273

12274

12307

12310

12311

12357

12536

20555 } 12540

20618 } 12543 1.79

CS-1.7×2 (2) }

40109

12279 }
 12282 } 12579 2.21
 12299 } 12629
 12552 }

AS-107 (4)

CS-1.2×3 (6)

D-2.4×6×A

D-2.4×6×0.25 (2)

D-2.4×10×0.5 (2)

D-2.55×4.5×A

D-6.5×9×0.5

FS-1.2×3 (4)

KFS-1.7×3

KFS-1.7×4 (3)

Ry-1

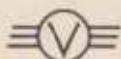
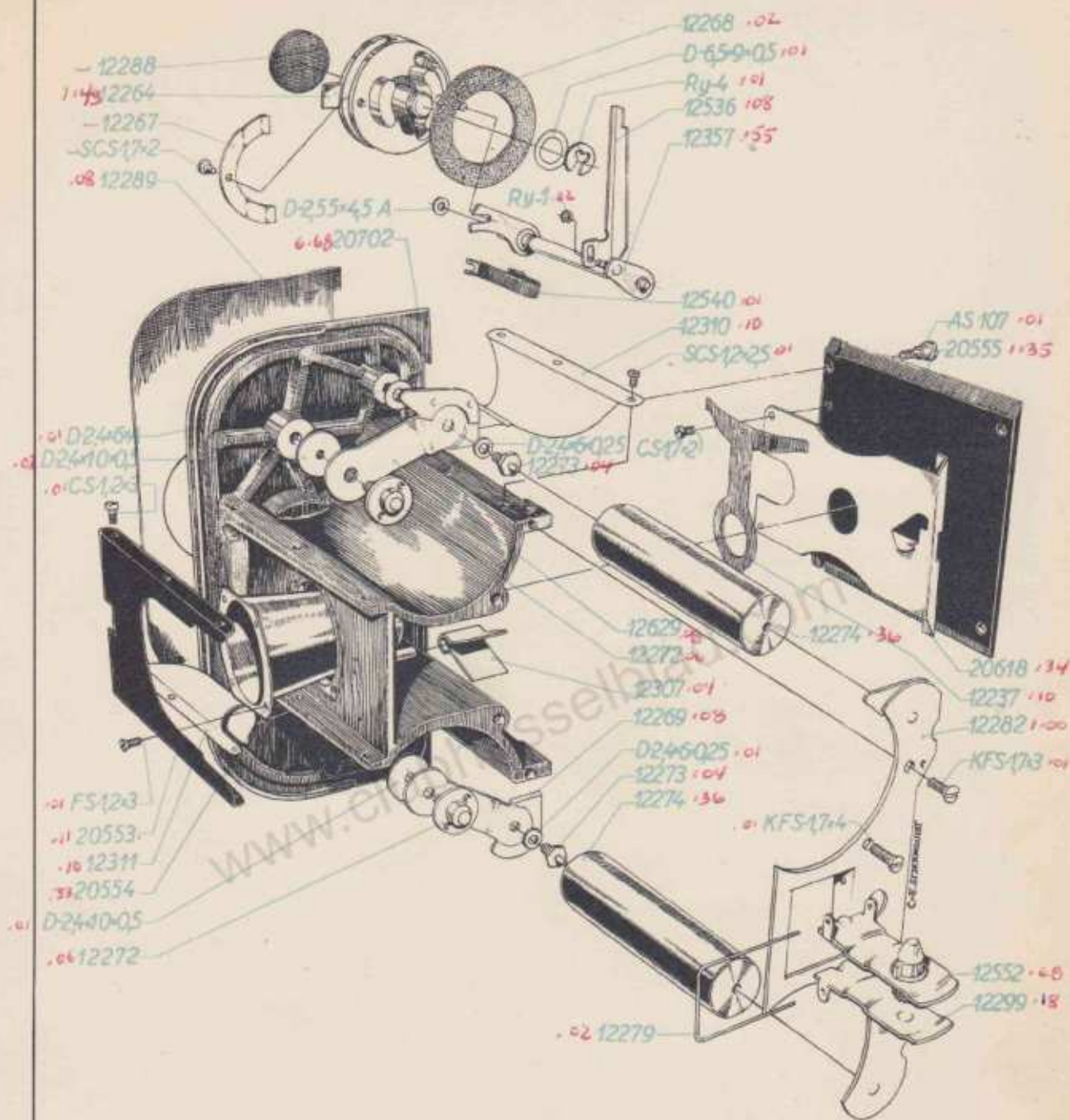
Ry-4

SCS-1.2×2.5 (3)



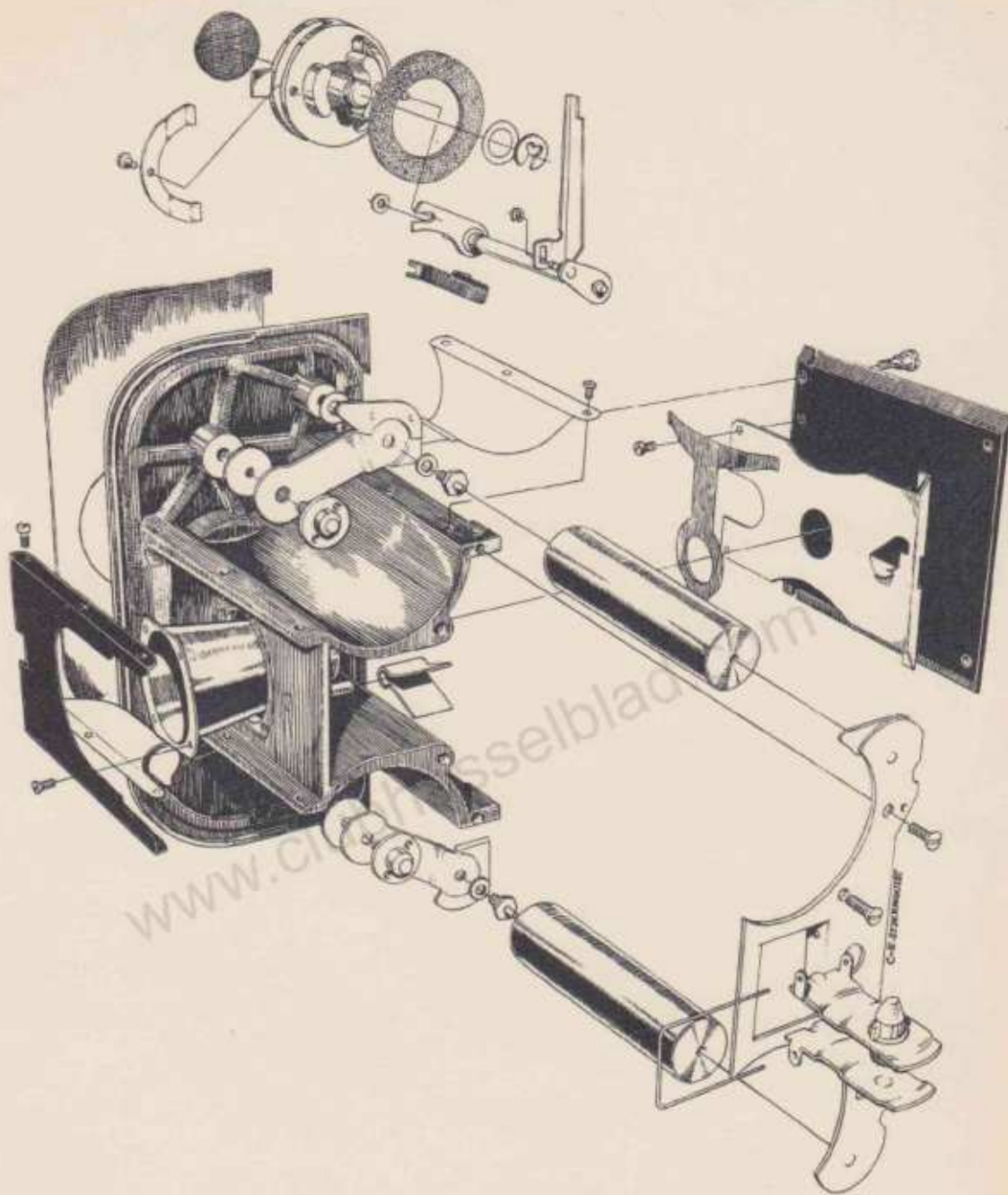
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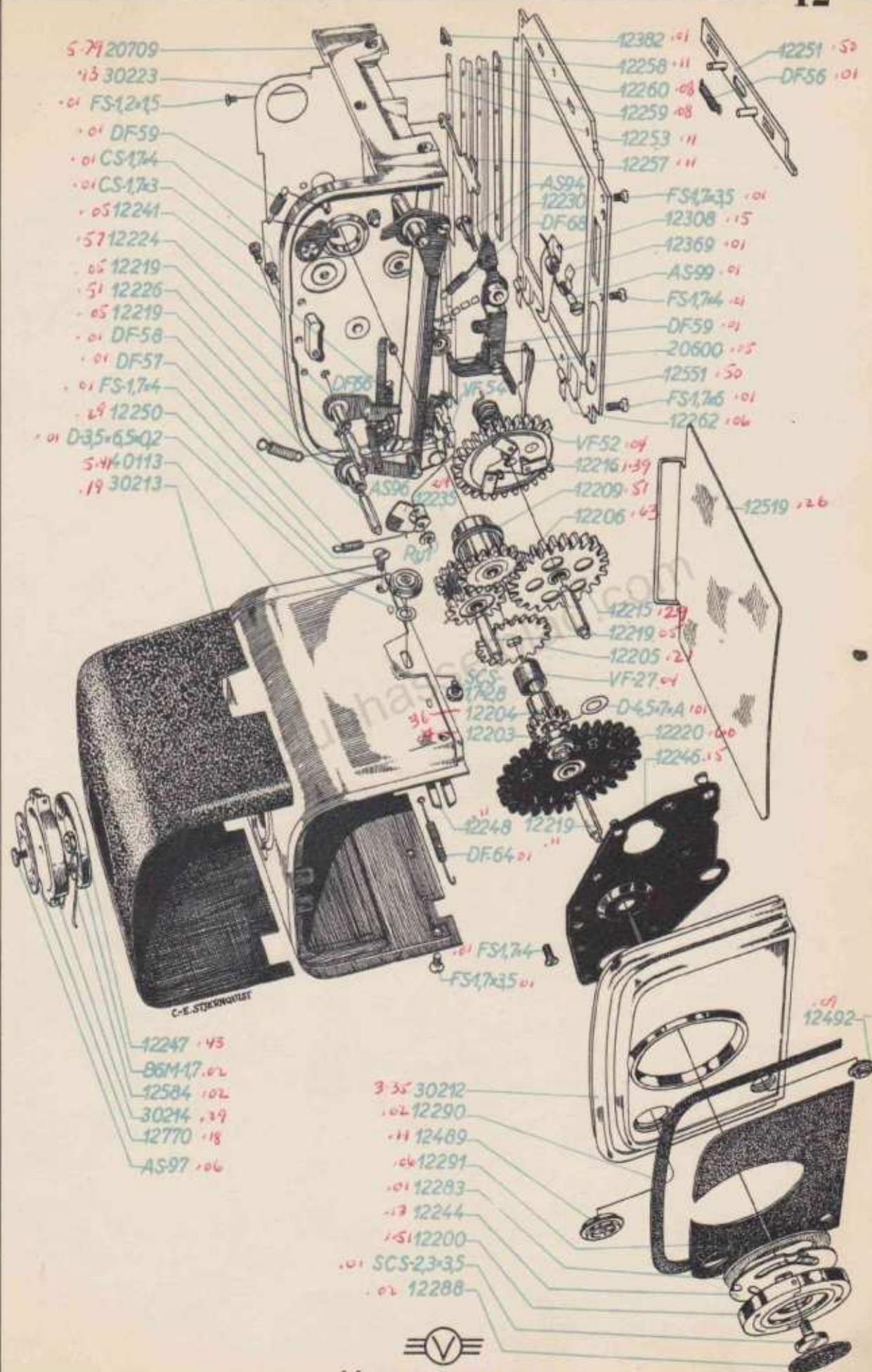


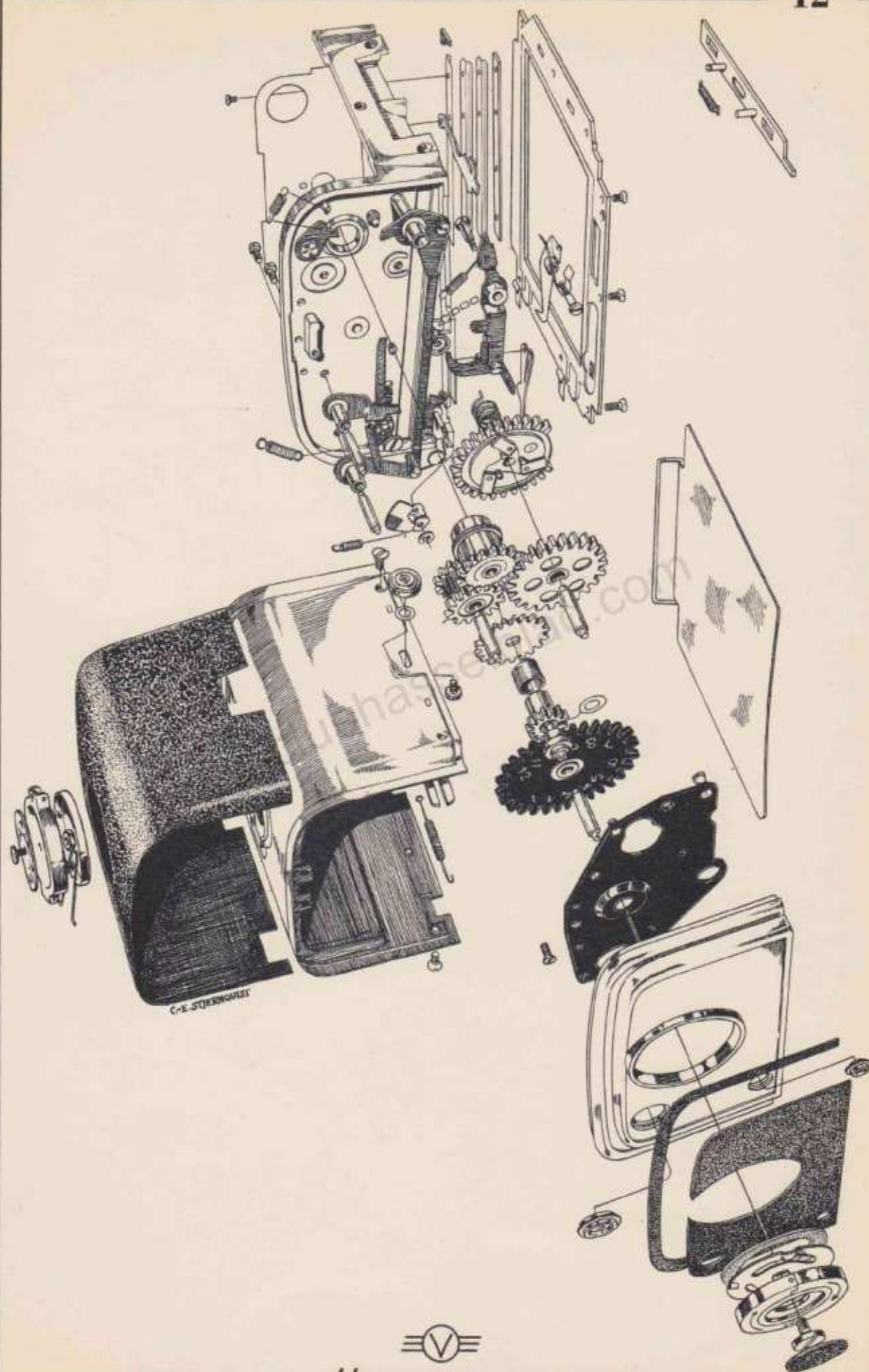
30214	30213	
12770	20619 <i>75</i>	
AS-97	12247	
B6M-1.7	12248	40113 <i>5.41</i>
	12250	30223
	12584	20600
	D-3.5×6.5×0.2	20709
	SCS-1.7×2.8	12200
	12203	12206
	12204	12209
	12205	12214 <i>1.66</i>
	D-4.5×7×A	12219 (4)
	VF-27	12220
		12224
	DF-59	12226
	DF-68	12230 <i>1.65</i>
		12235
		12241
		12244
		12246
		12251
		12253
		12257
		12258
		12259
30212	12260	
12290	12262 (2)	
12291	12280 <i>4.23</i>	
12489	12283	40114
12492	12288	
	12308	
	12369	
	12382 (4)	
12215	12519	
12216	12542 <i>1.79</i>	
12219	12551	
	AS-94	
	AS-96	
	AS-99	
	CS-1.7×3 (2)	
	CS-1.7×4	
	DF-56	
	DF-57	
	DF-58	
	DF-59	
	DF-64	
	DF-66	
	FS-1.2×1.5 (4)	
	FS-1.7×3.5 (4)	
	FS-1.7×4 (11)	
	FS-1.7×6	
	Ry-1	
	SCS-2.3×3.5	
	VF-52	



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Sweden / Schweden / Suède / Suecia

Quantity Anzahl Quantité Cantidad	Part No. Teil Nr. No. de la partie Nº de la parte	Remarks Anmerkungen Notes Notas

Exchanged 7/31/53

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12703 } 20680

12057

12079

12084

12655

12704

12706

12710

12714

12717

12718

12719

12720

AS-108 (2)

CS-1.2×1.8 (3)

D-2.1×3.5×0.05

DF-69

DF-70

SCS-1.2×2

(4)

30250

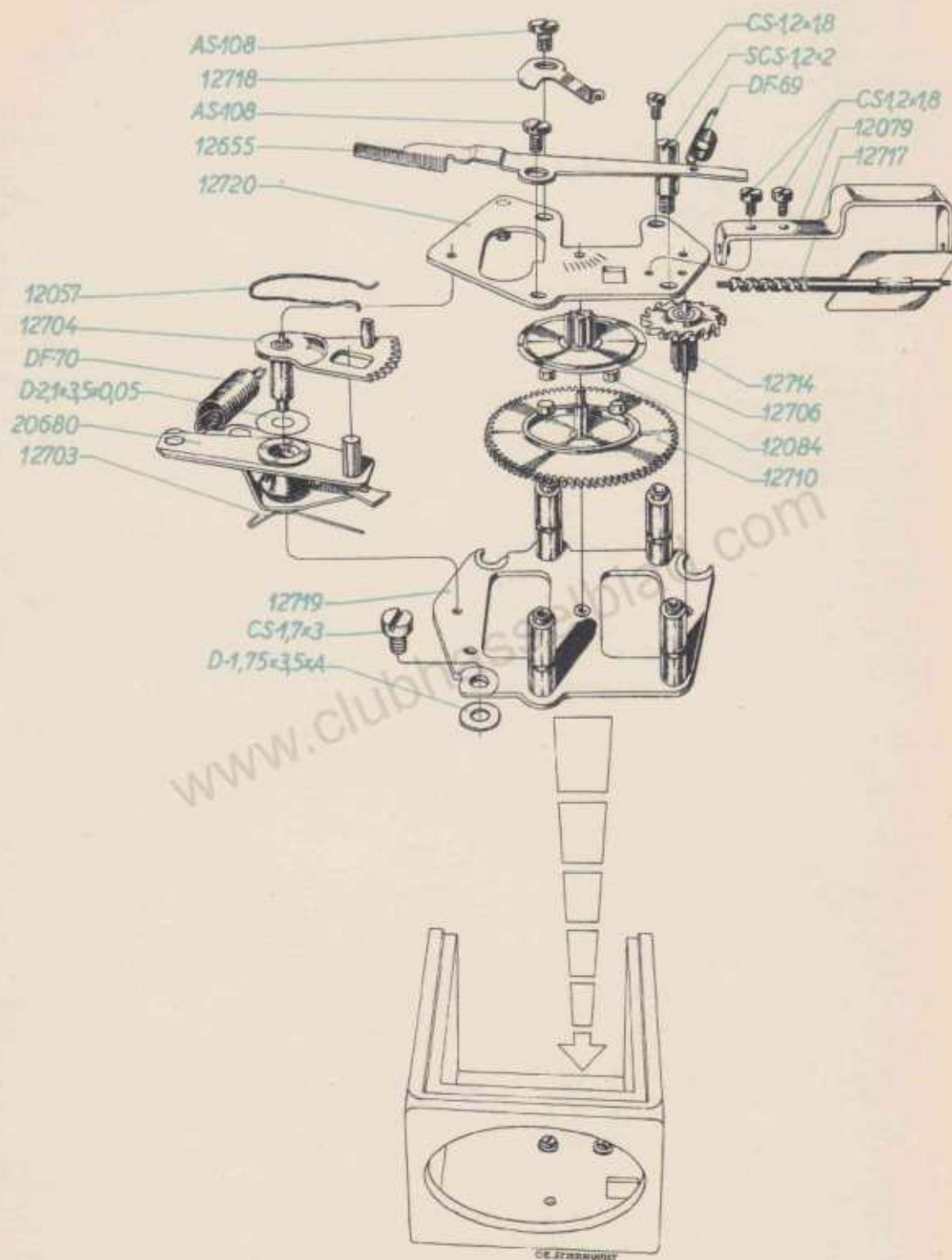
CS-1.7×3

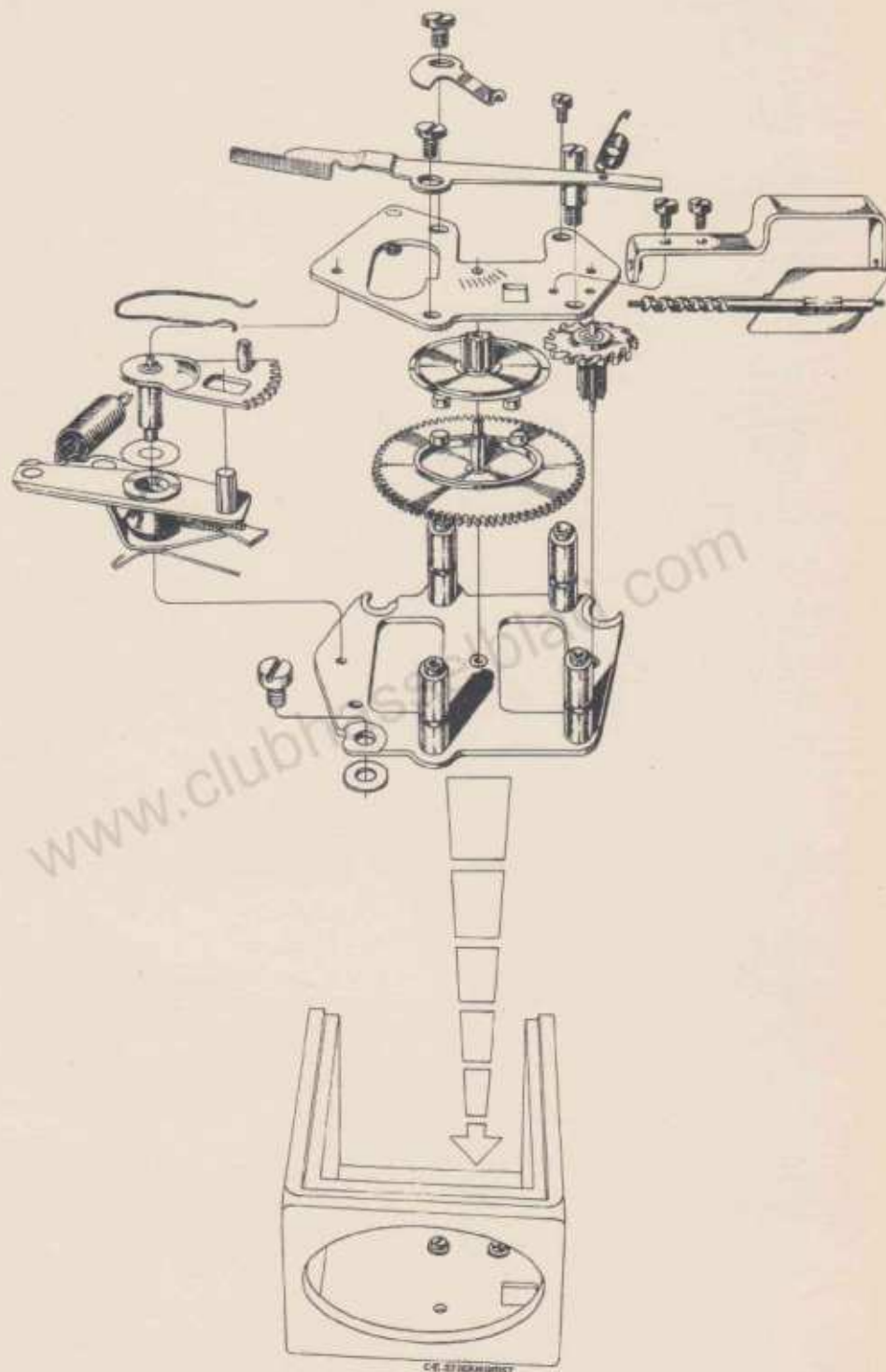
D-1.75×3.5×A

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12092	30204	
12094	12087	
12095	12090	
12096	12091	
12098	12097	
12110	12103	
12364	12119	
FS-1.7×4 (2)	12120	
	12336	
	AS-103	30203
	CS-1.7×2	20515
	CS-1.7×3.5	12691
	DF-53	12695
	DF-72	AS-104
	SCS-2×4	CS-1.2×1.5
	SCS-2.3×3	FB-2
	SCS-2.3×3v	CS-1.2×2
	VF-30	SCS-1.7×2.5 (2)
	VF-40	SCS-1.7×3.5 (2)
		SCS-2×3.8
		VF-41

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