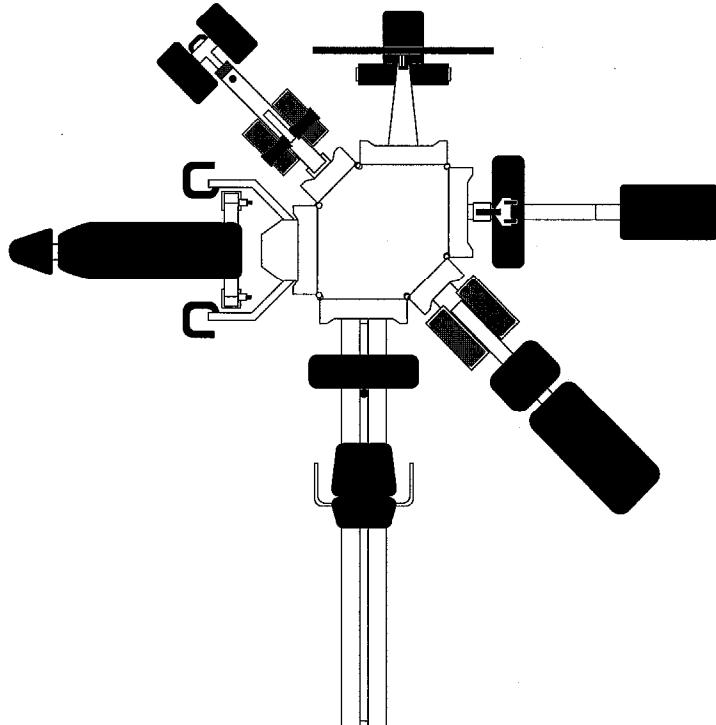


SPARE PART MANUAL



12 / 2003

DAVID
MODULAR LINE

Contents	Page
Index	1
Contact Information.....	2
Spare Part Order Form.....	3
Model Changes.....	4
Model Changes.....	5
M 12	6
M 14 => 4/98.....	7
M 14 5/98 =>.....	8
Conversion kit for M 14 / M 15 elevated version.....	9
M 15 => 4/95.....	10
M 15 5/95 – 4/98.....	11
M 15 5/98 =>.....	12
M 16 Weight stack frame assembly.....	13
M 16 Foot plate assembly.....	14
M 16 Sled assembly.....	15
M 16 Back and neck support assembly.....	16
M 20 => 4/95.....	17
M 20 5/95 – 4/98.....	18
M 20 5/98 =>.....	19
M 21 => 4/98.....	20
M 21 5/98 =>.....	21
M 22 => 4/98.....	22
M 22 5/98 =>.....	23
M 23 => 4/98.....	24
M 23 5/98 =>.....	25
M 24	26
M 26 => 4/98.....	27
M 26 5/98 =>.....	28
M 30 => 4/98.....	29
M 30 5/98 =>.....	30
M 30 Movement Arm Adjustment Assembly => 4/98.....	31
M 30 Movement Arm Adjustment Assembly 5/98 =>.....	32
M 30 Movement Arm Assembly.....	33
M 61 => 4/98.....	34
M 61 5/98 =>.....	35
M 62	36
M 62 Lower Pulley Attachment Assembly.....	37
M 62 Range of Movement Limiter assembly.....	38
M 62 Weight Stack Assembly, 2,5/5/80 kg.....	39
M 62 Detachable Pulley Assembly.....	40
M 62 Upper Pulley Assembly.....	41
M 62 Slider and Attachment Assembly.....	42
M 62 Pulley Adjuster Assembly.....	43
M 62 Weight Stack Assembly, 2,5/5/130 kg.....	44
M 62 Support Frame assembly.....	45
M 62 Pulley Assembly.....	46
M 62 Cable Assembly.....	47
M 62 Support Handle Assembly.....	48
M 62 Weight Stack Pulley Assembly.....	49
M 63 => 4/98.....	50
M 63 5/98 =>.....	51
M 70	52
M 81	53
M 84	54
M 85	55
M 90 => 4/95.....	56
M 90 5/95 – 3/98.....	57
M 90 4/98 =>.....	58
Weight Stack Assembly (2,5 kg plates).....	59
Weight Stack Assembly (5 kg plates).....	60
Weight Stack Pulley Assembly 8/94 =>.....	61
Weight Stack Belt Attachment Assembly.....	62
Frame Mounting Hardware.....	63
Wall Mounting Installation.....	64
M-Line Belt Lengths.....	65
PU-Weight Stack Drive Belt Conversion Kits 8/94 – 4/98.....	66
General Inspection Procedure.....	67
Recommended Maintenance Procedure.....	68

INFORMATION

This spare part manual contains detailed information of all parts needed or available with a corresponding reference code.

In case spare parts are needed, make a photocopy of the attached spare part order form, provide all information requested and fax the order form according to the following instructions.

Finland: DAVID FINLAND OY
Bulevardi 54
00120 Helsinki
Finland

Phone: _____
Fax: _____
E-Mail: info@david.fi
Web: www.david.fi

Other countries: DAVID INTERNATIONAL LTD
Nelsonallee 24
89231 Neu-Ulm
Germany

Phone: +49-731-978660
Fax: +49-731-78917
E-Mail: info@david.de
Web: www.david.de

Read carefully the information regarding maintenance and general inspection of the equipment.

DAVID

Ersatzteilbestellung / Spare part order

INTERNATIONAL LTD • Nelsonallee 24 • 89231 Neu-Ulm • Germany
Phone +49 (0)731 978660 • Fax +49 (0)731 78917

M-LINE 9/87 – 7/94 PLEXI-GLAS FRAME

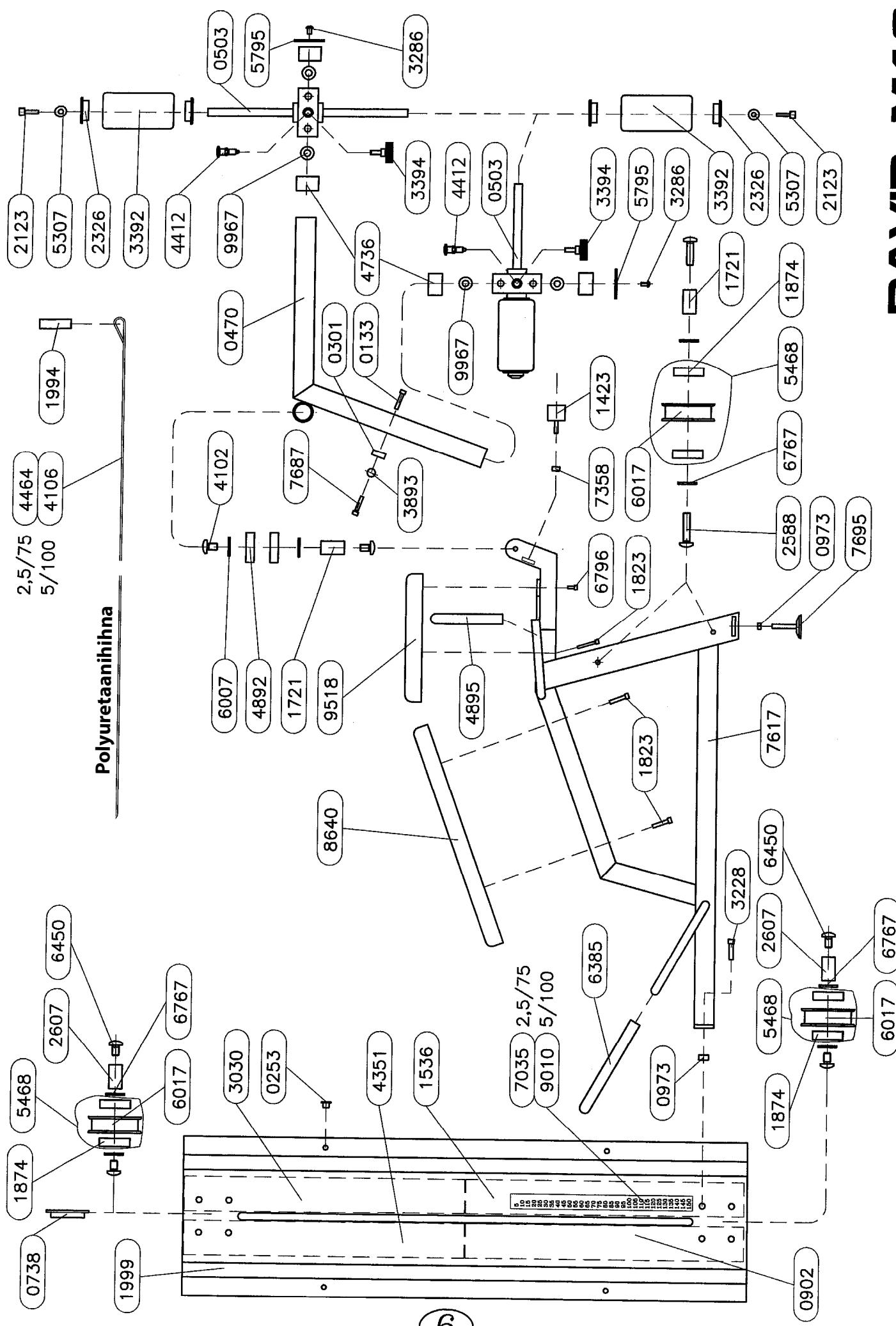
Drive belt lengths with related spare part codes on page 63 of this manual.
Other spare parts available on request with limited supply.

M-LINE 8/94 =>

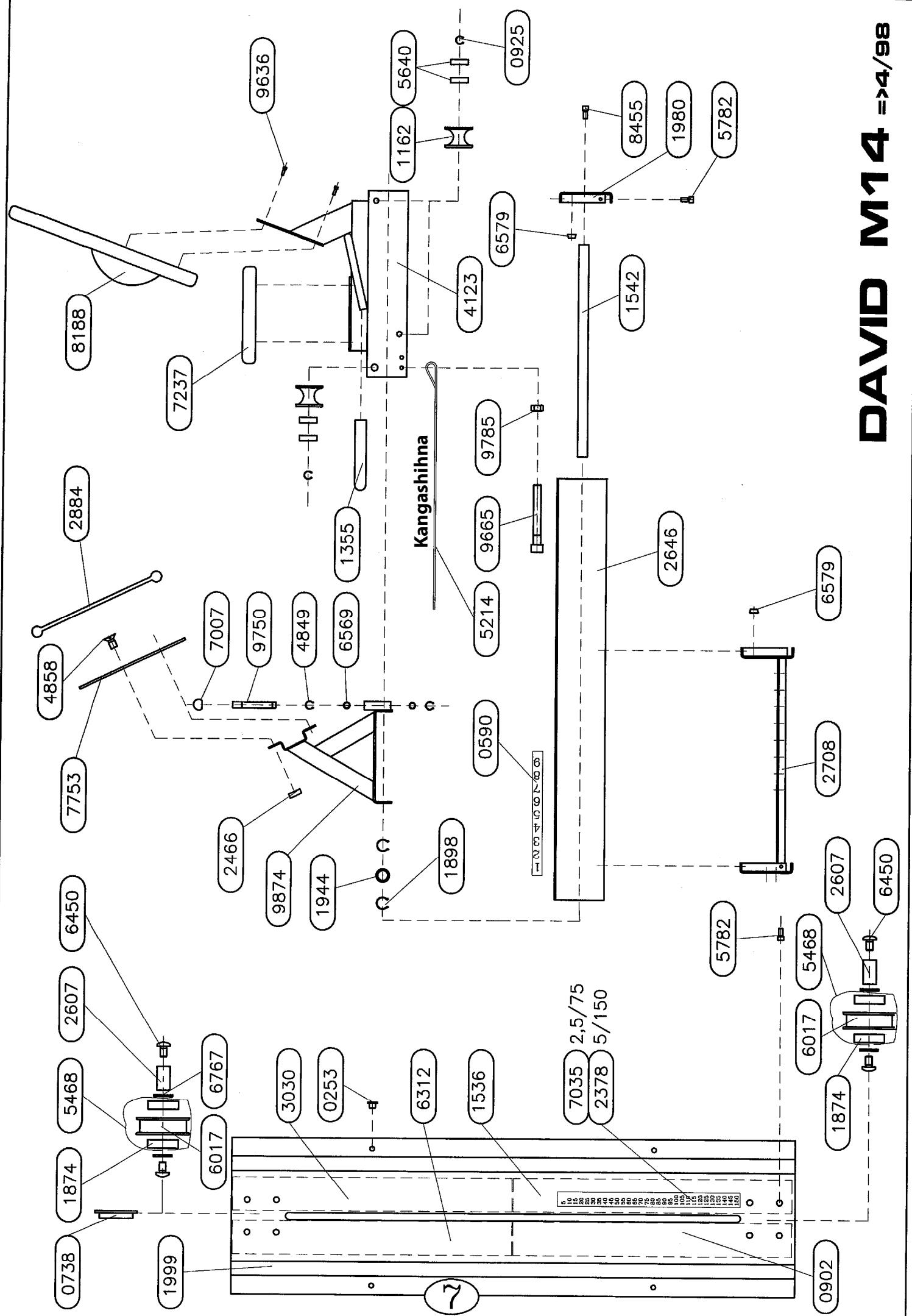
METAL FRAME

M 12	6/99 =>	Stainless steel weight stack guide rods
M 14	5/98 => 6/99 =>	PU-drive belt with convex pulleys Contoured pads Stainless steel weight stack guide rods
M 15	5/95=> 5/98 => 6/99 =>	Elevated foot plate frame Adjustable shoulder pads PU-drive belt with convex pulleys Contoured pads Stainless steel weight stack guide rods
M 20	5/95 => 5/98 =>	Ankle pads instead of rolls Safety handles
M 21	5/98 => 6/99 =>	PU-drive belt with convex pulleys Swivel snap-hook attachment for handles Stainless steel weight stack guide rods
M 22	5/98 => 6/99 =>	PU-drive belt with convex pulleys Stainless steel weight stack guide rods
M 23	5/98 => 6/99 =>	PU-drive belt with convex pulleys Swivel snap-hook attachment for handles Stainless steel weight stack guide rods
M 24		No changes

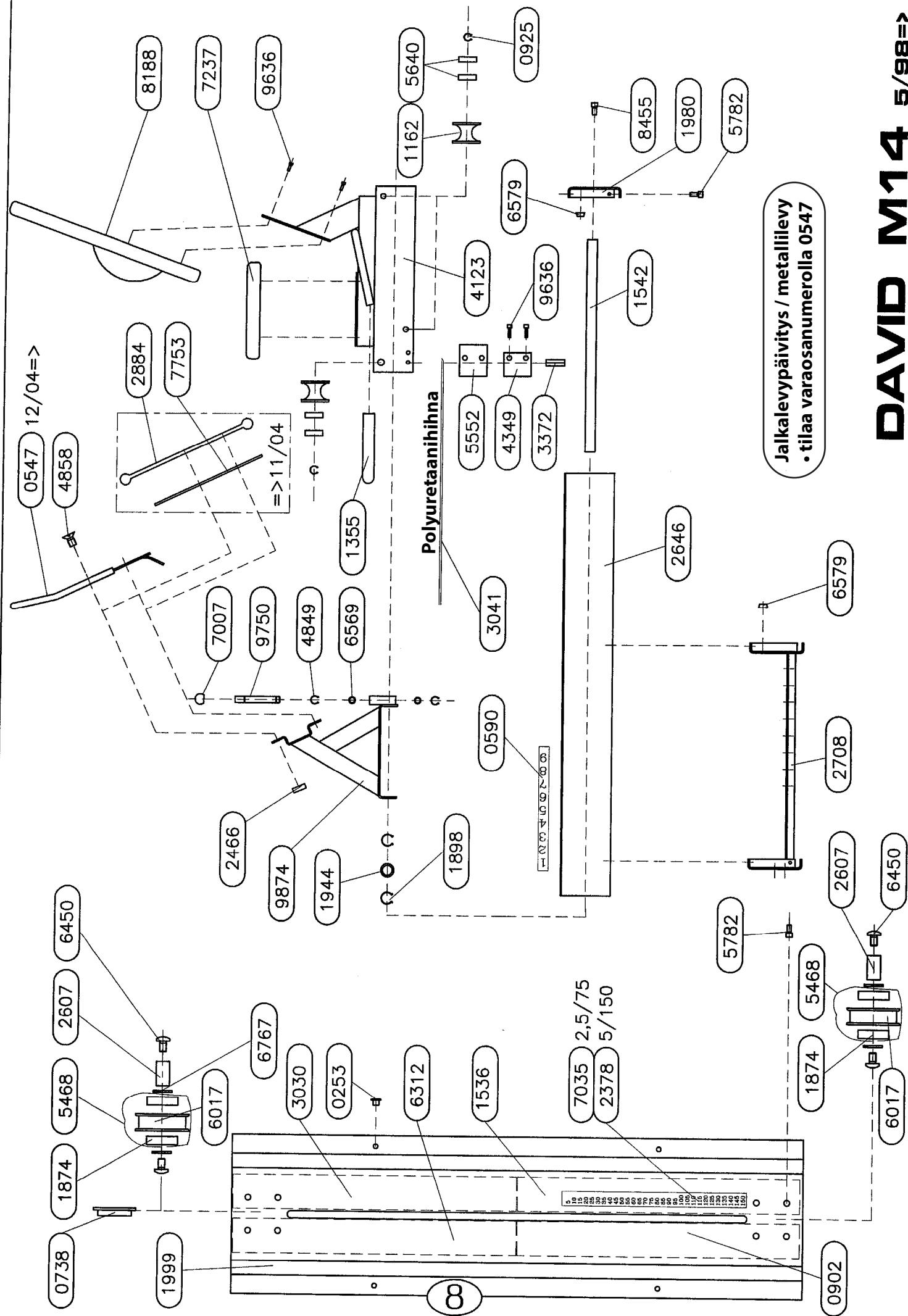
M 26	5/98	Pelvic support attachment modified
M 30	5/98 => 6/99 =>	Longer movement arm PU-drive belt with convex pulleys Stainless steel weight stack guide rods
M 61	5/98 => 6/99 =>	PU-drive belt with convex pulleys Swivel snap-hook attachment for handles Stainless steel weight stack guide rods
M 62		No changes
M 63	5/98 => 6/99 => 6/2000=>	PU-drive belt with convex pulleys Swivel snap-hook attachment for handles Stainless steel weight stack guide rods Re-designed, stainless steel pulley attachment
M 70		No changes
M 81	5/98 =>	Contoured pads
M 85		No changes
M 90	5/95 => 4/98 =>	Contoured pads Adjustable ankle rolls Entry handle Ankle support adjustment with indexing plunger



DAVID M14 => 4/98

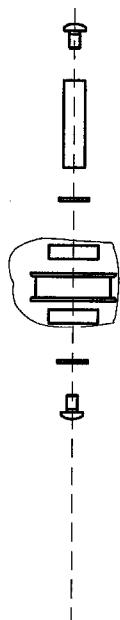
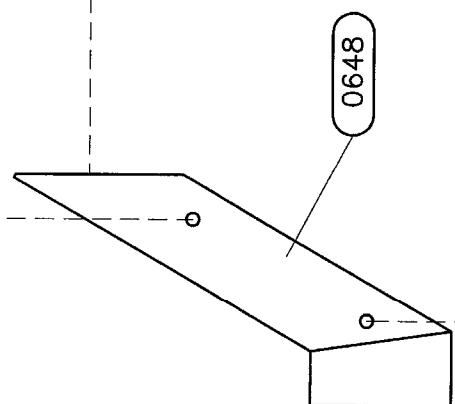
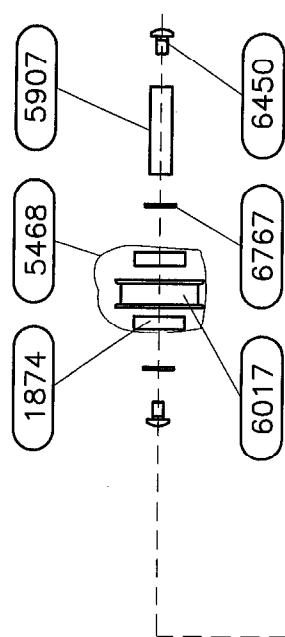
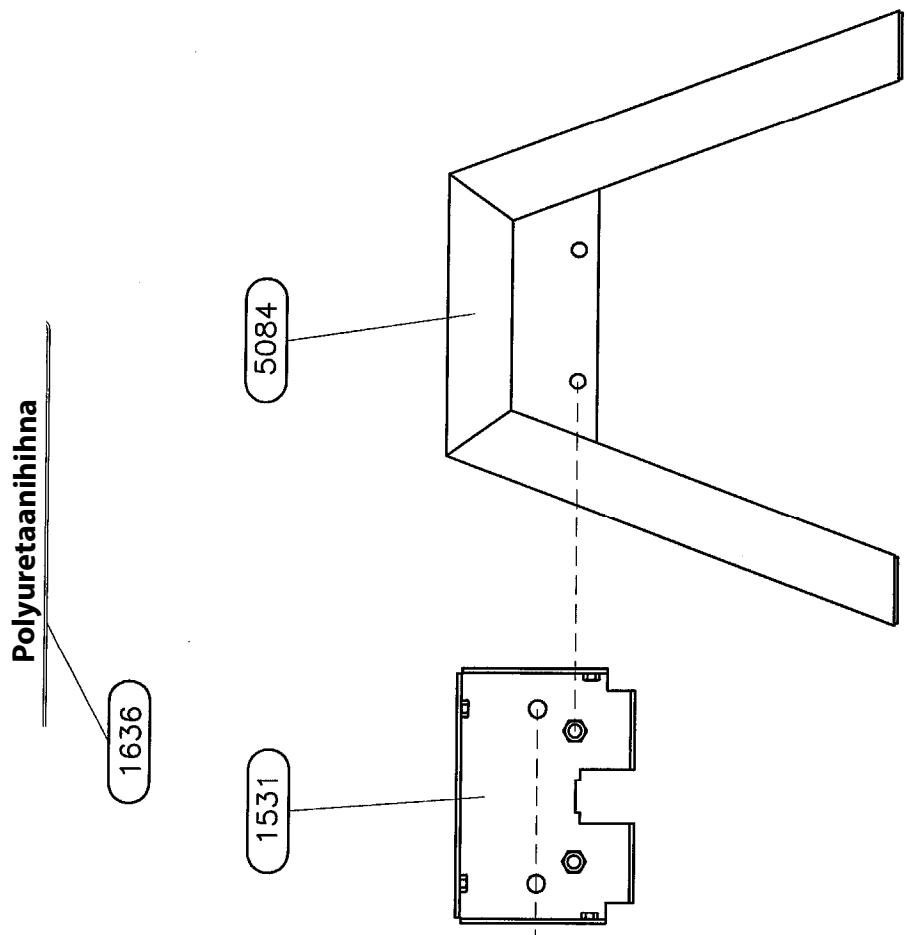


DAVID M14 5/98=>



6709

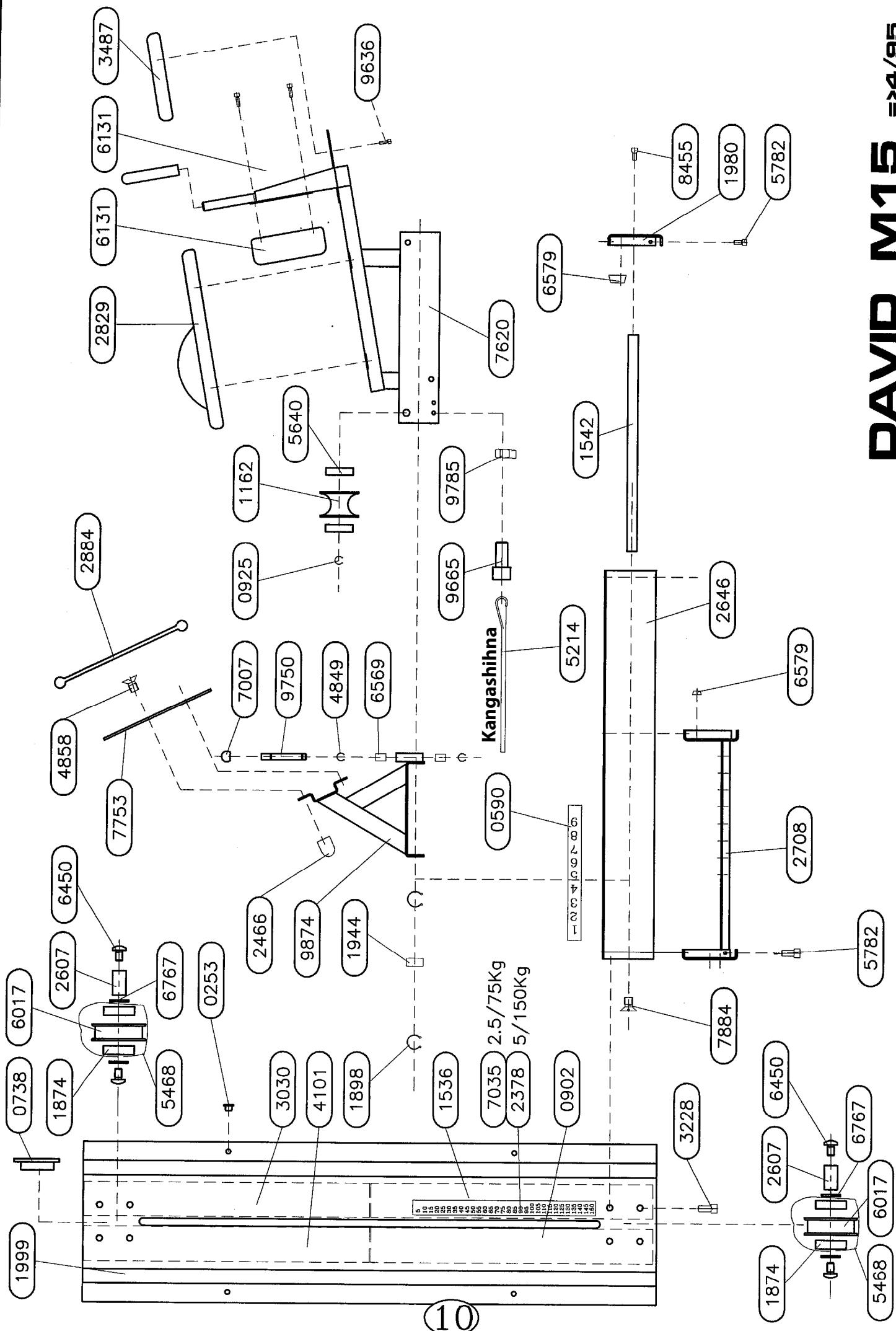
DAVID

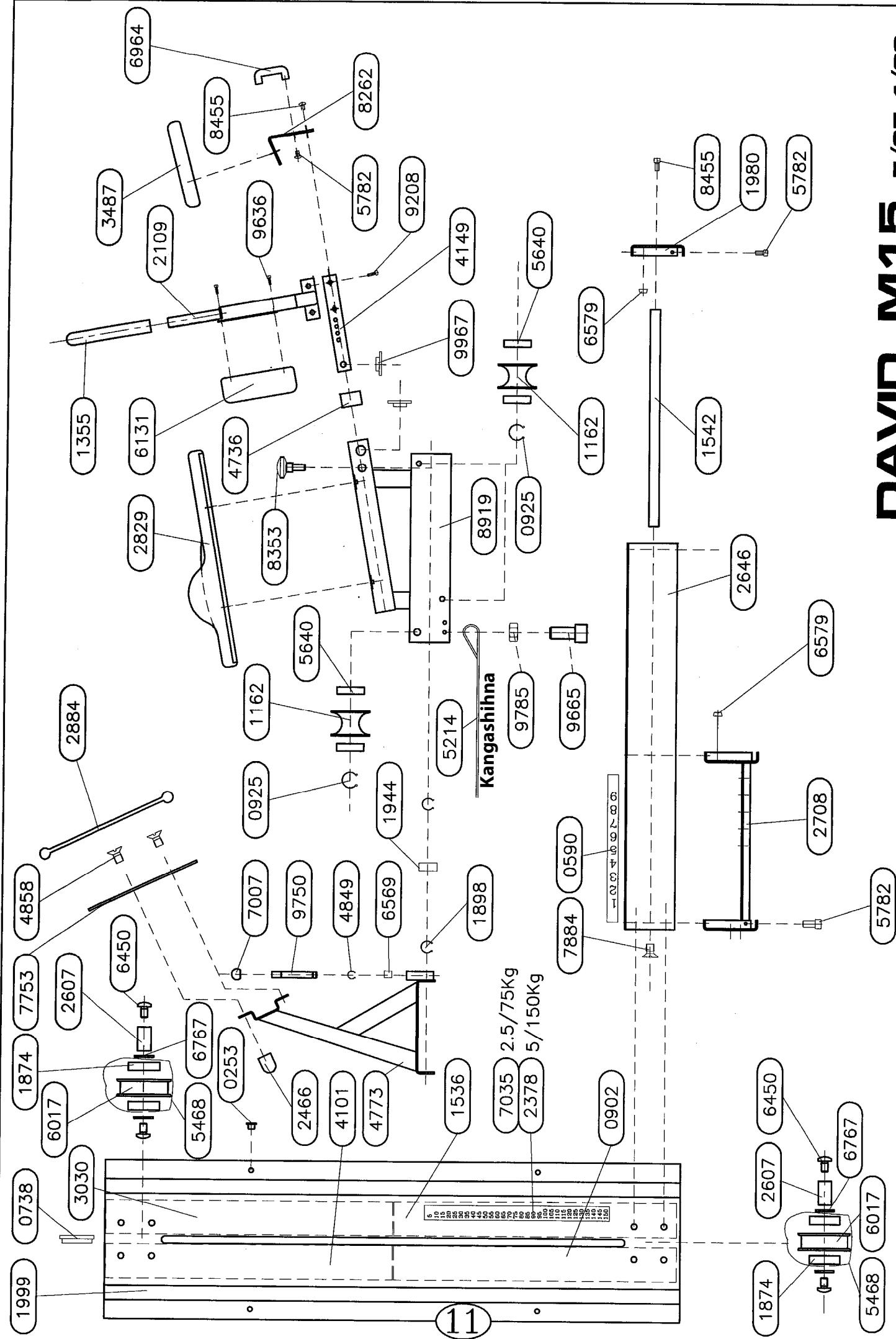


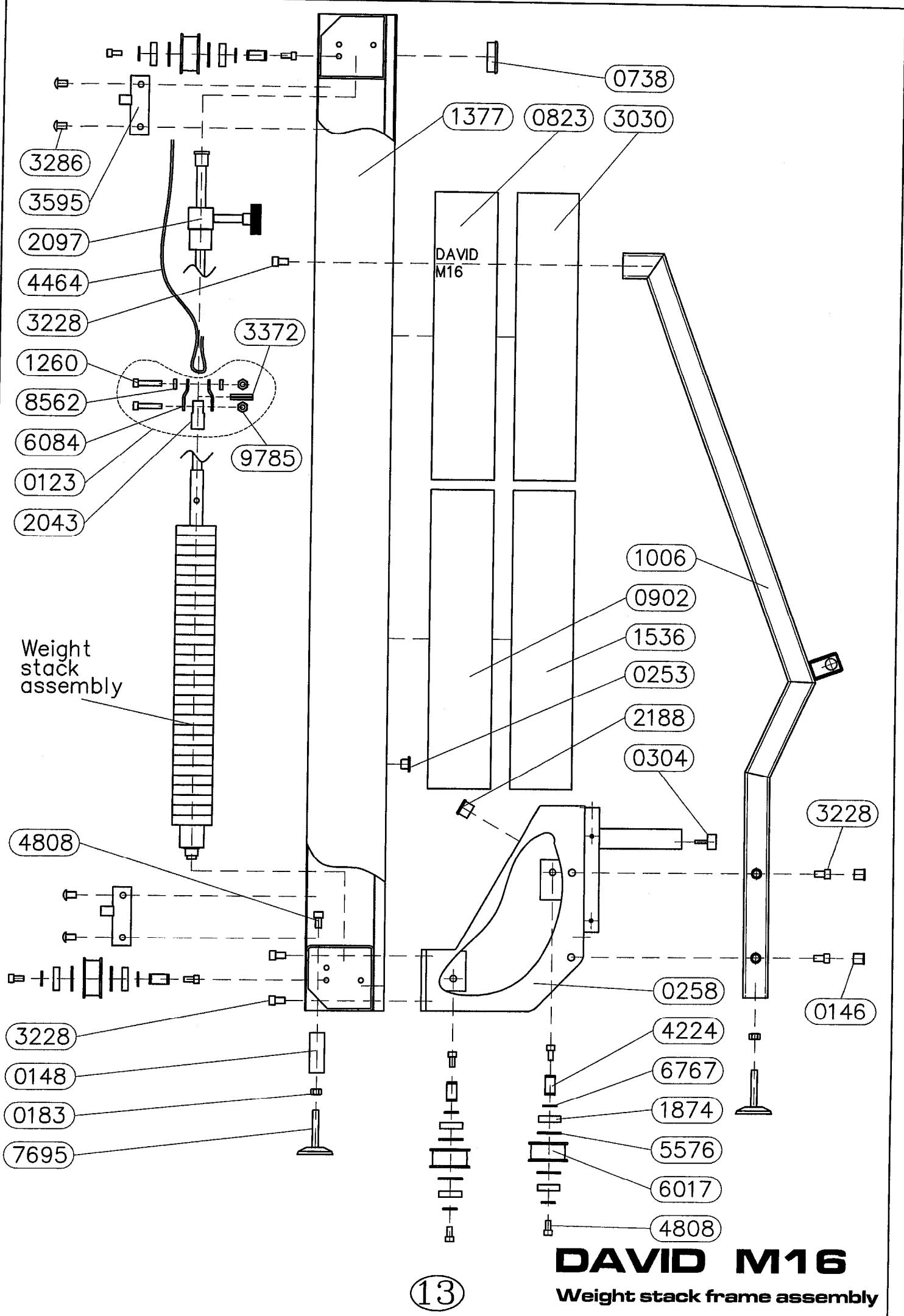
Korotussarja kelkan rungolle

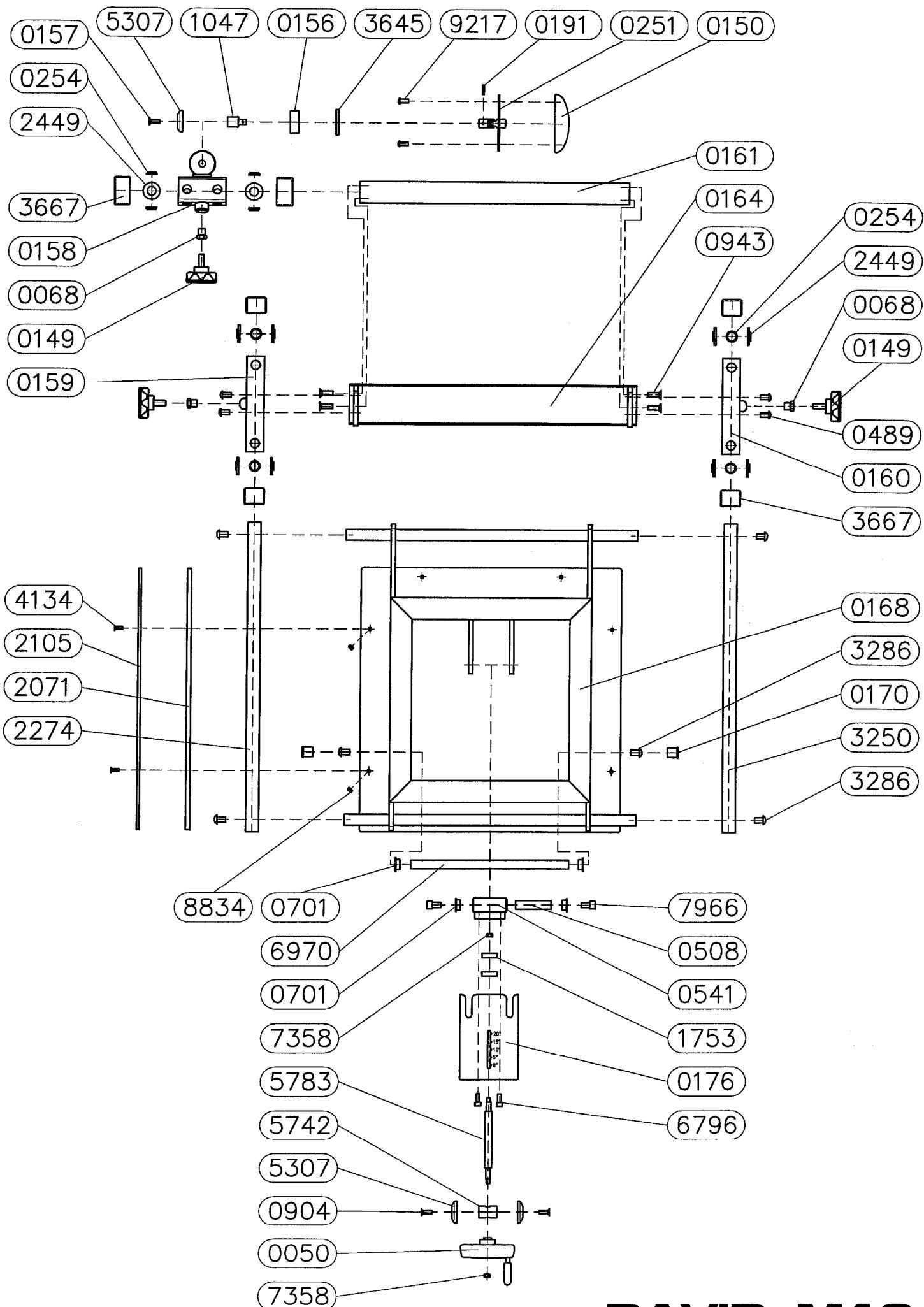
- M14 Jalkaprässi
- M15 Hack-kyyky
- tilaa varaosanumerolla 6709
- mekkaa hihnan materiaali
(kangas tai polyuretaani)

DAVID M15 =>4/95

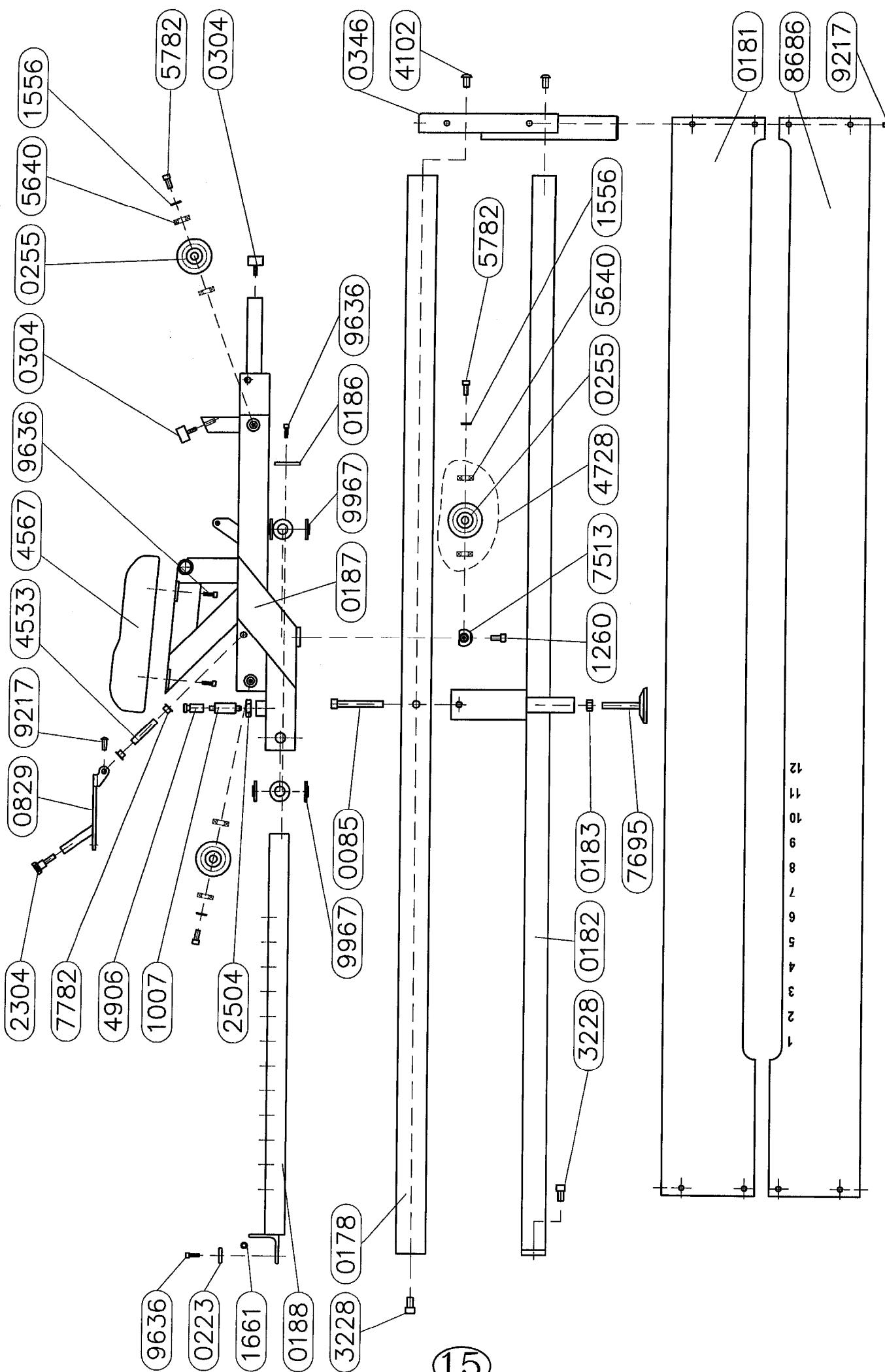






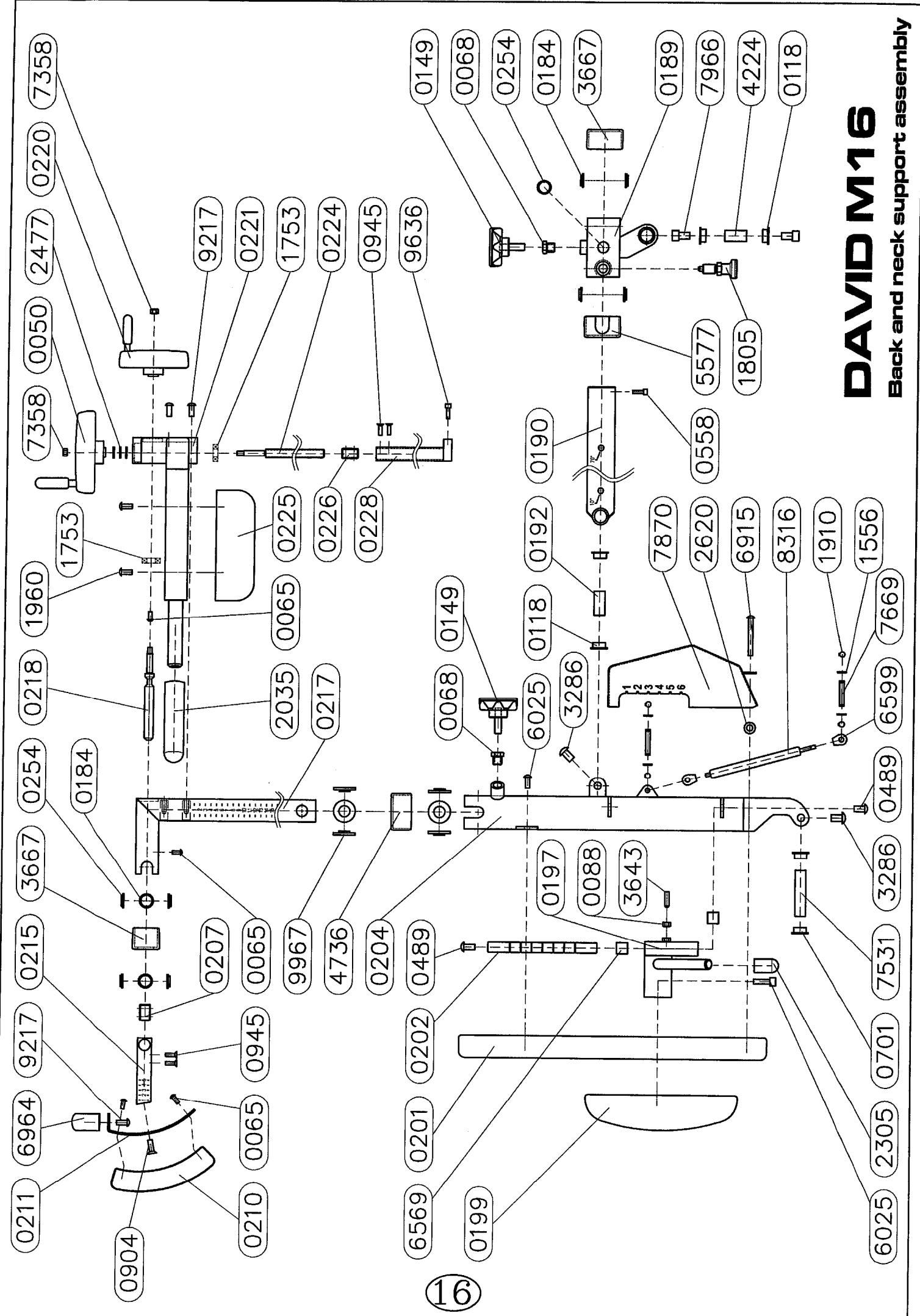


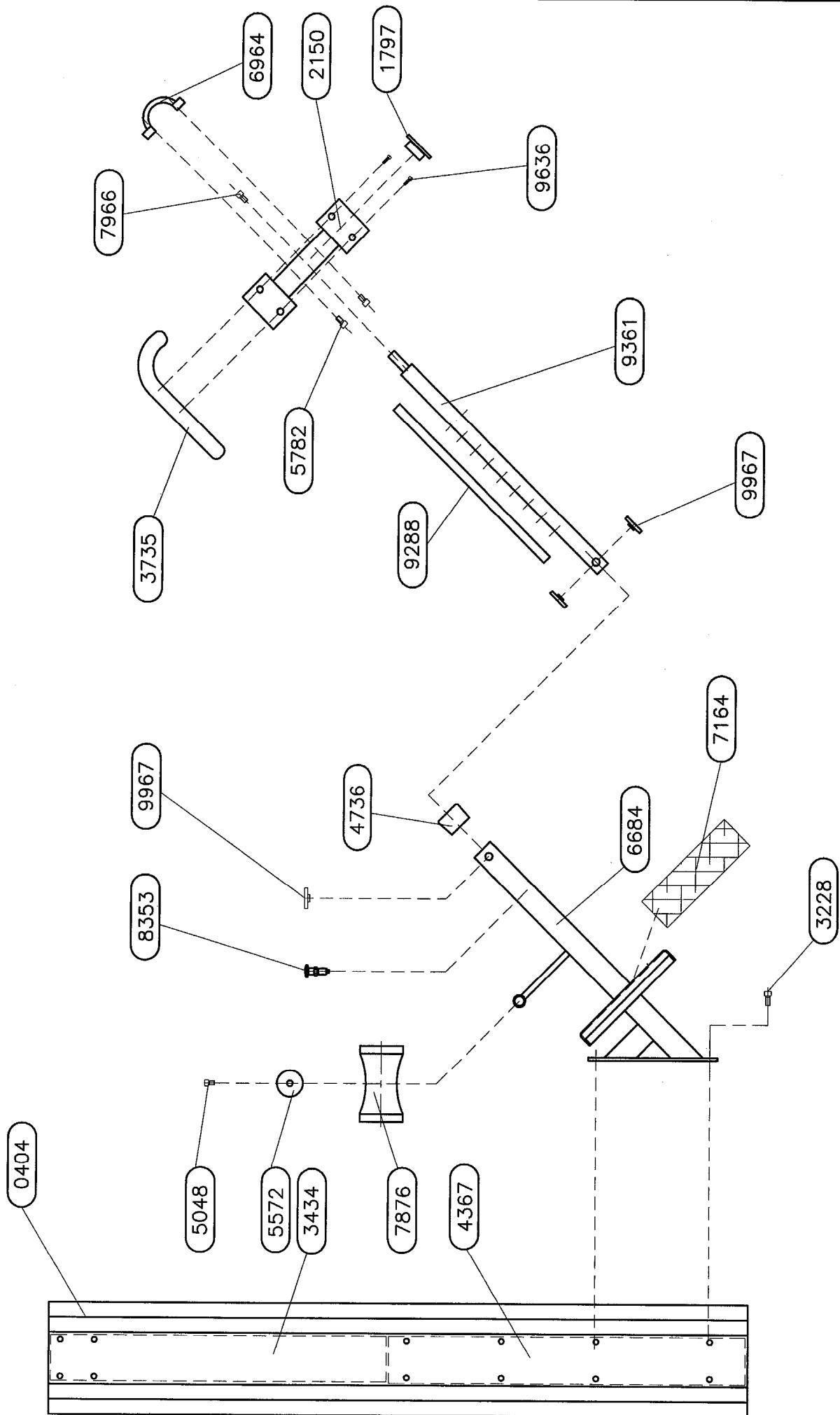
DAVID M16 sled assembly



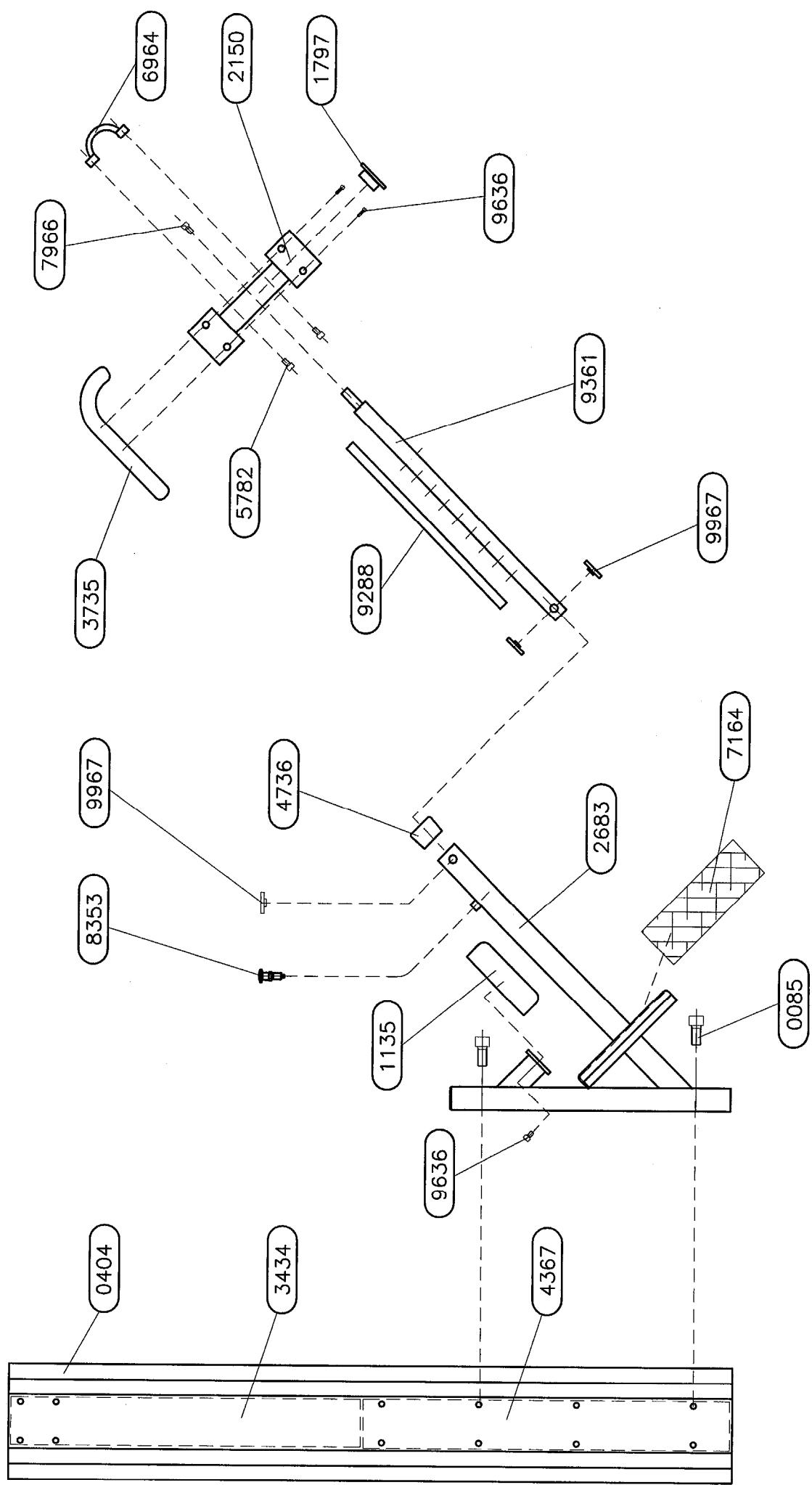
DAVID M'16

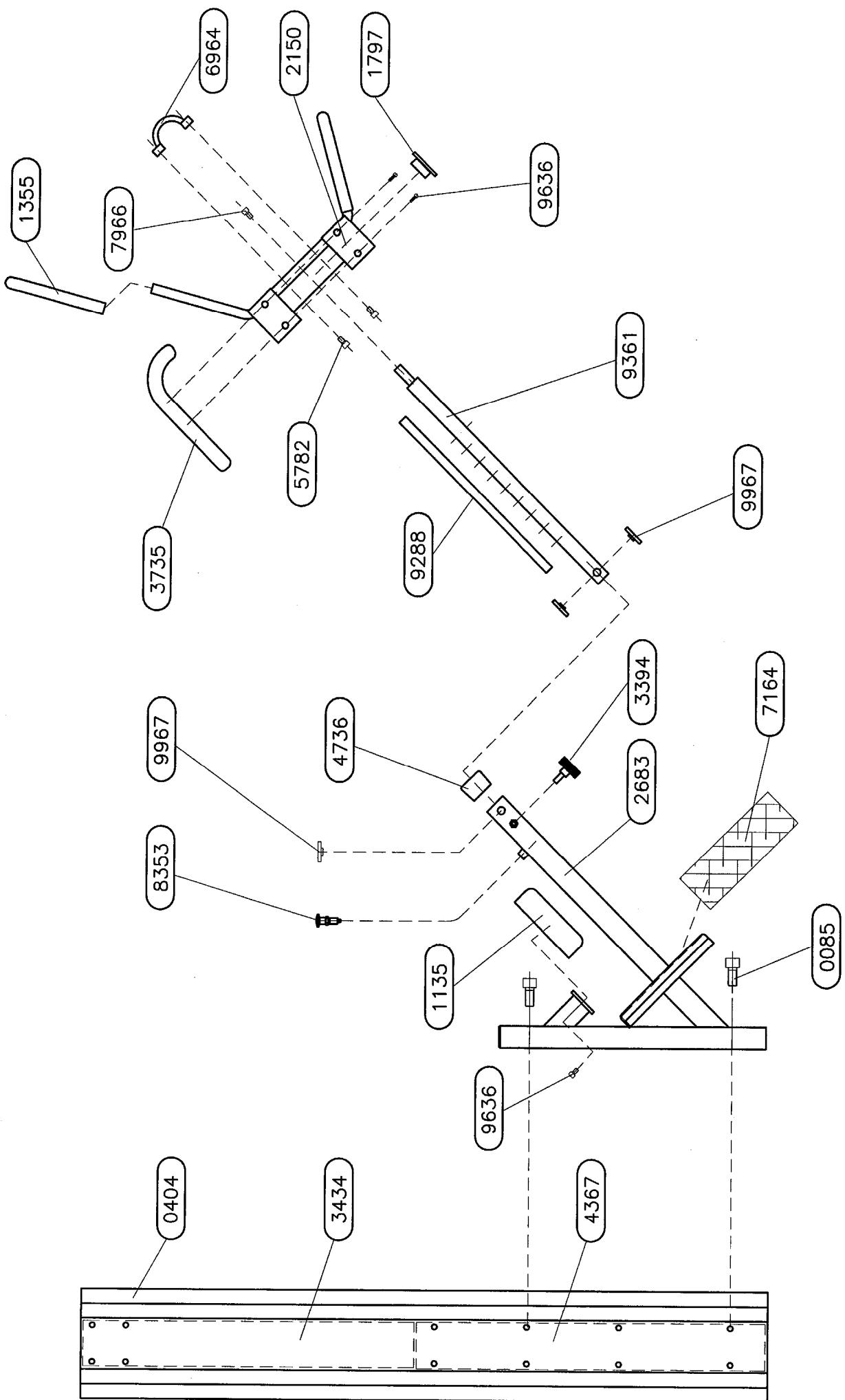
Back and neck support assembly

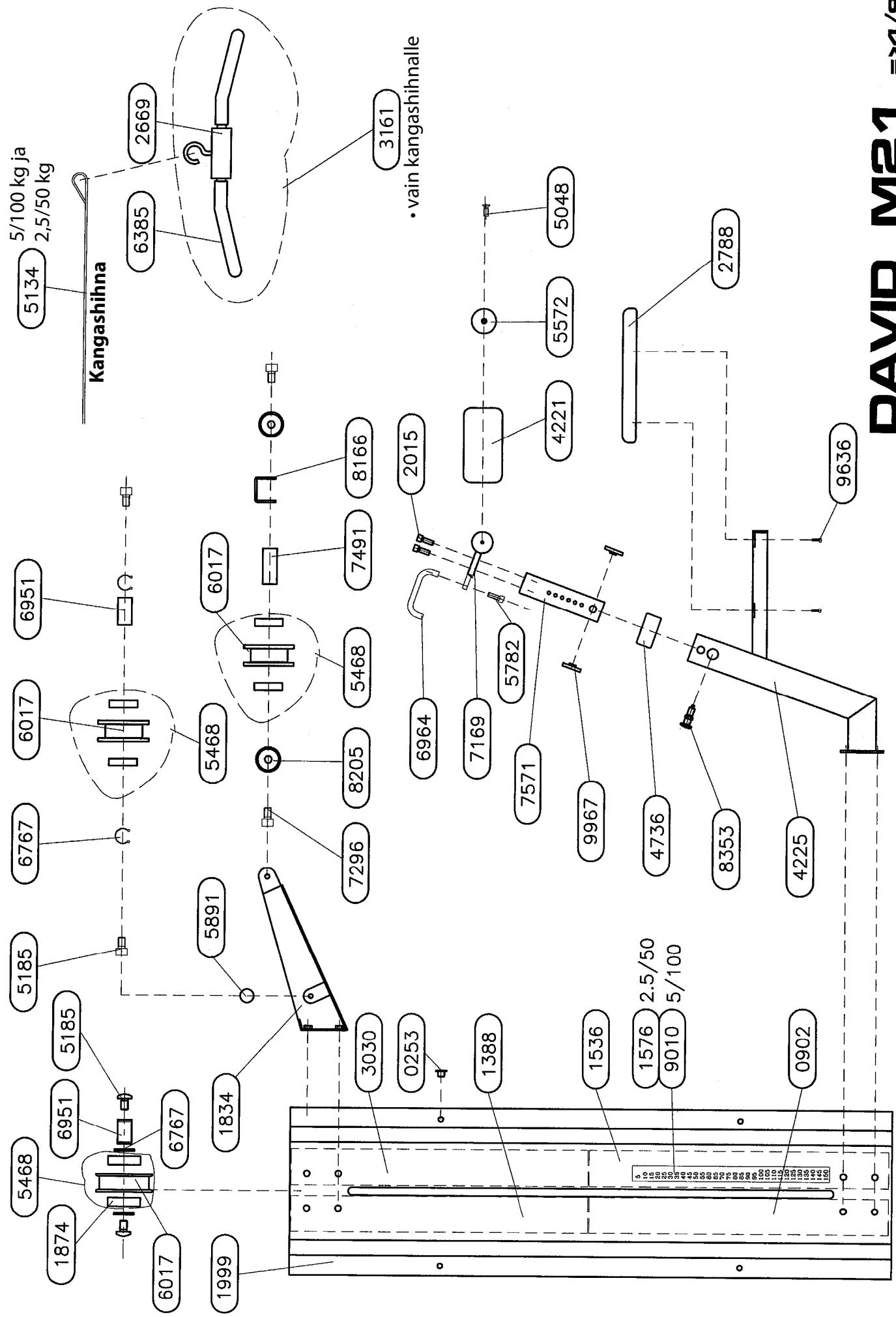


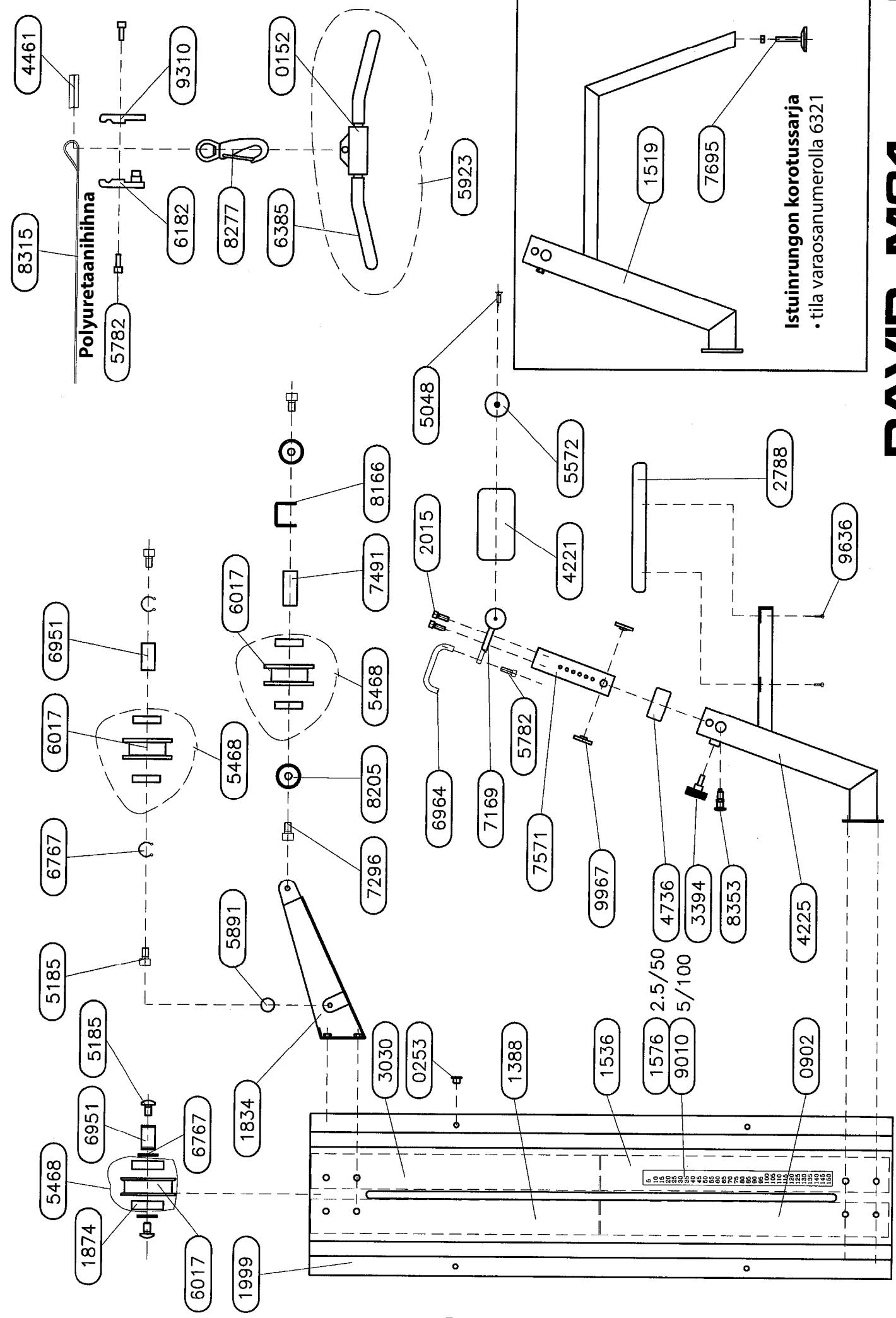


DAVID M20 5/95-4/98

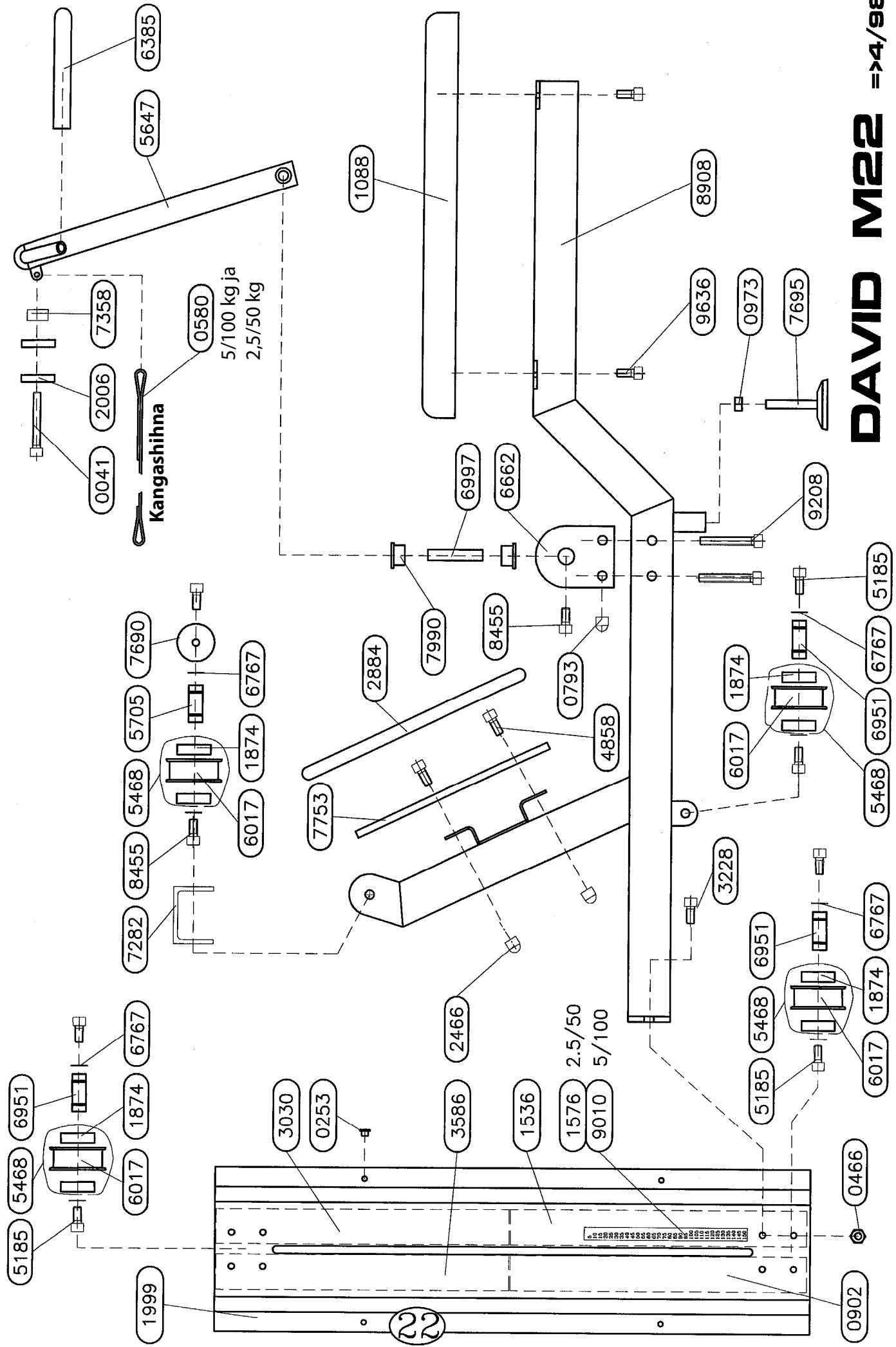


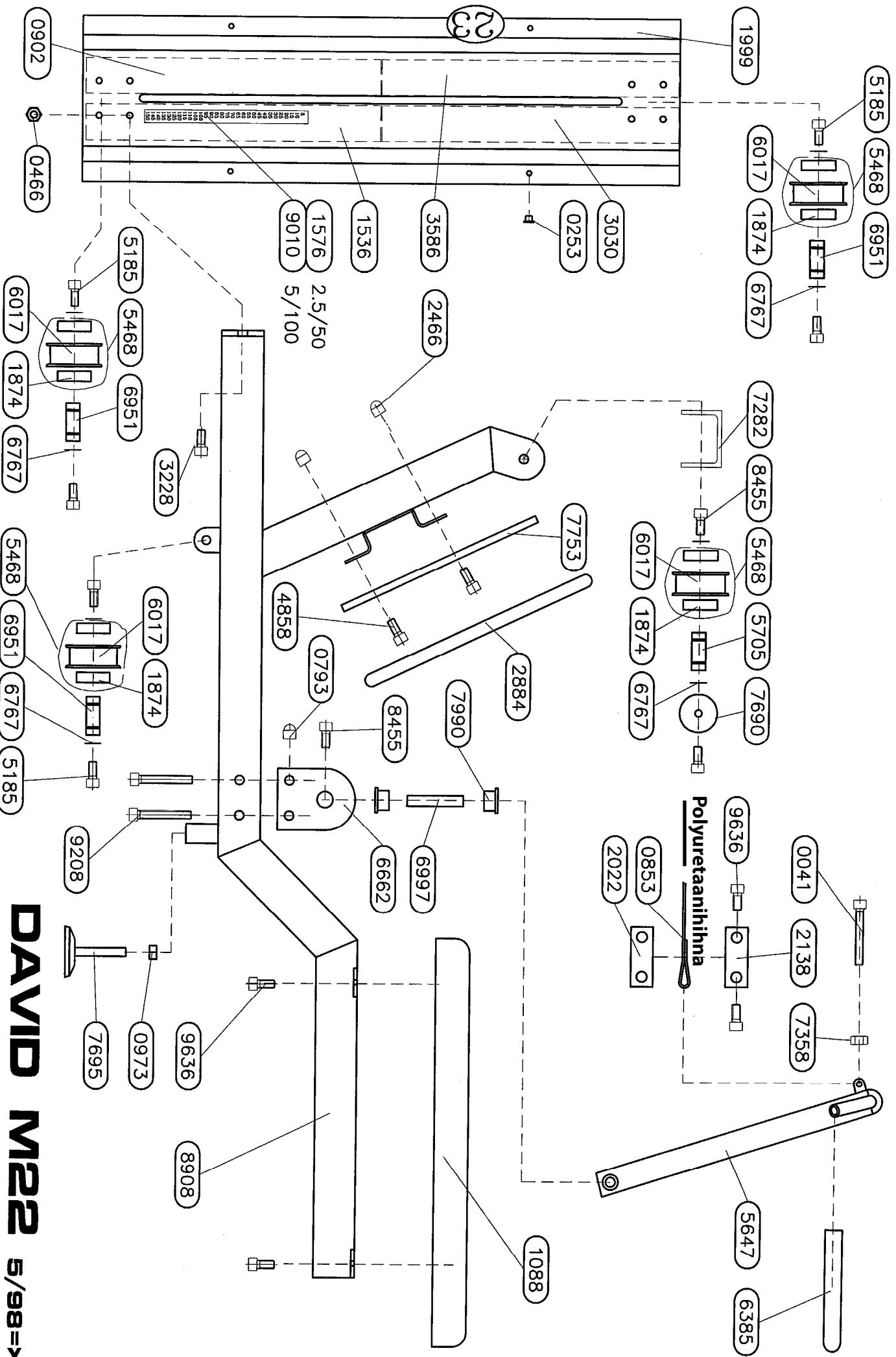




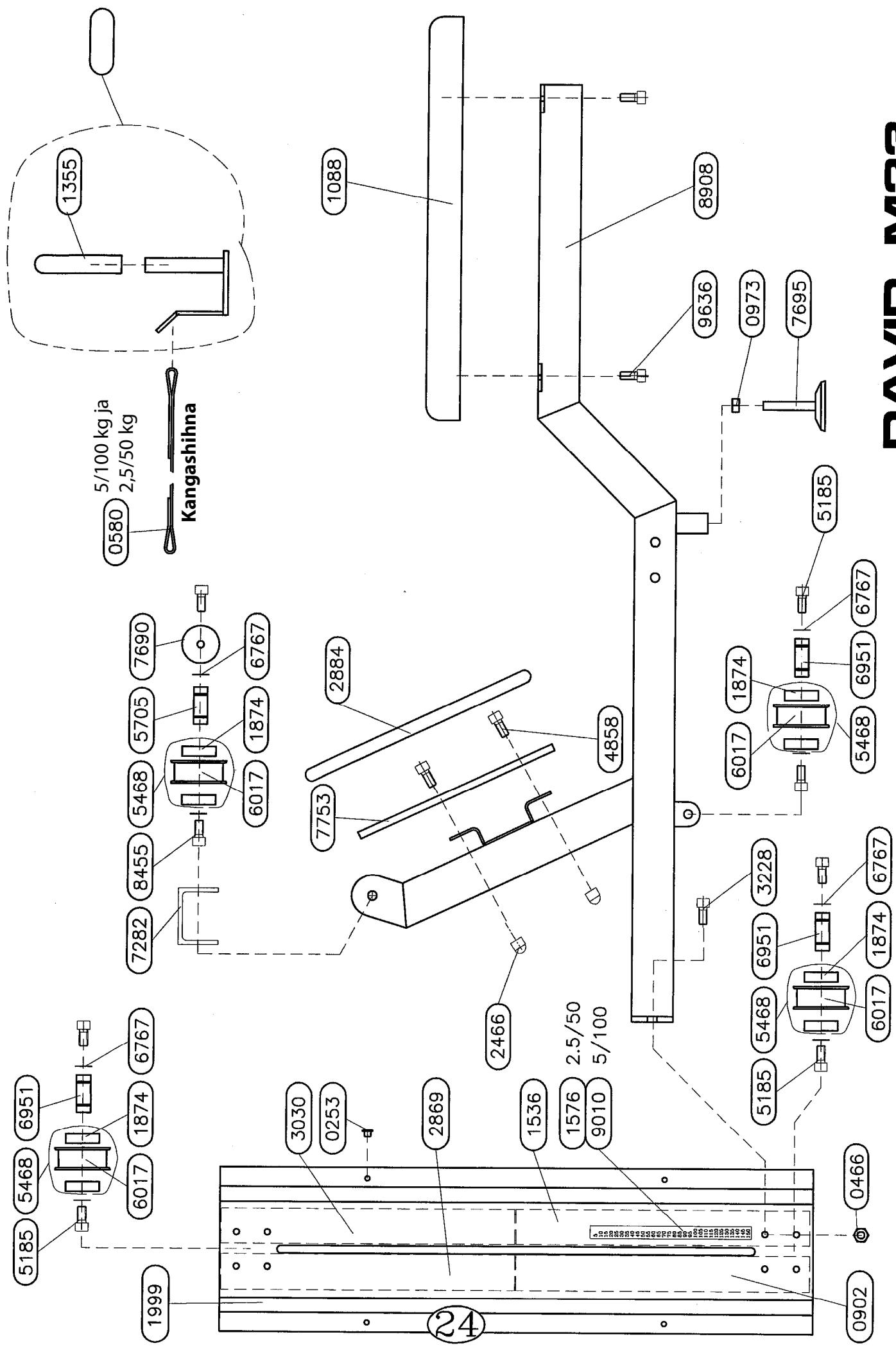


DAVID M22 =>4/98

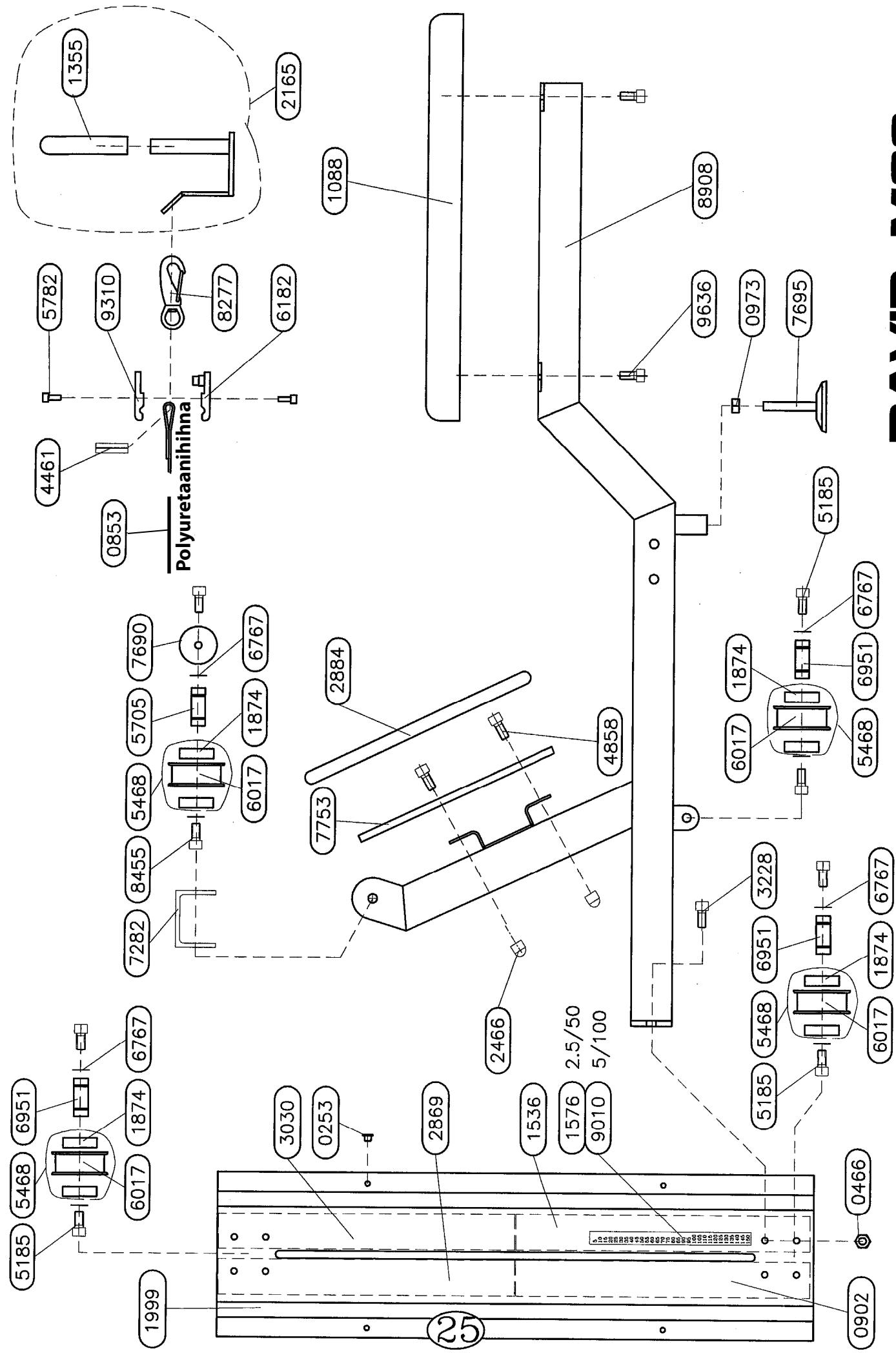




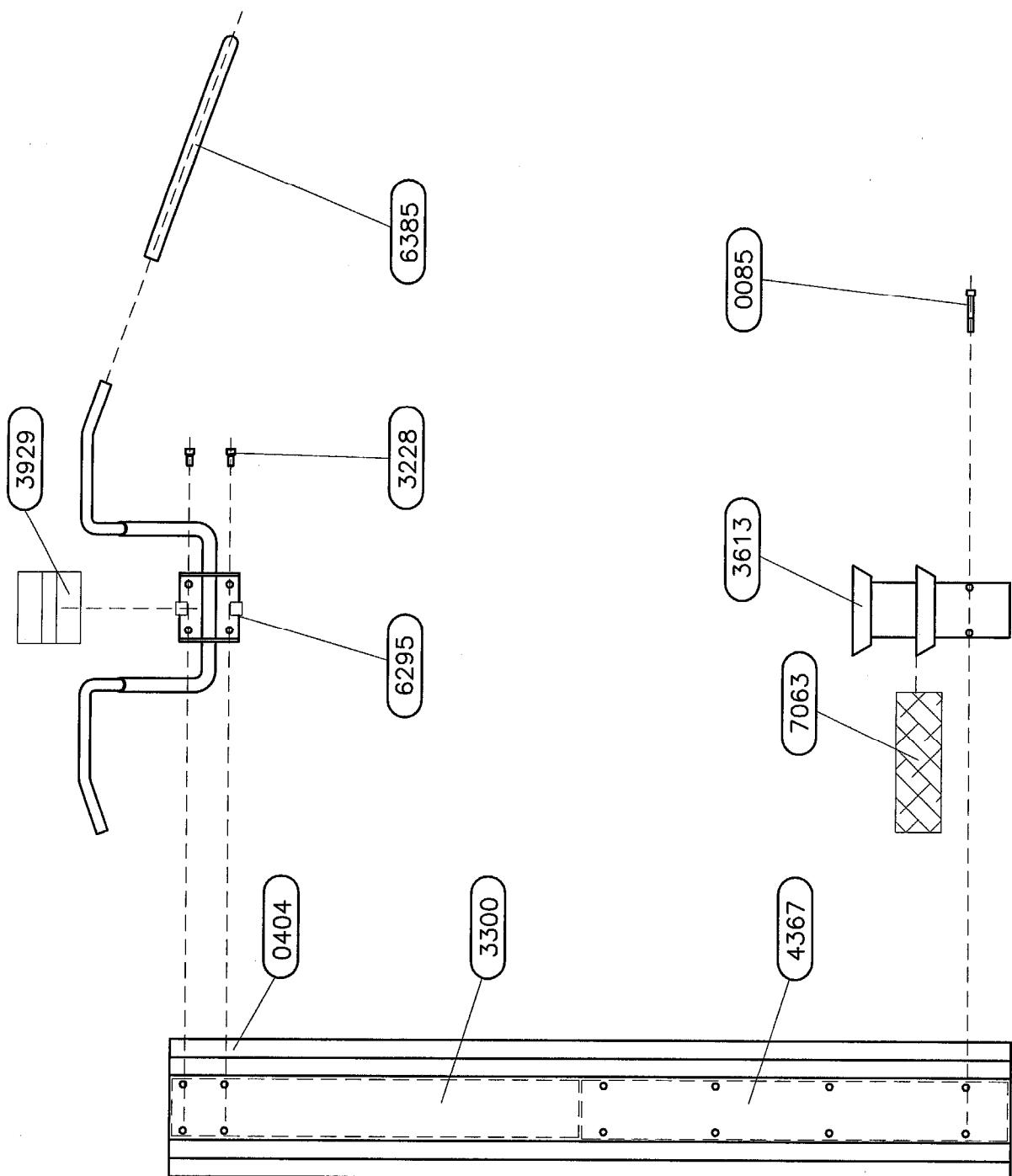
DAVID M22 5/98=>



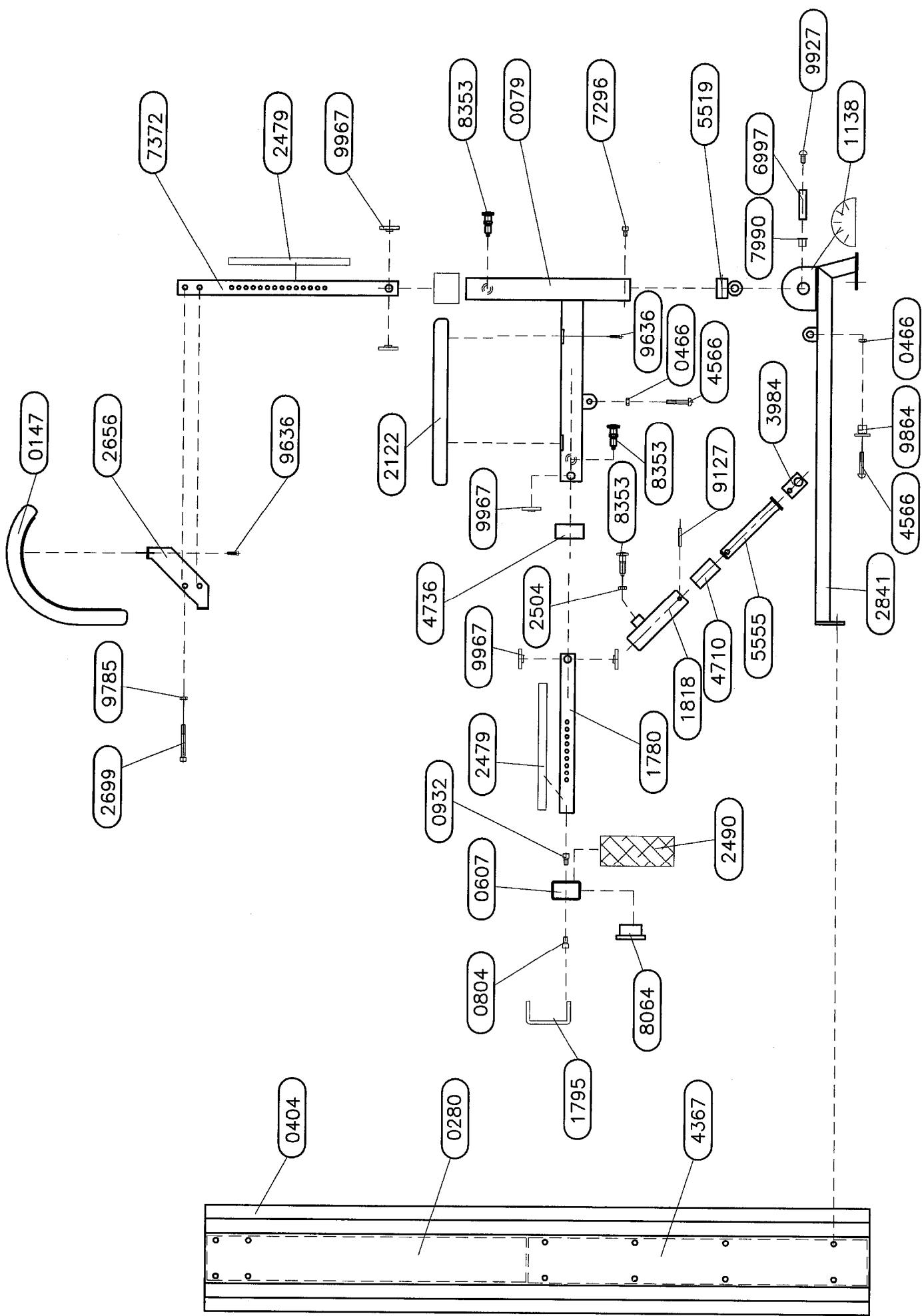
DAVID M23 5/98=>



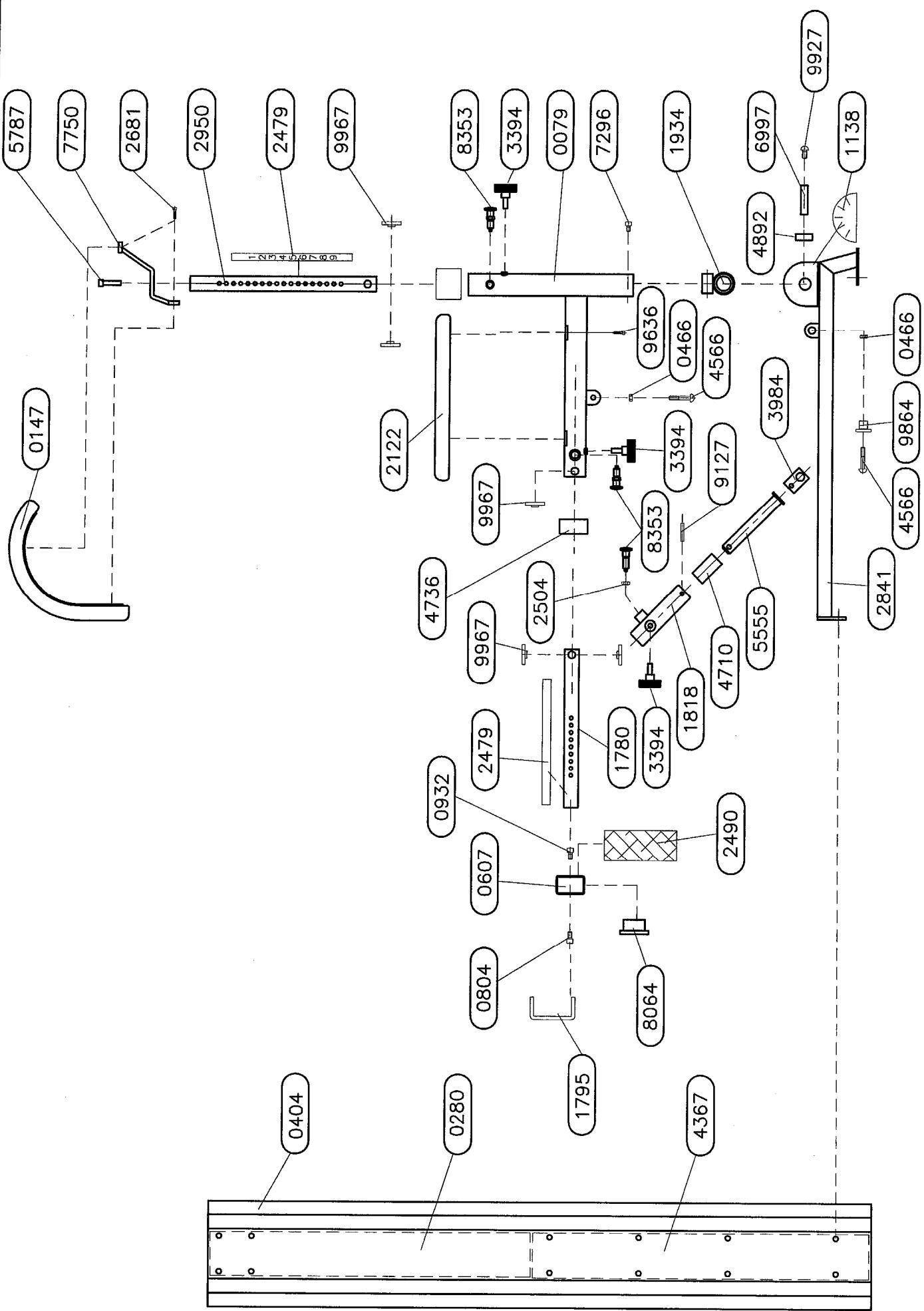
DAVID M24

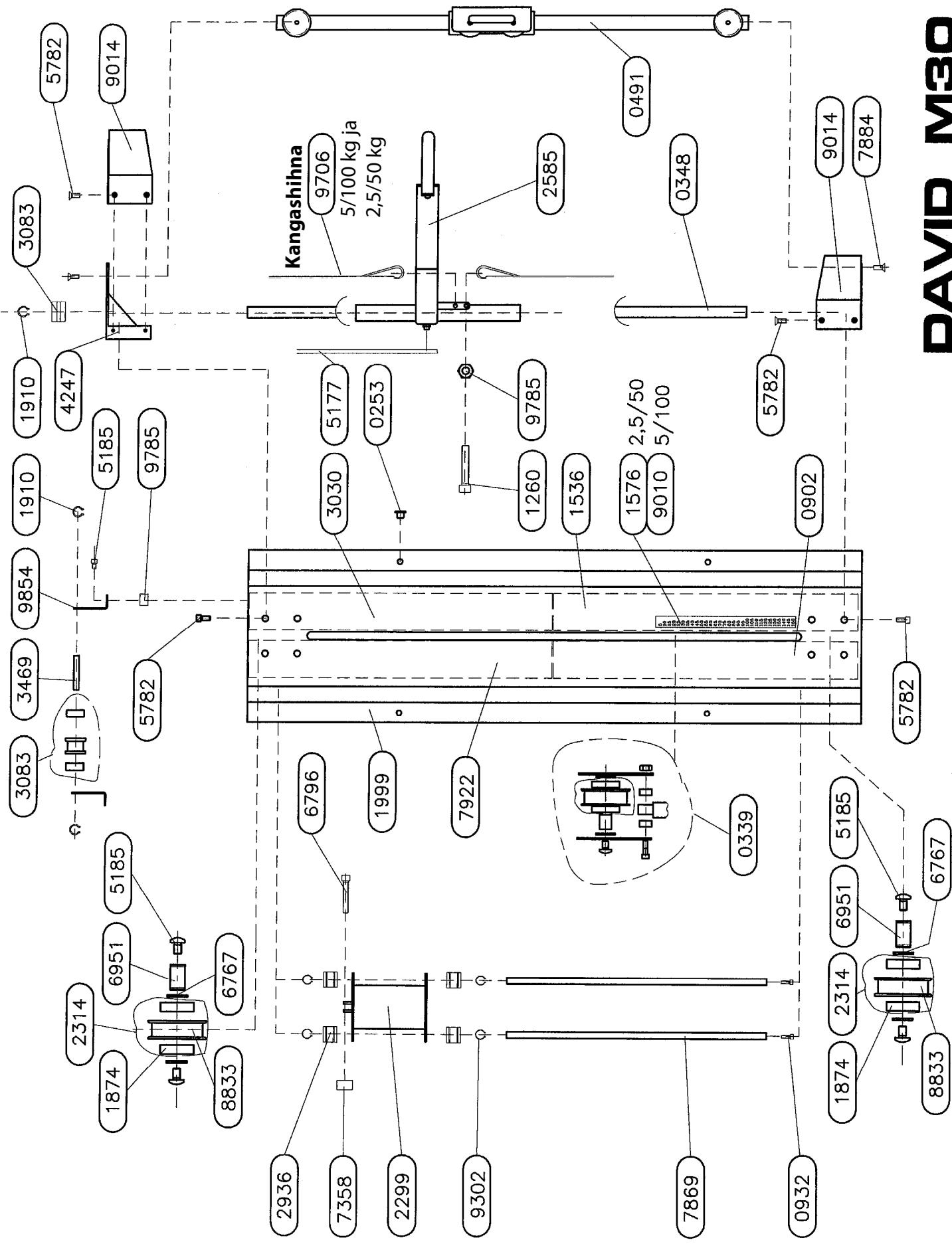


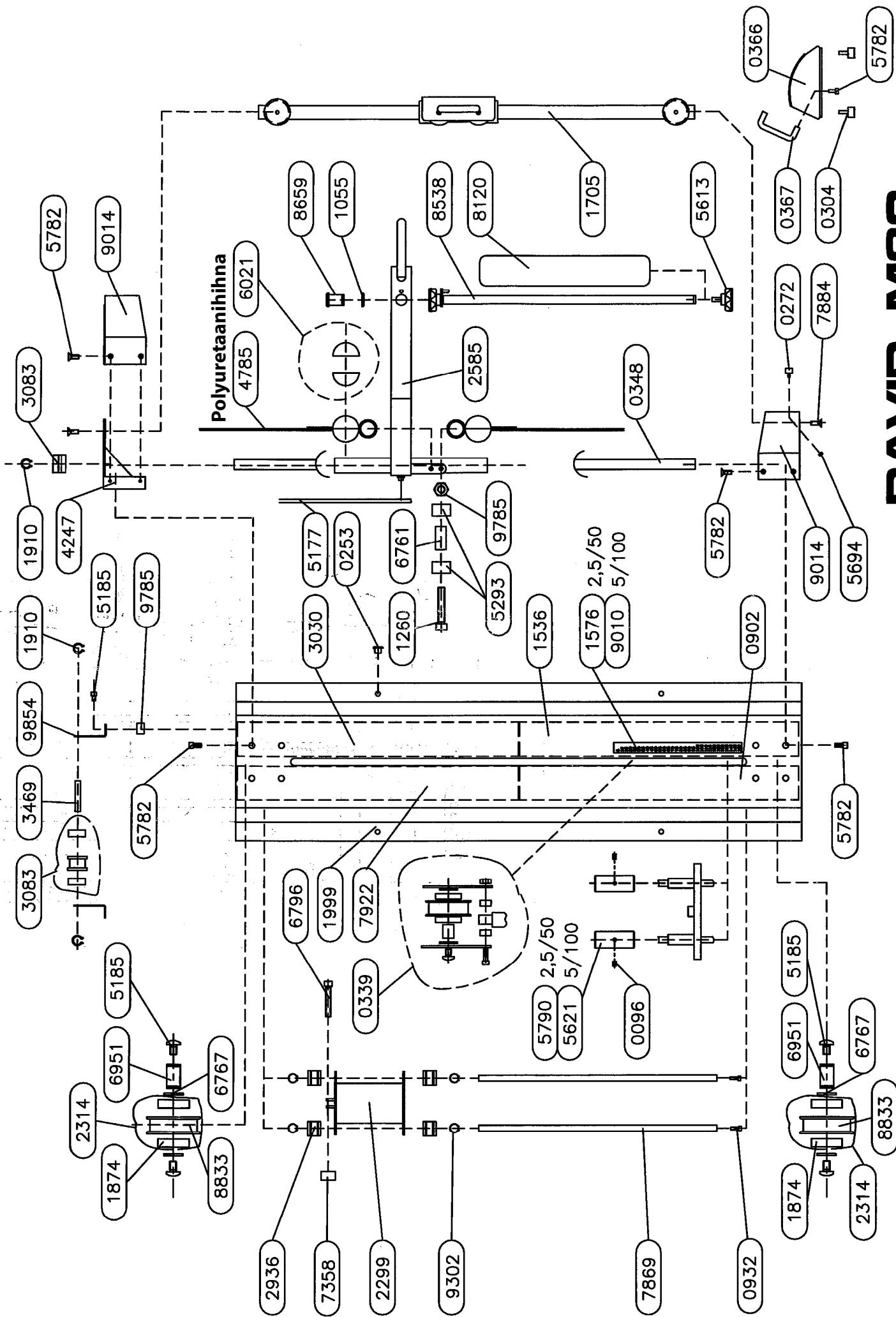
DAVID M26 =>4/98

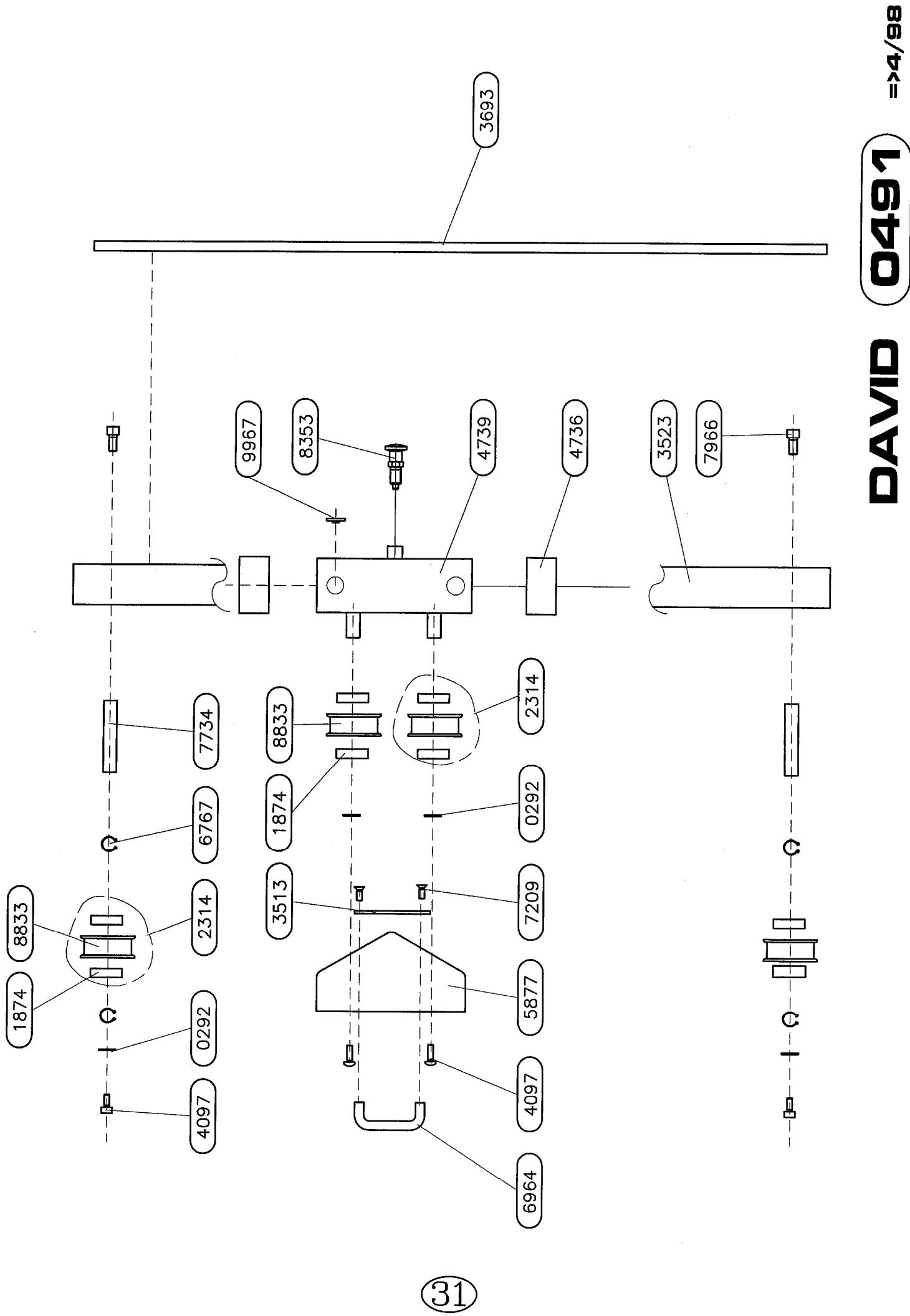


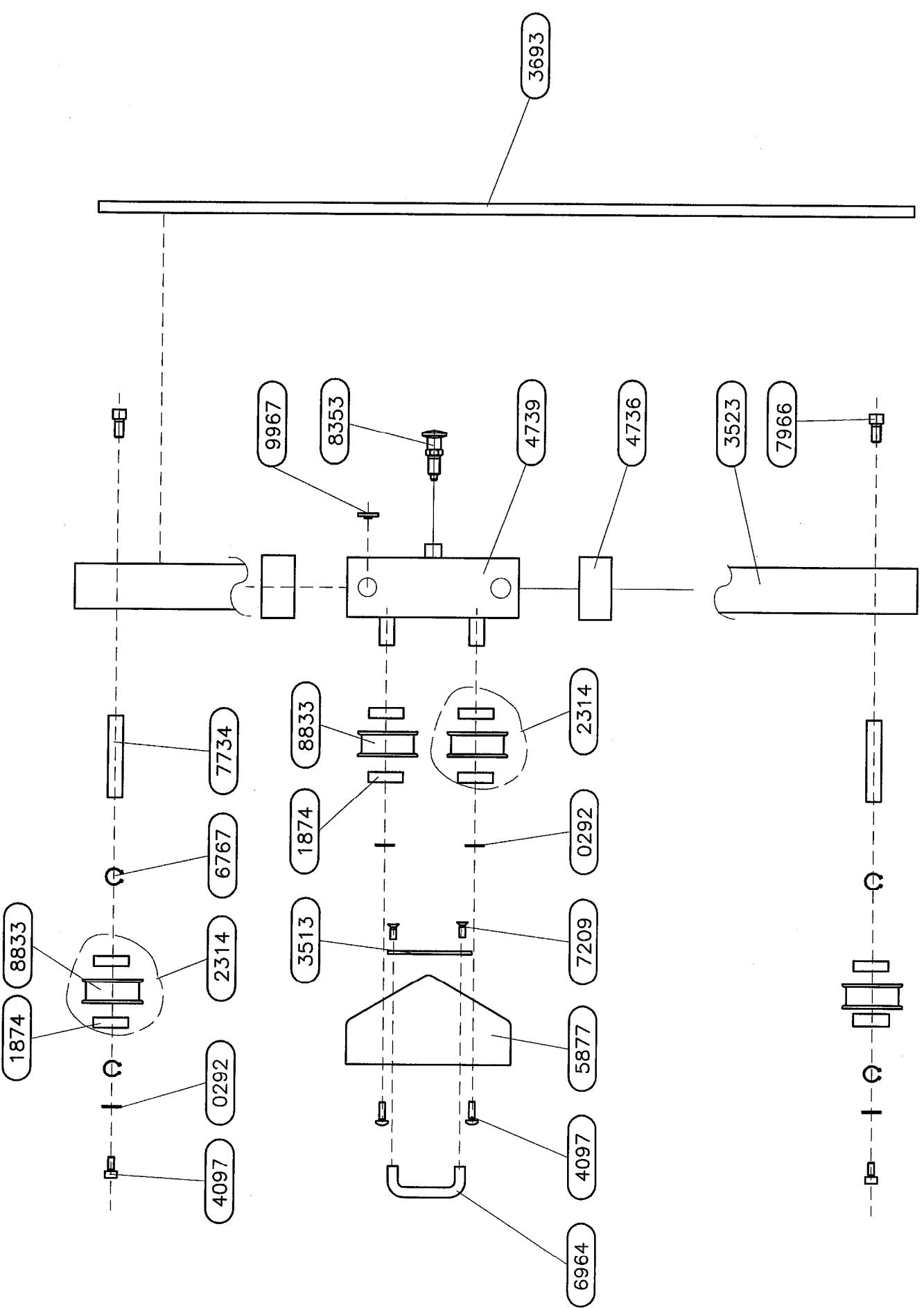
DAVID M26 5/98=>

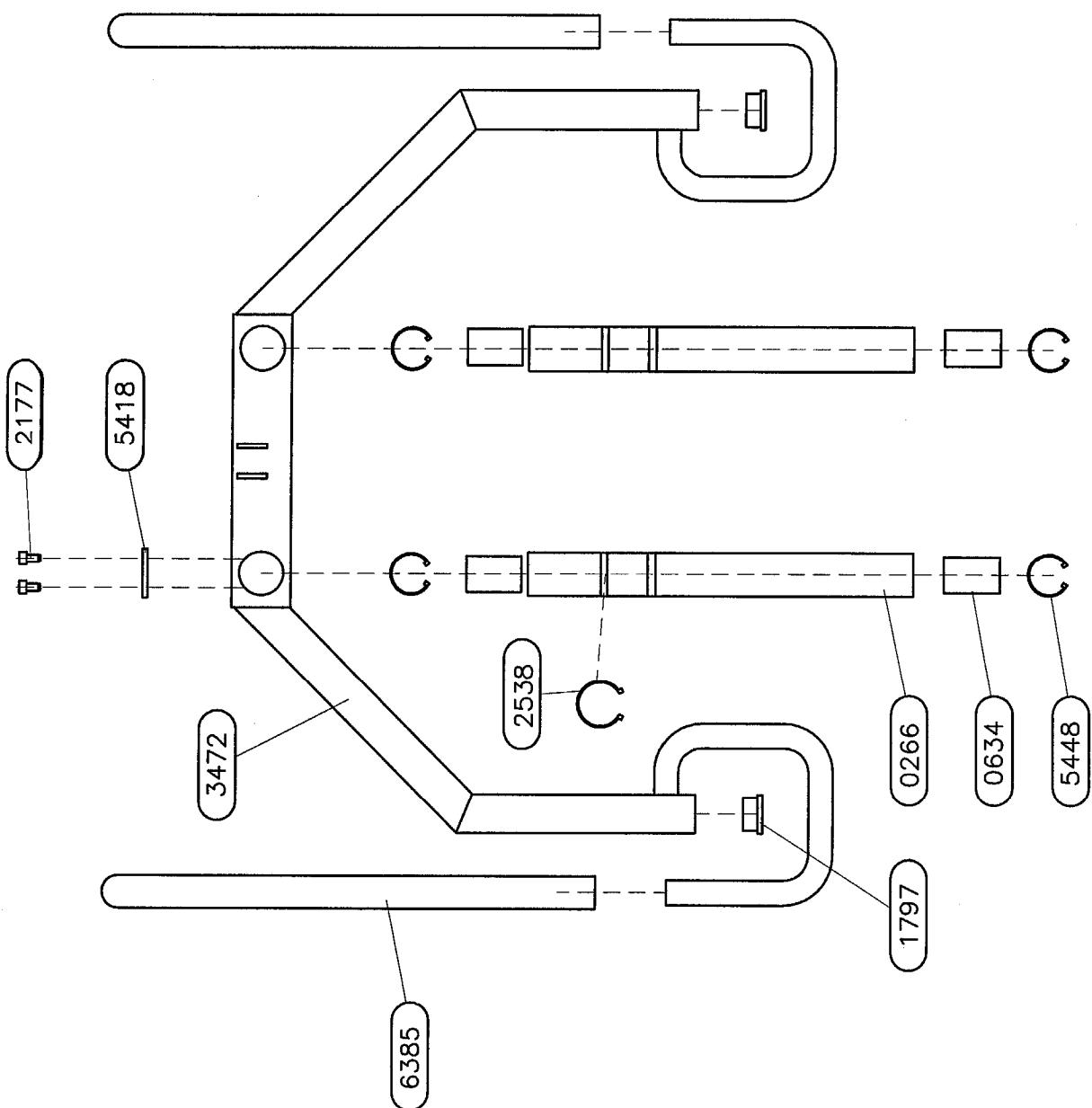


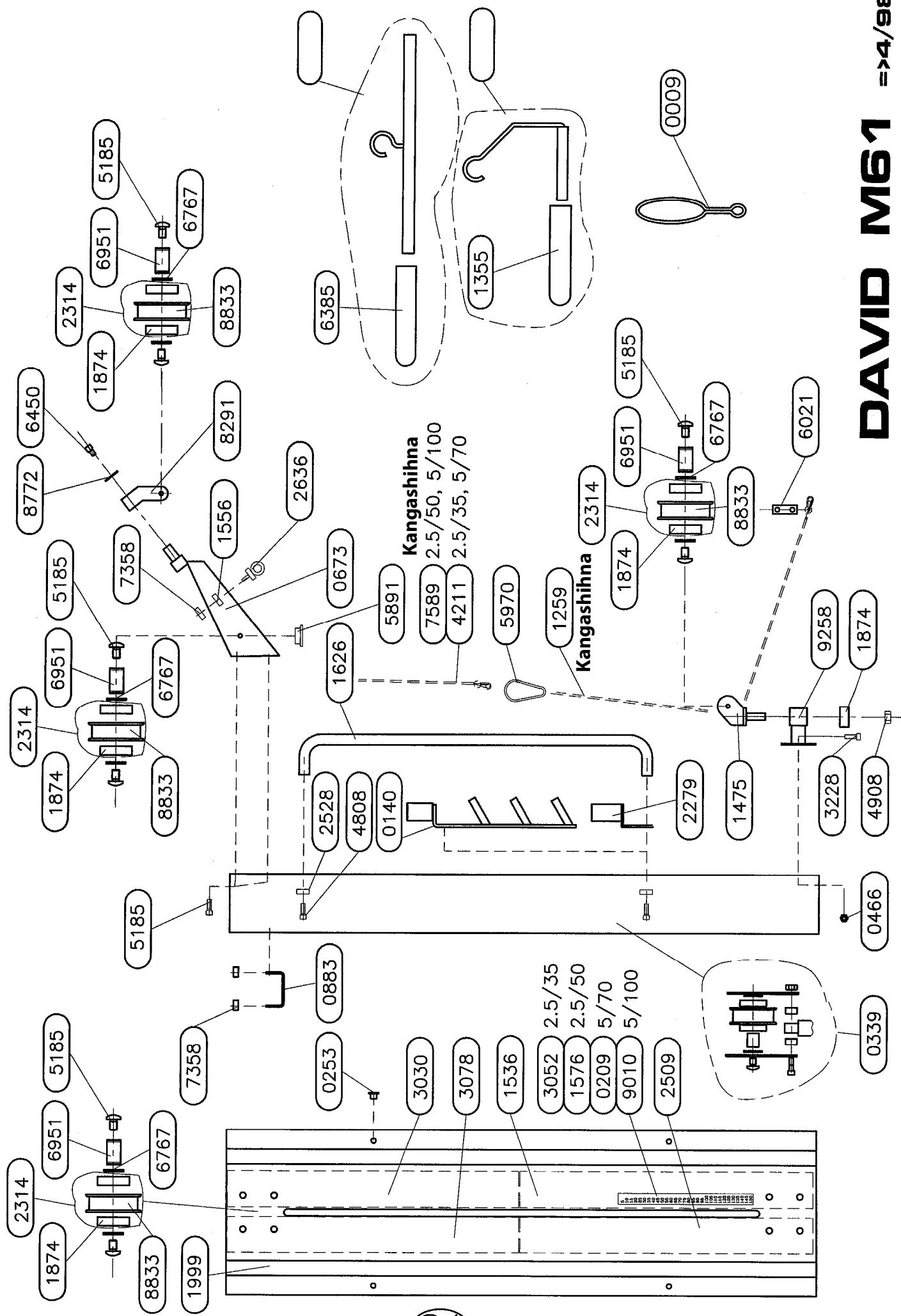


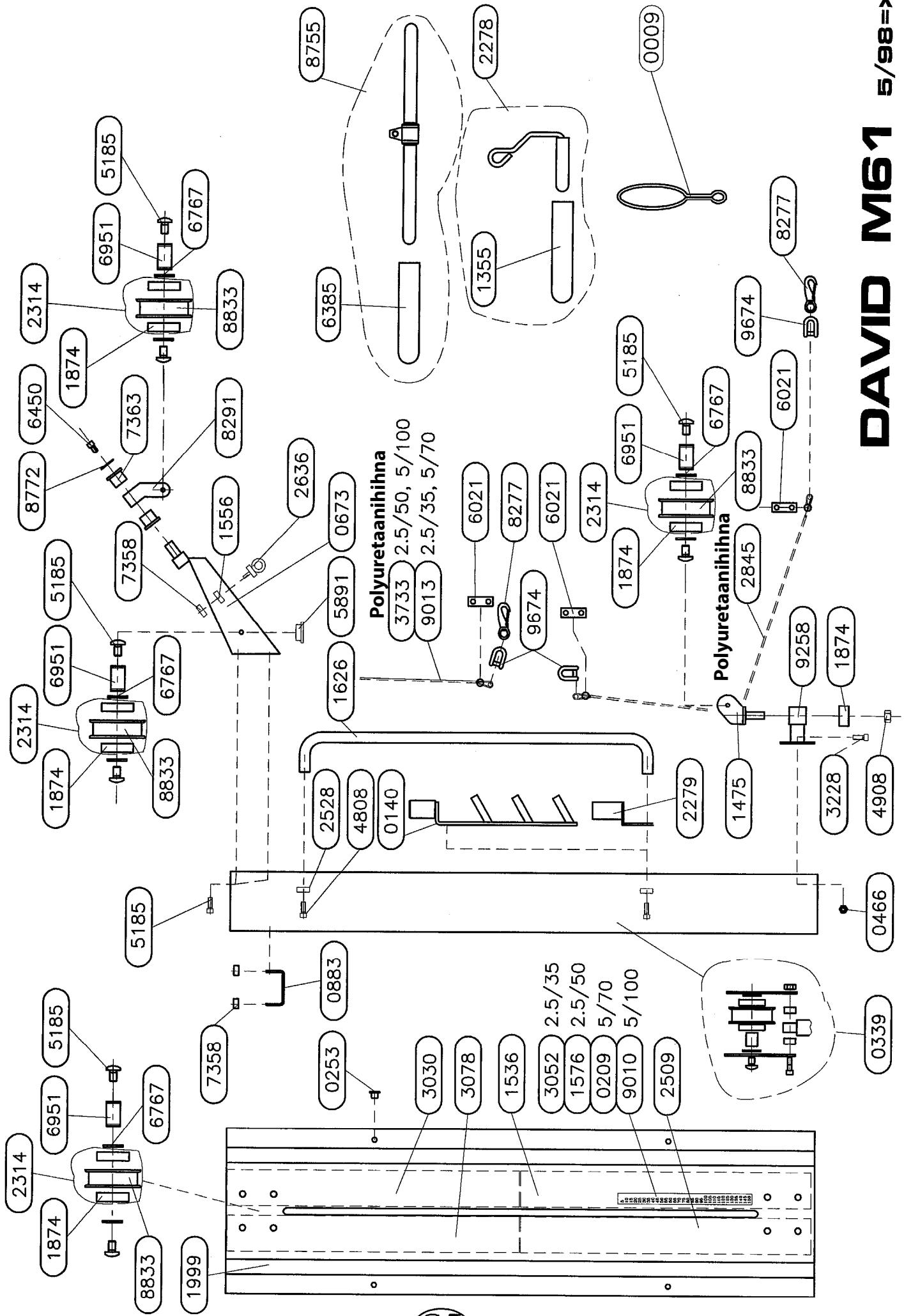


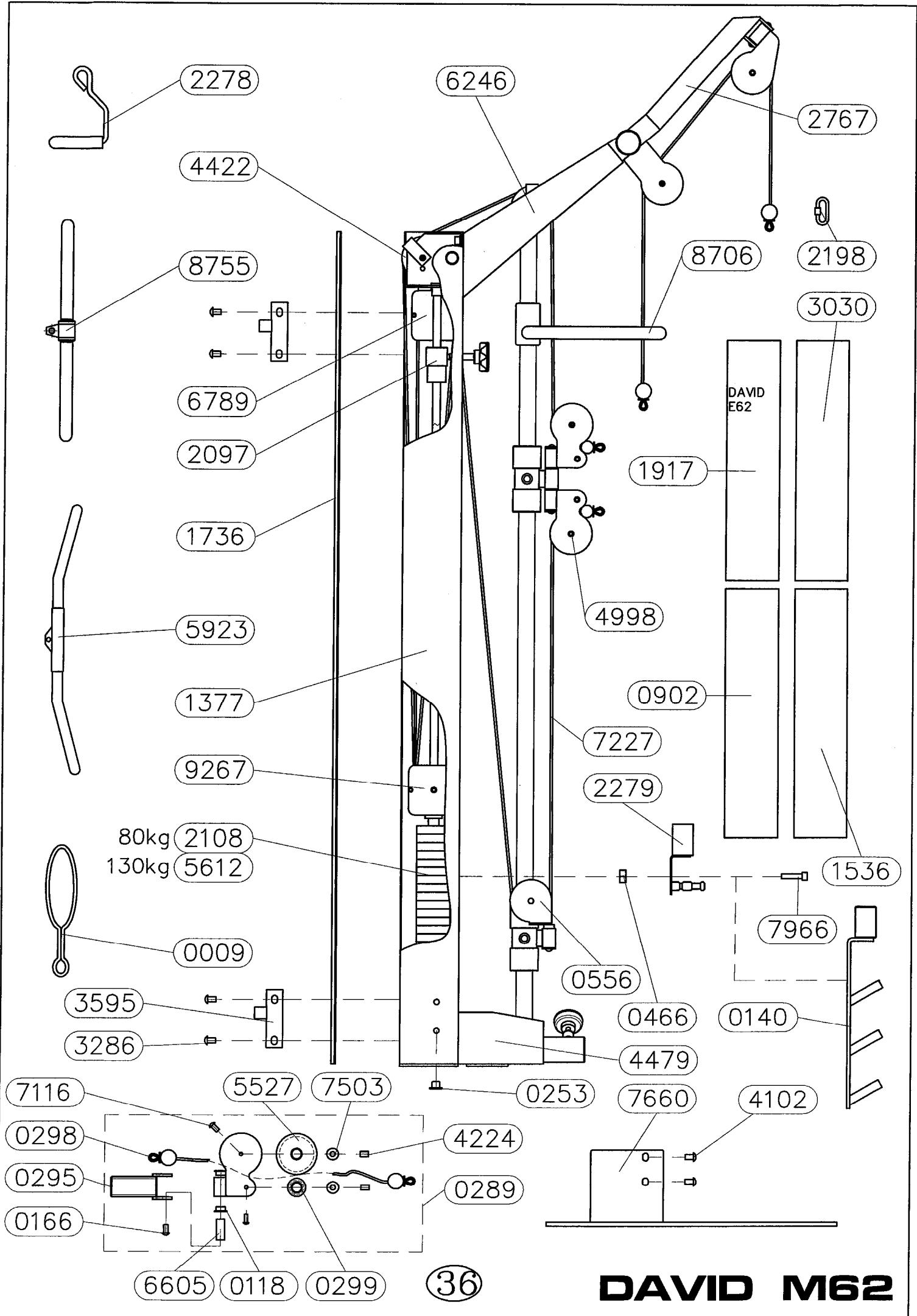


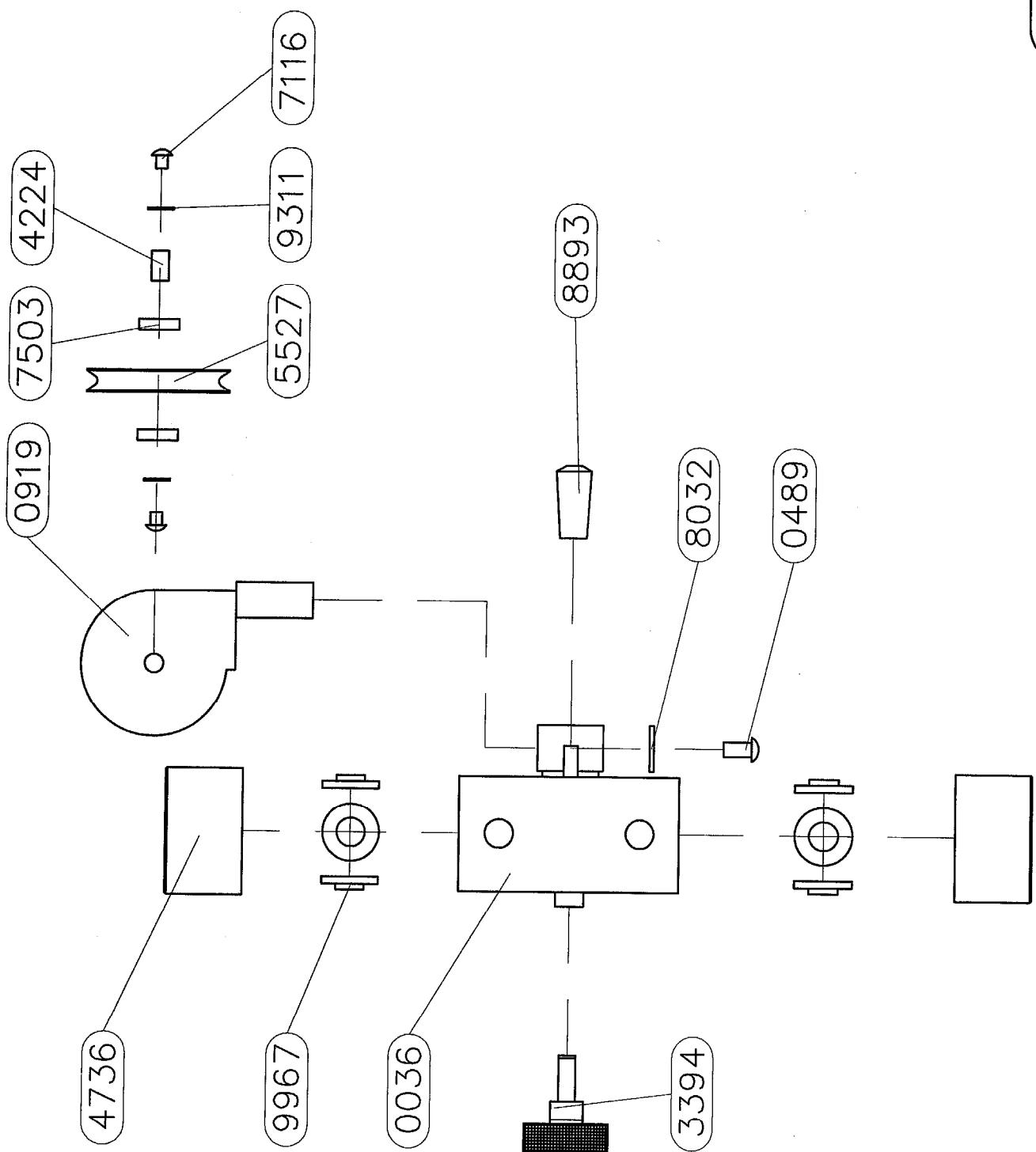






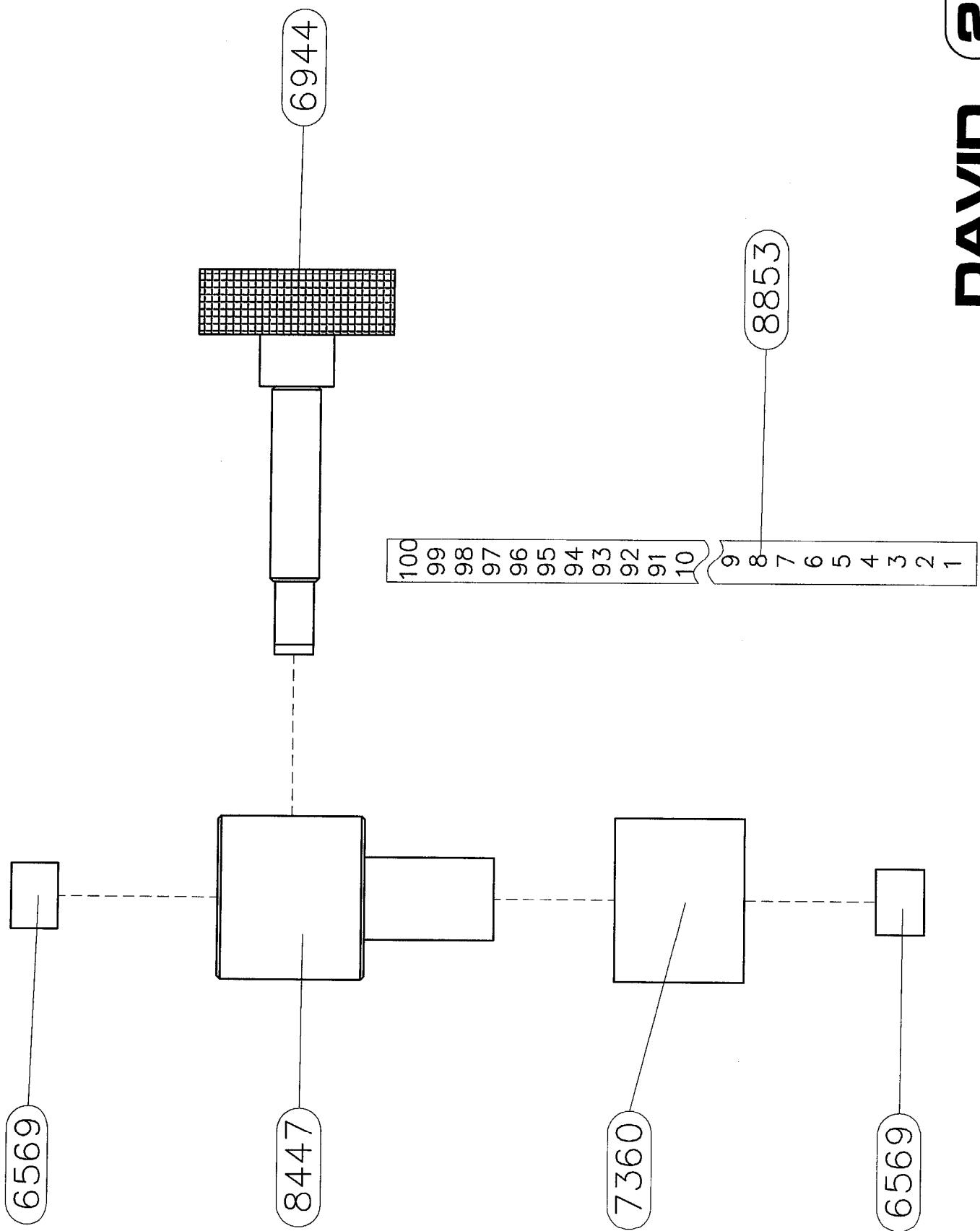


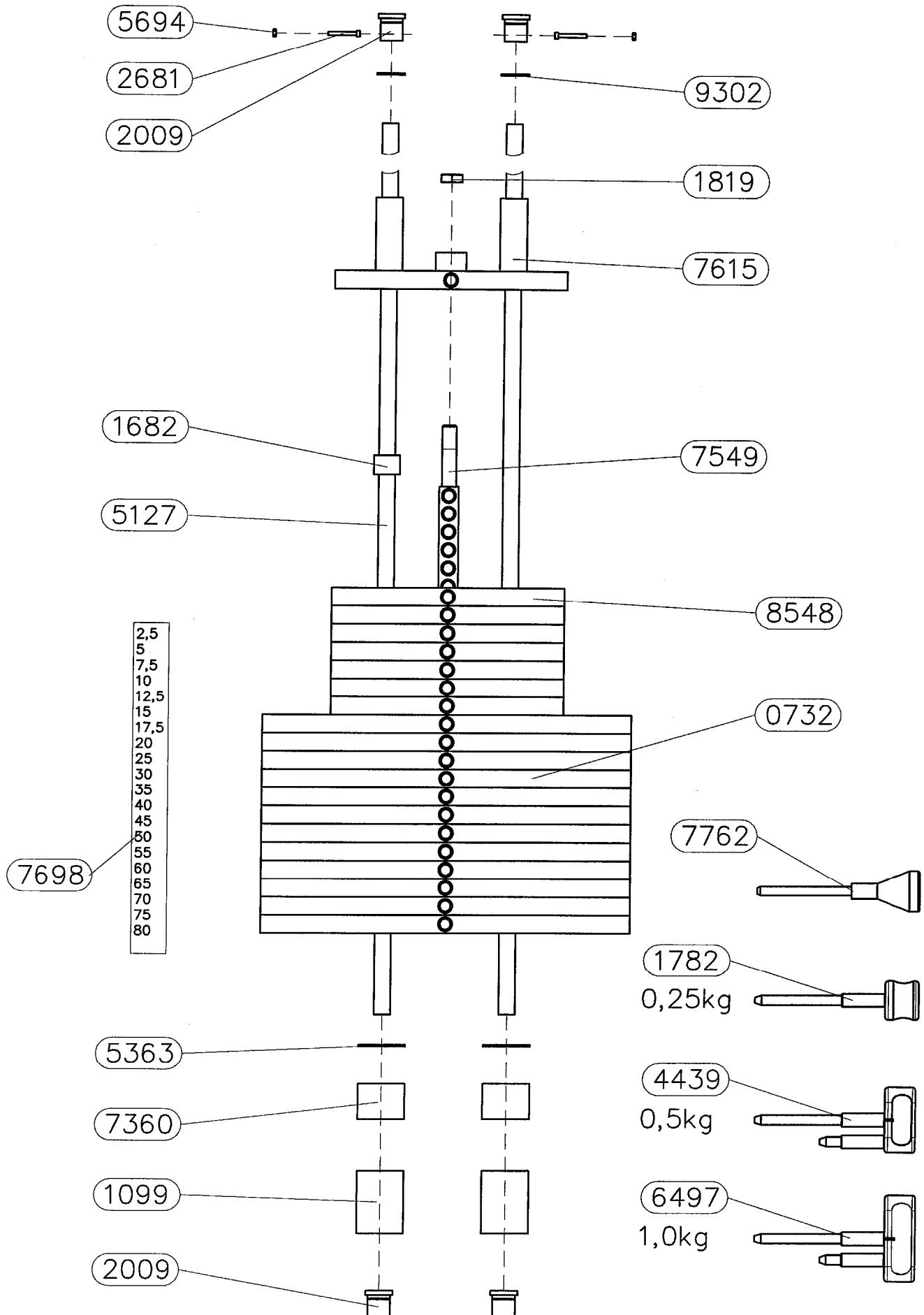




2097

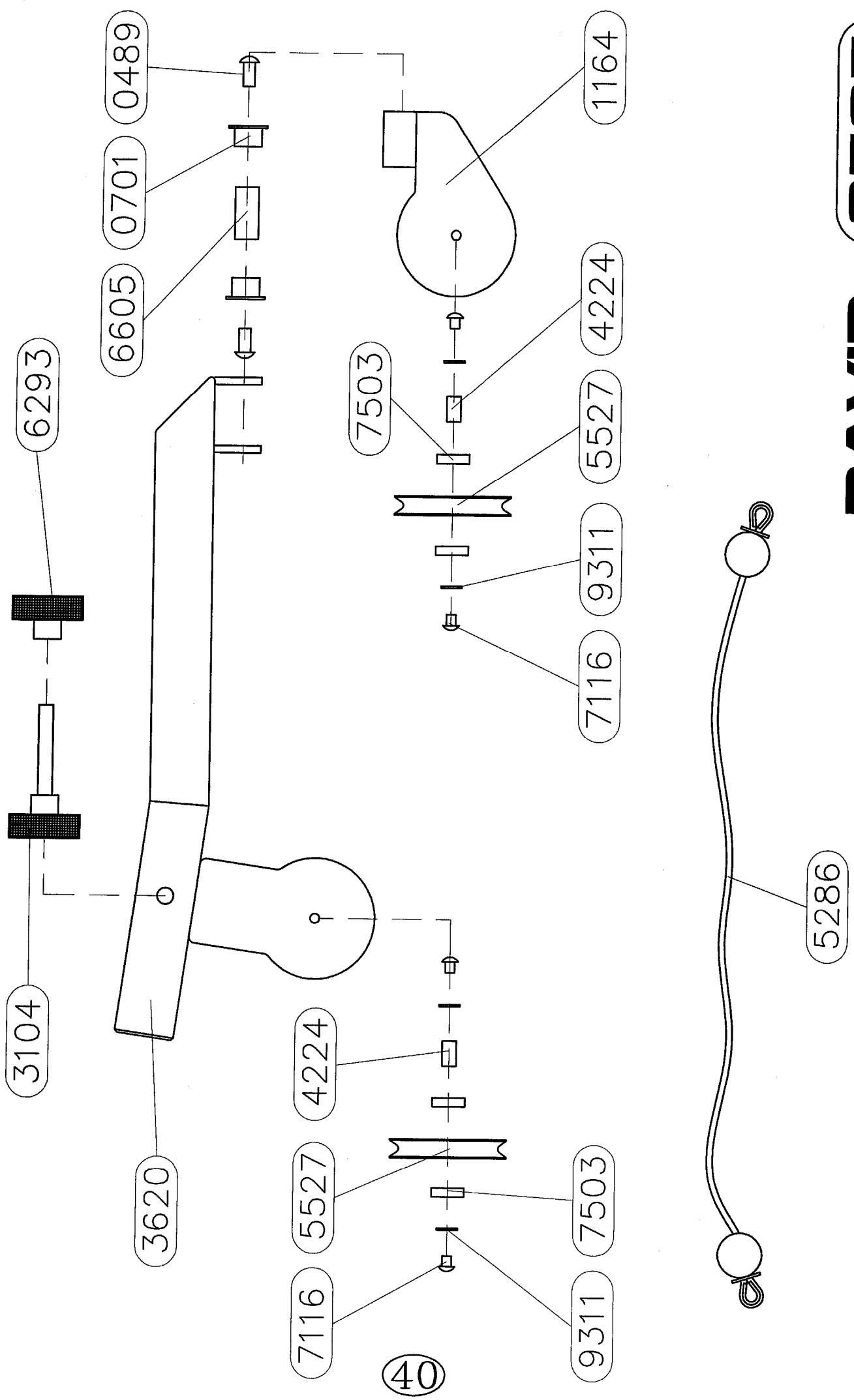
DAVID





2767

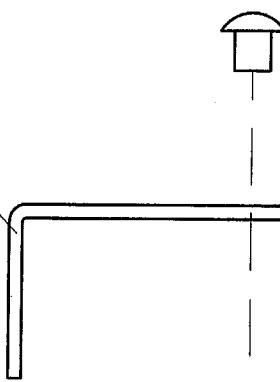
DAVID



4422

DAVID

5338

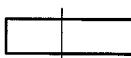


41

2140



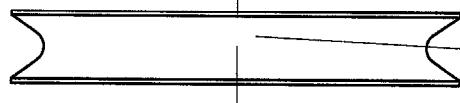
7503



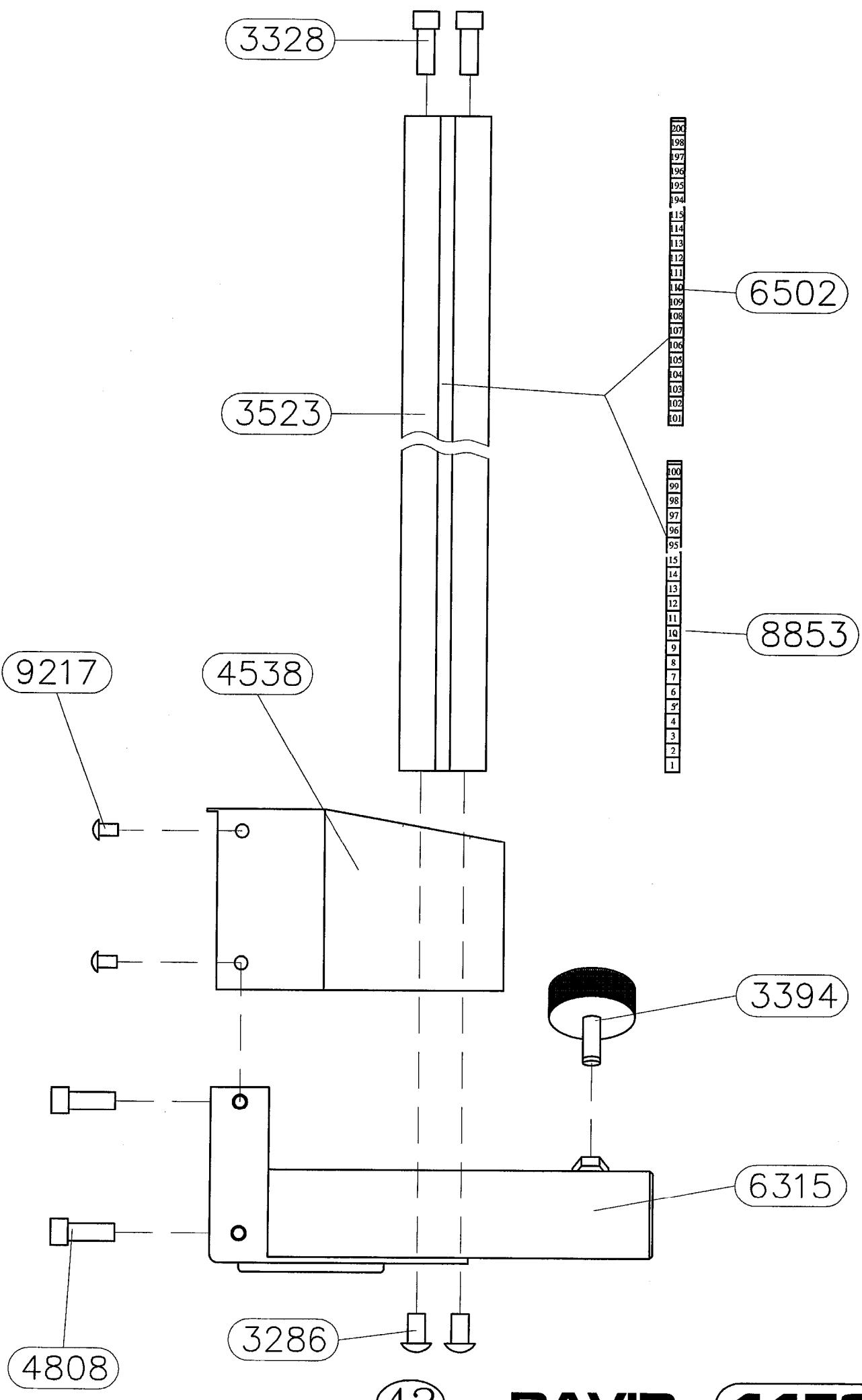
3099



7116

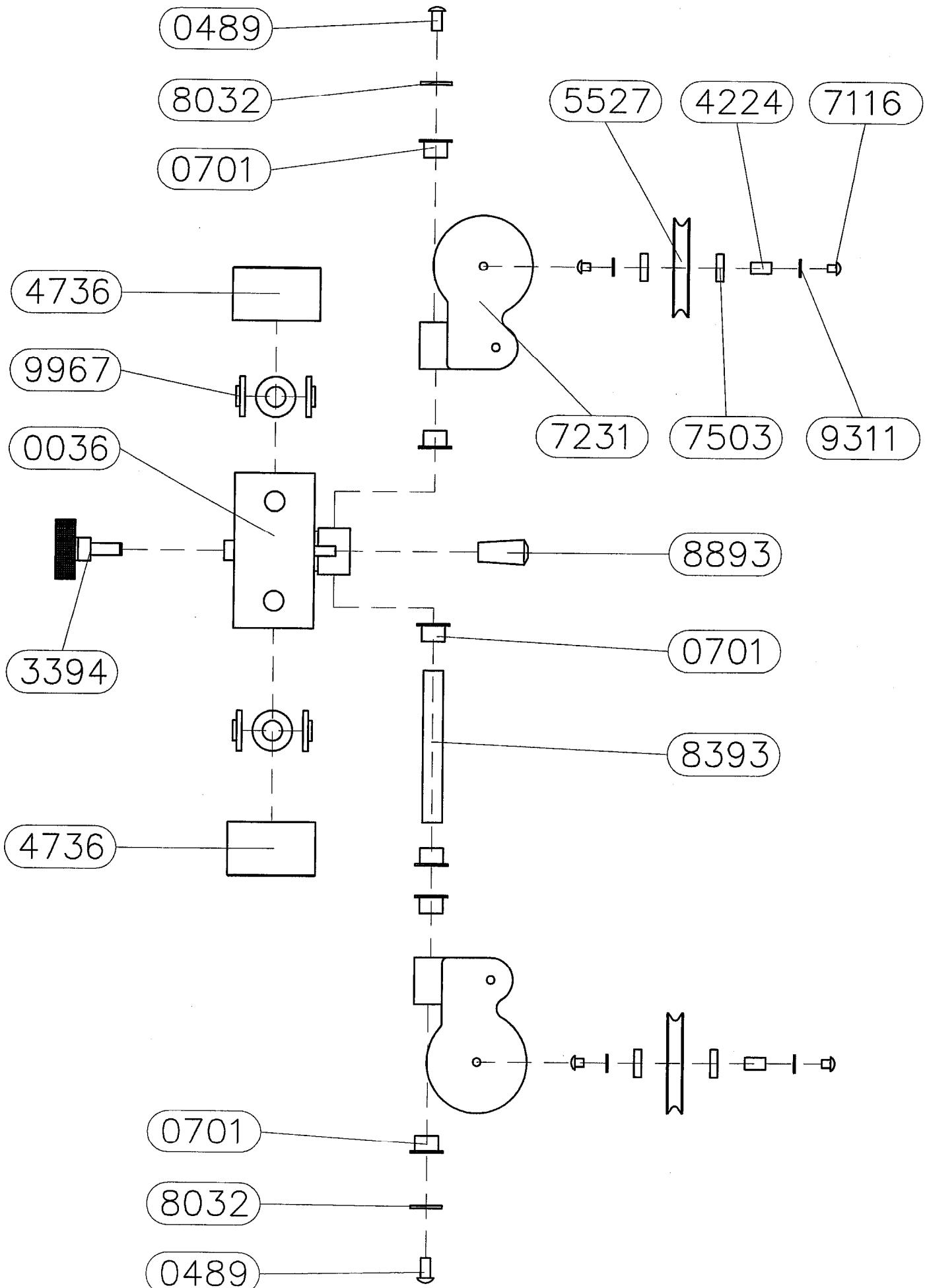


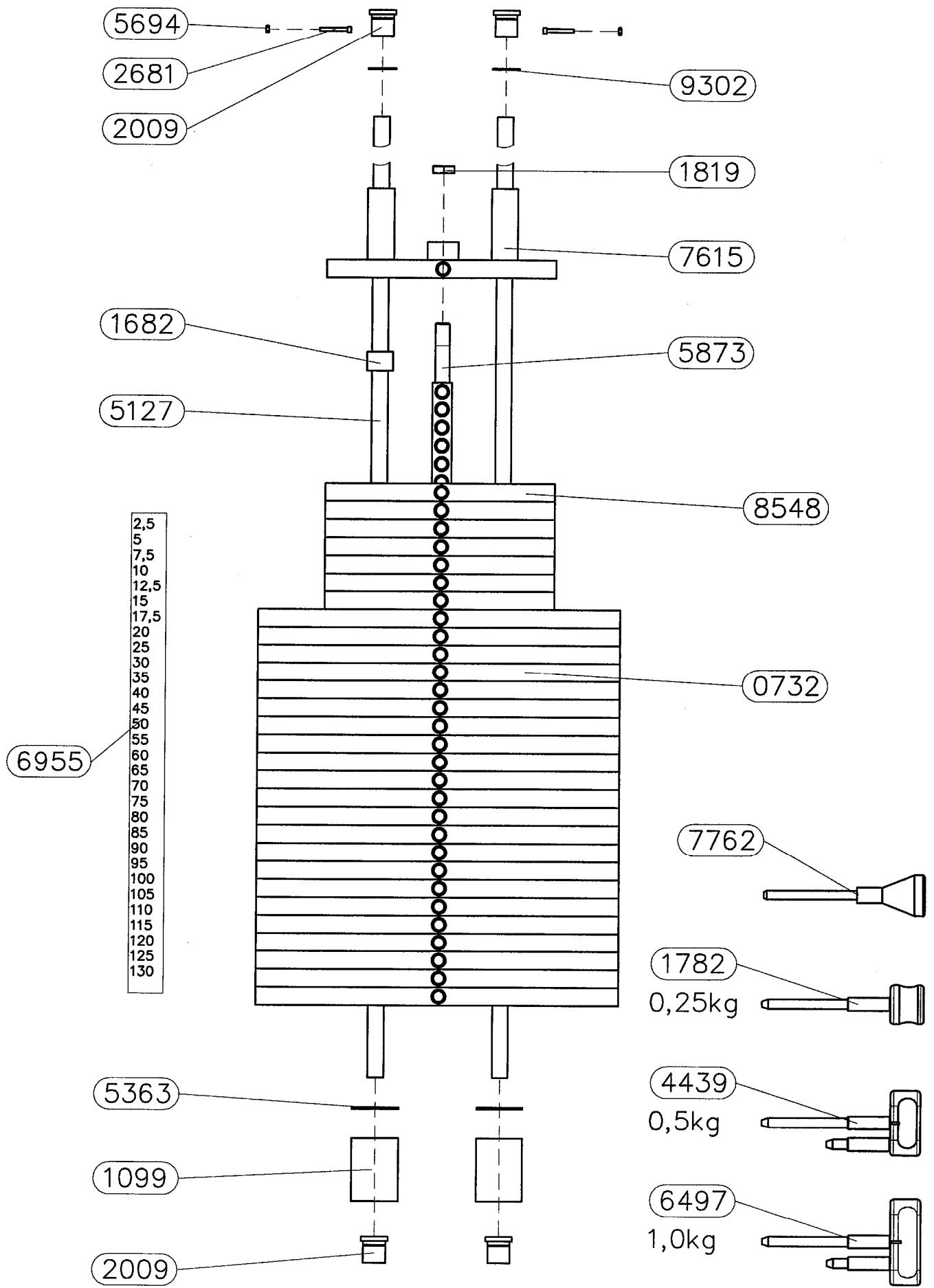
5527



DAVID

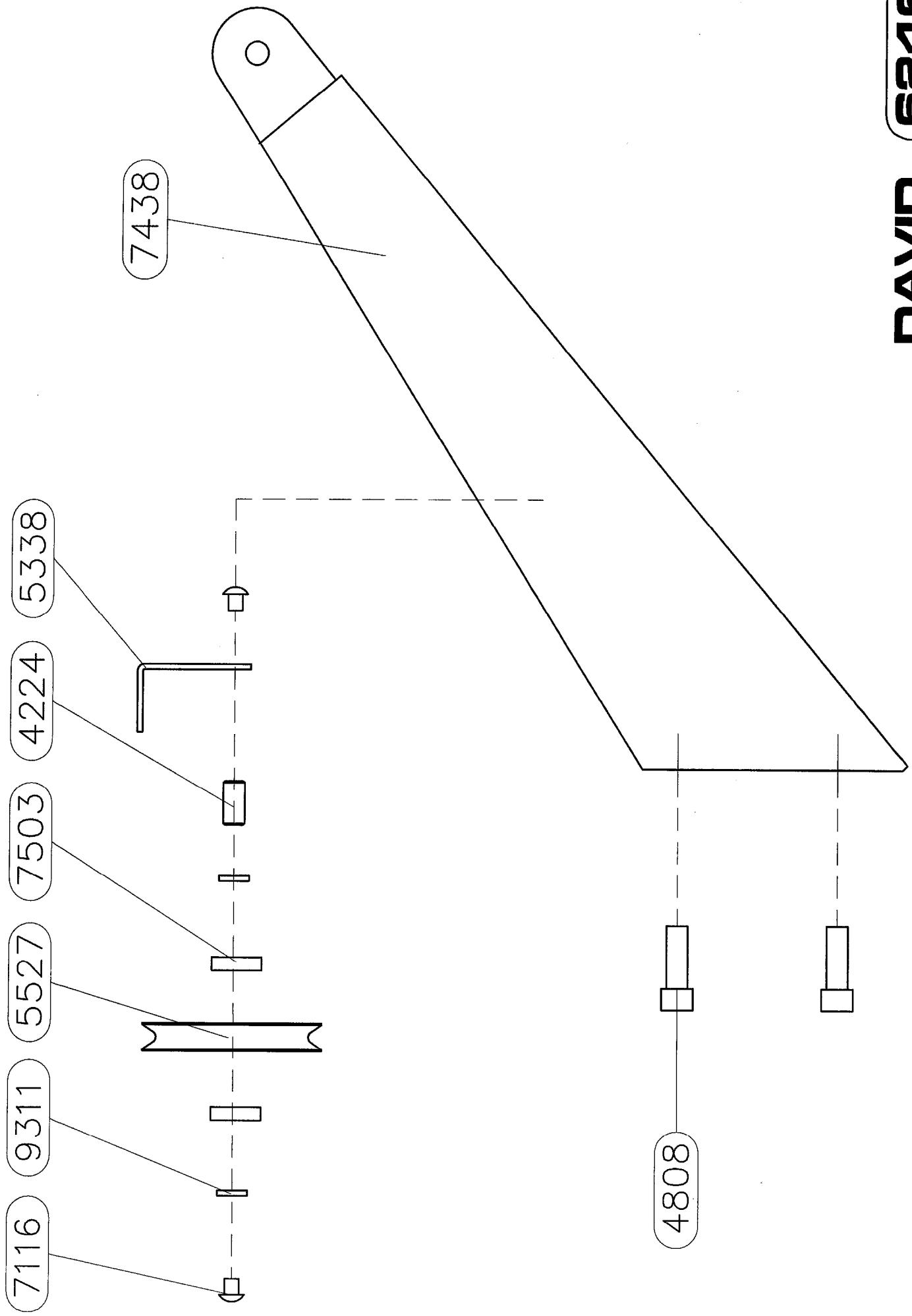
4479





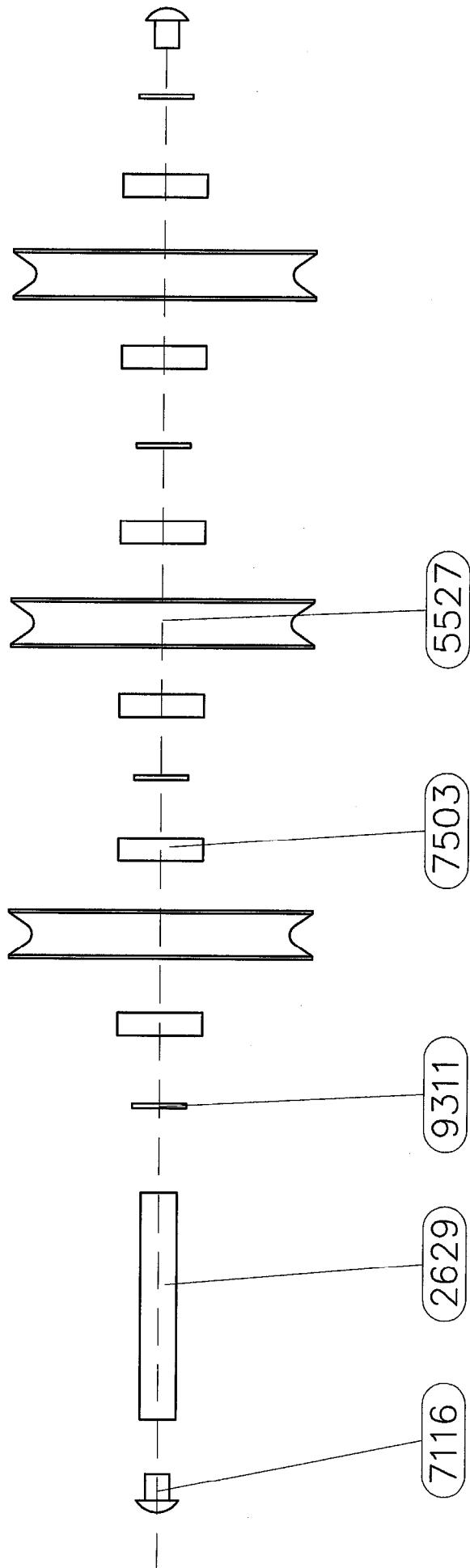
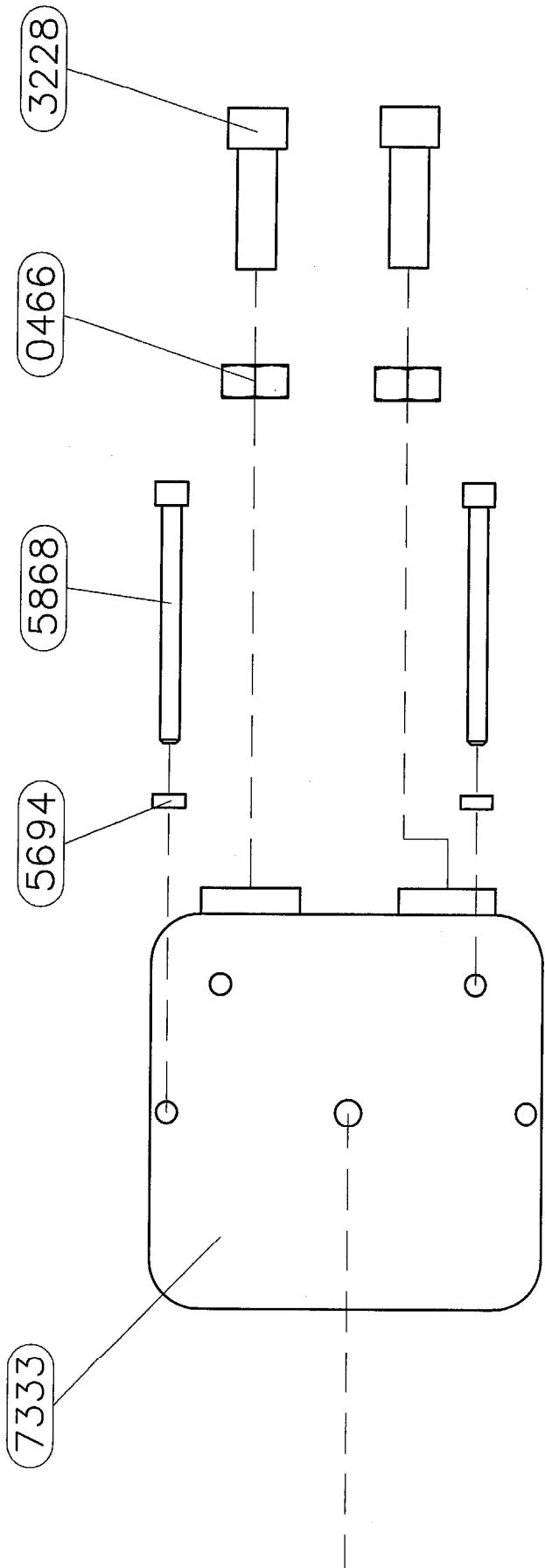
6246

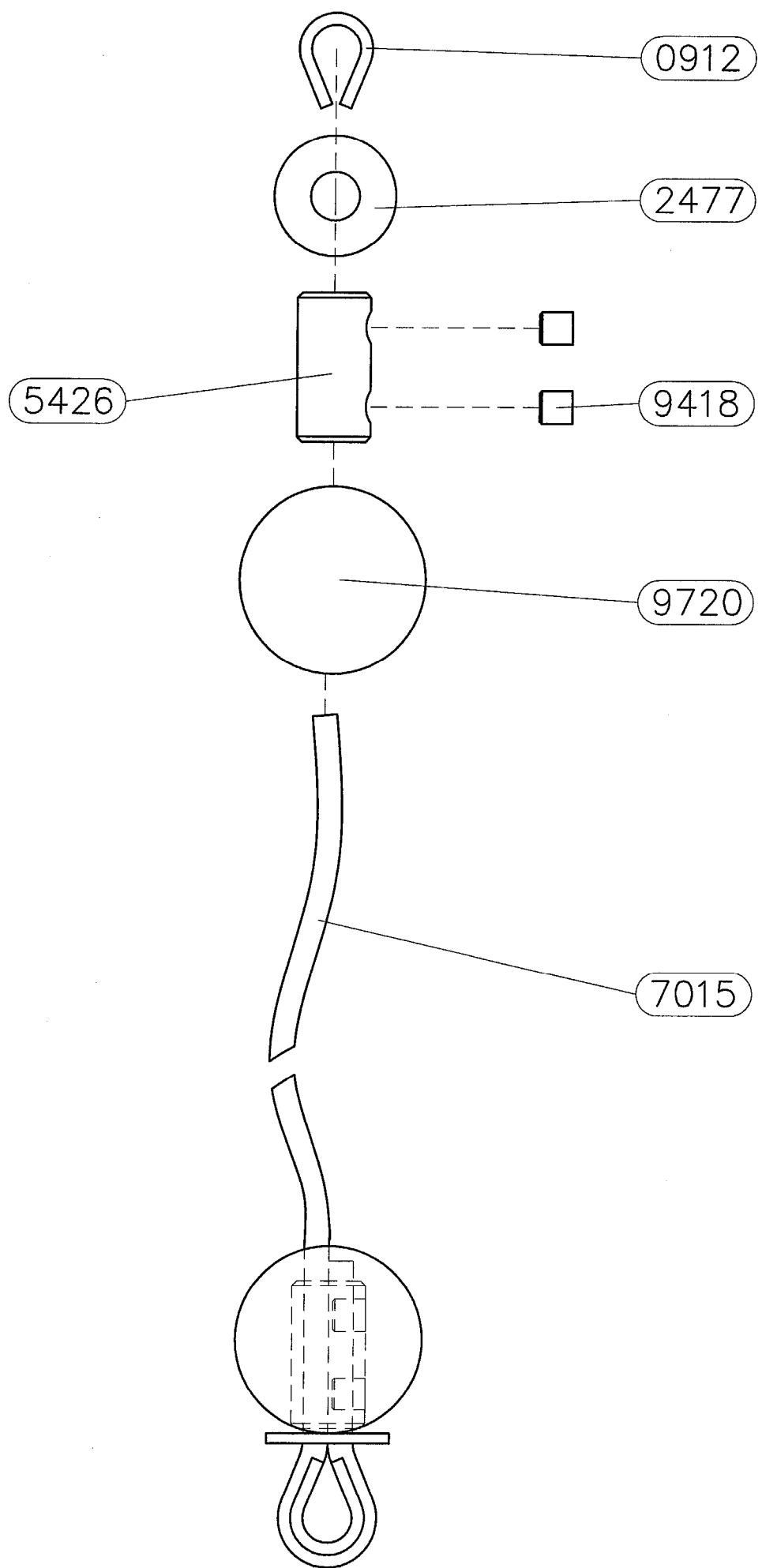
DAVID



6789

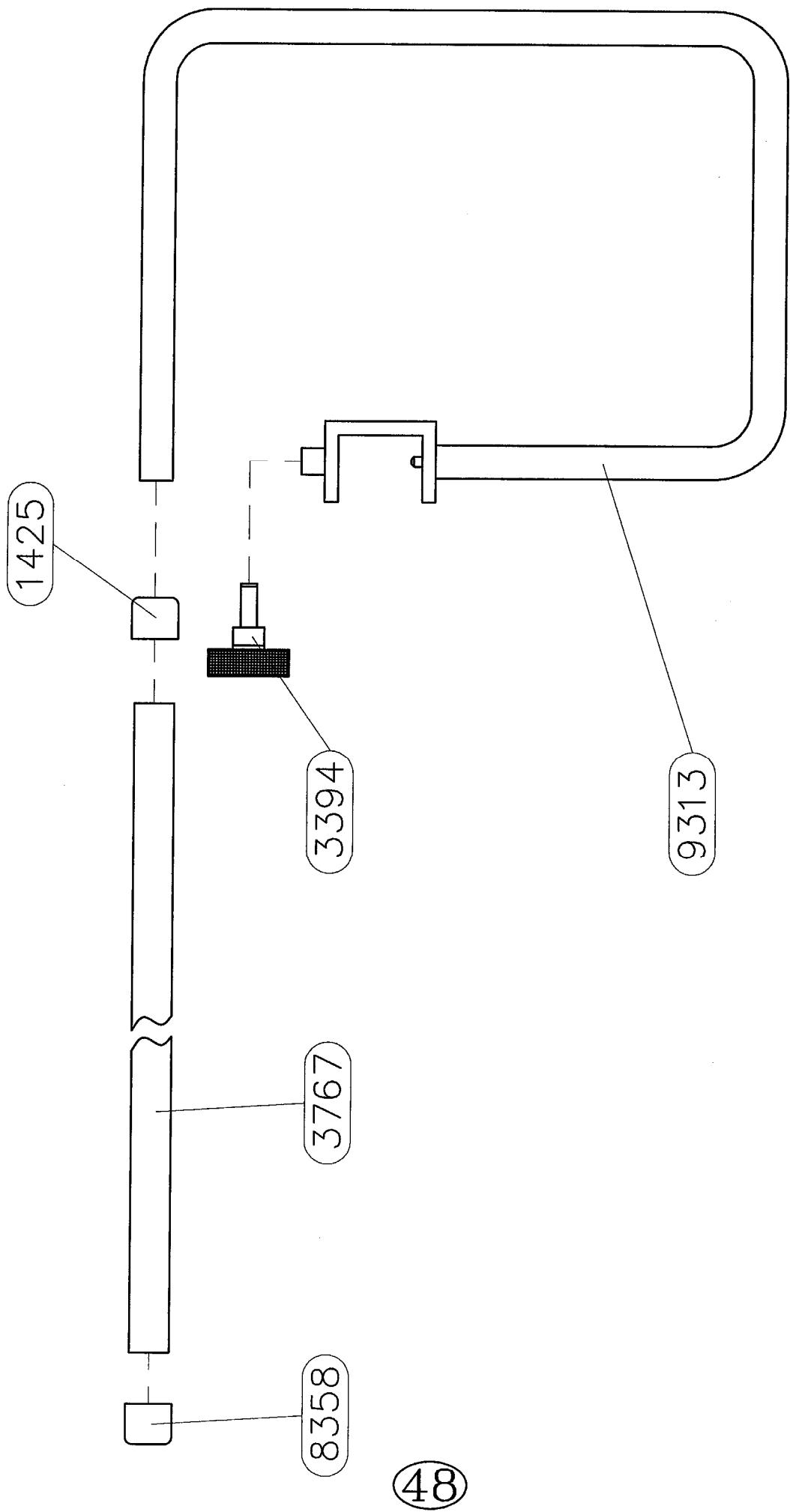
DAVID





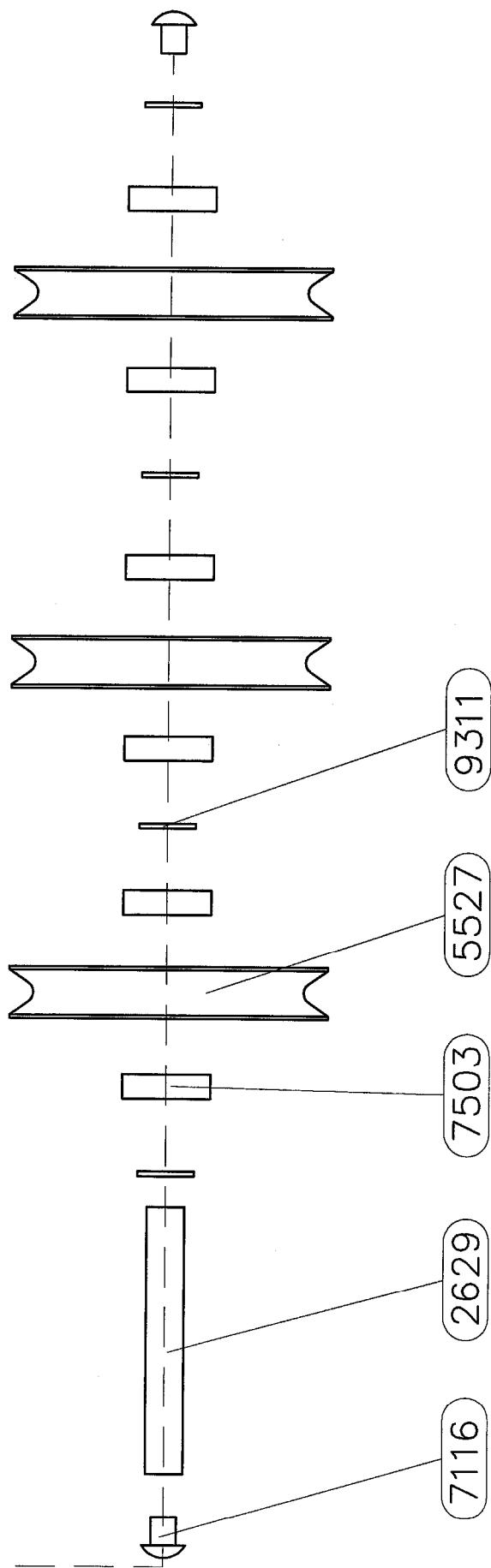
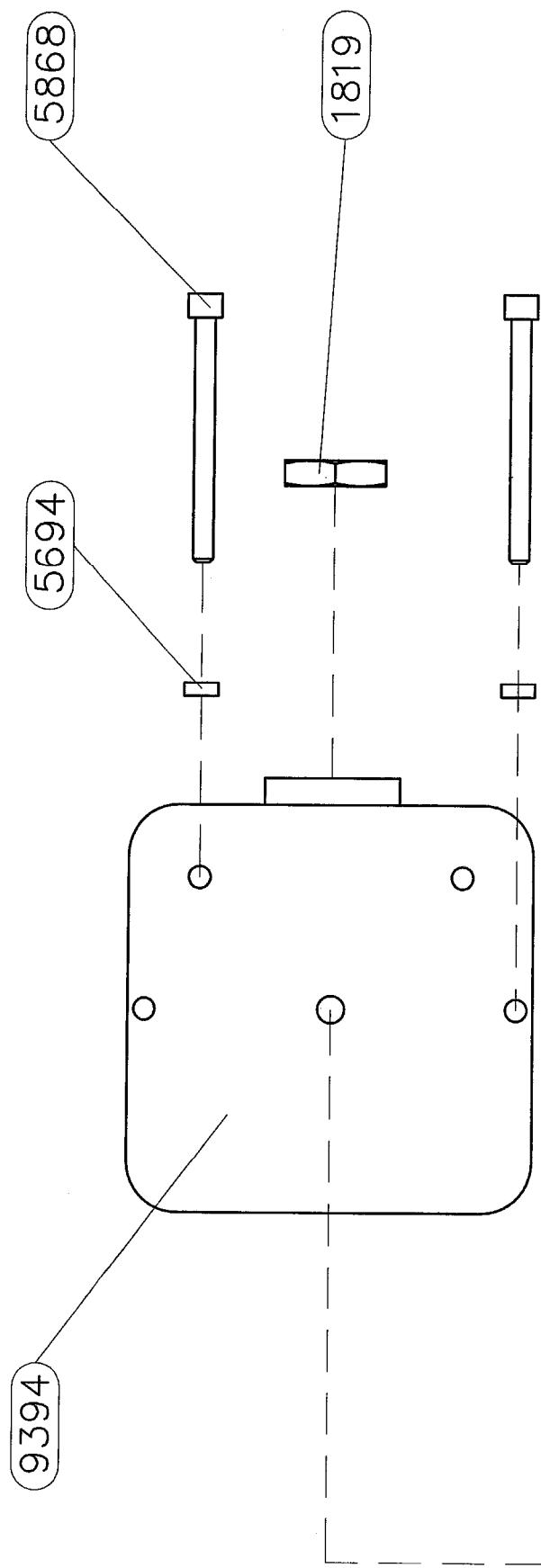
8706

DAVID

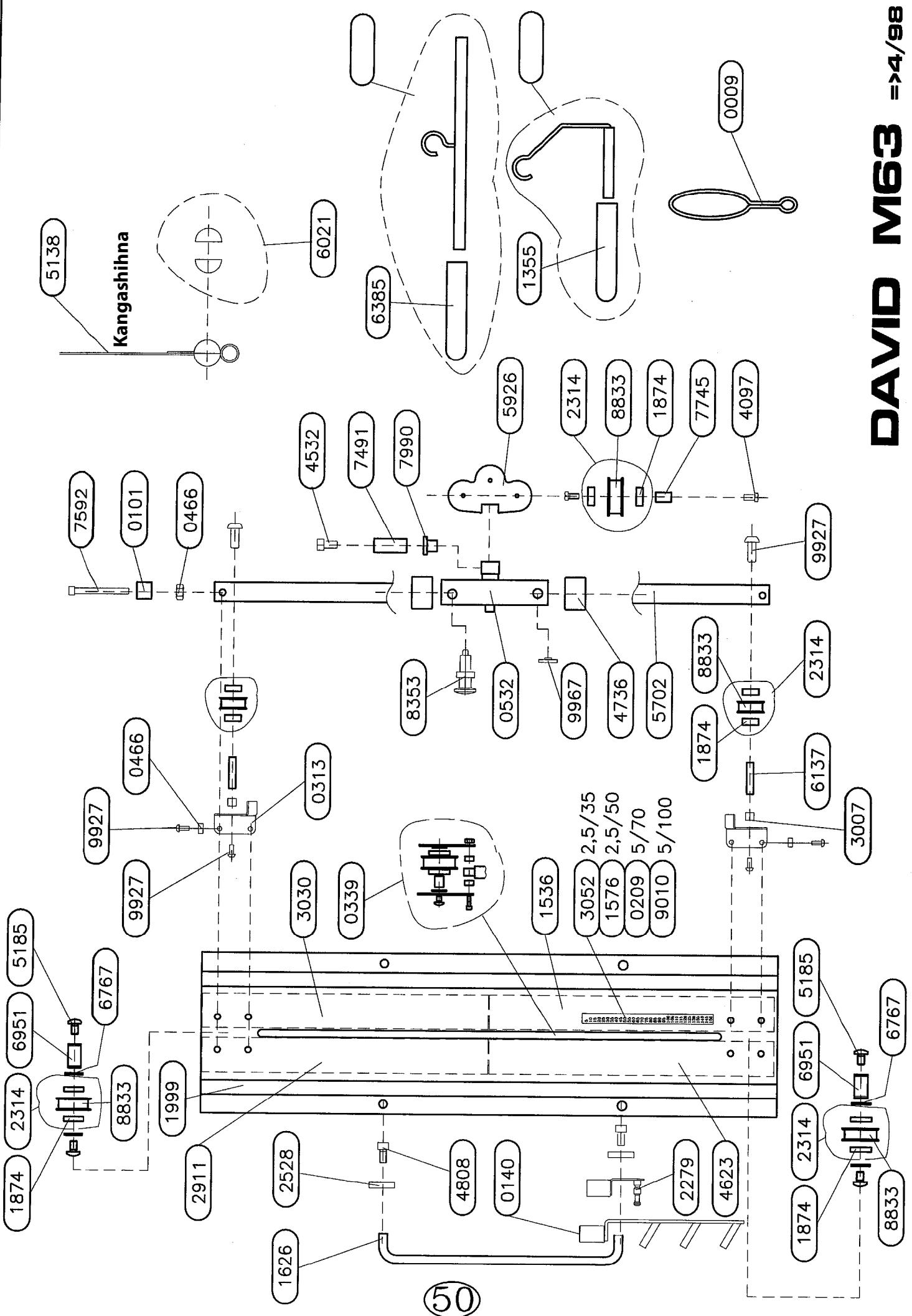


9267

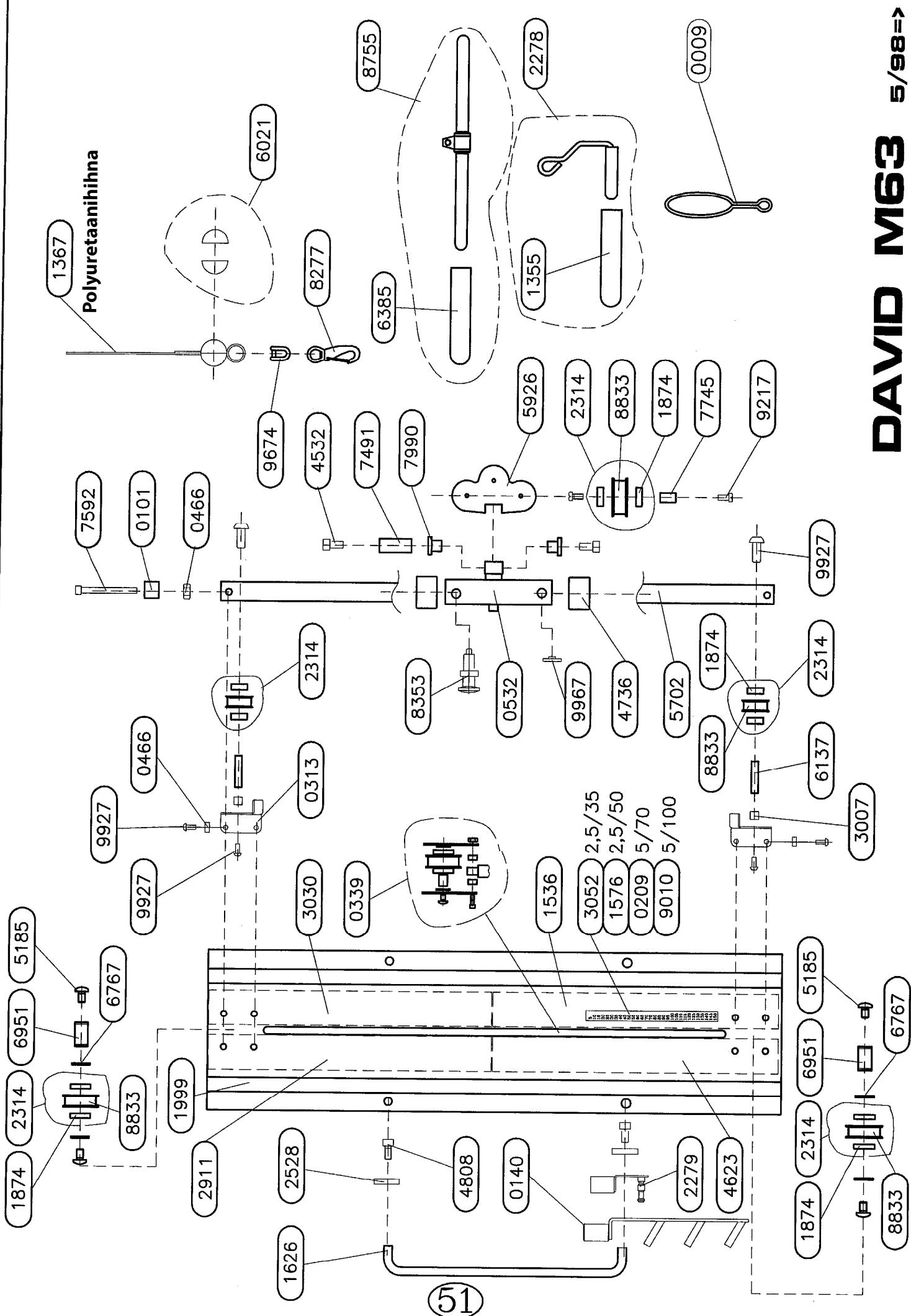
DAVID



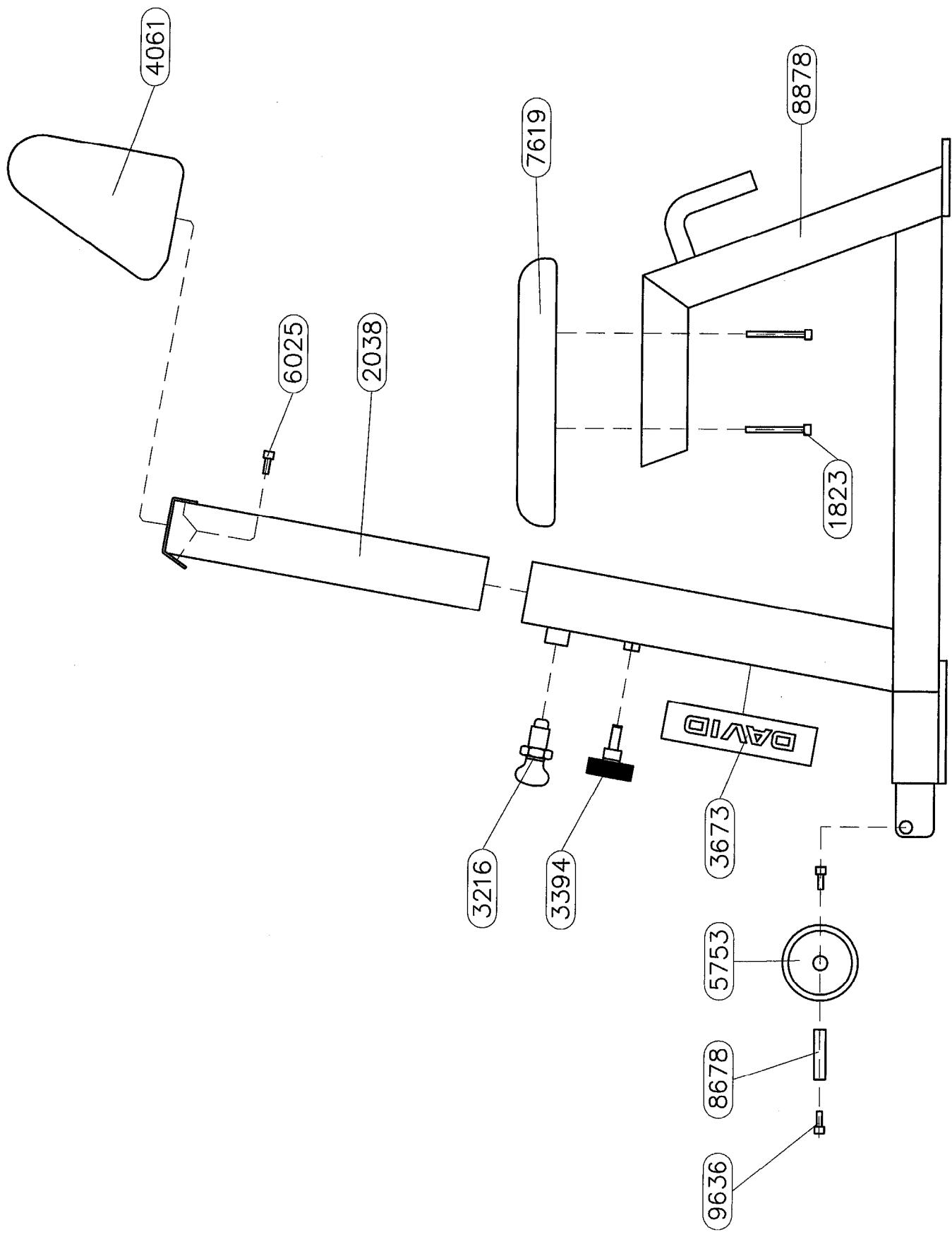
DAVID M63 =>4/98



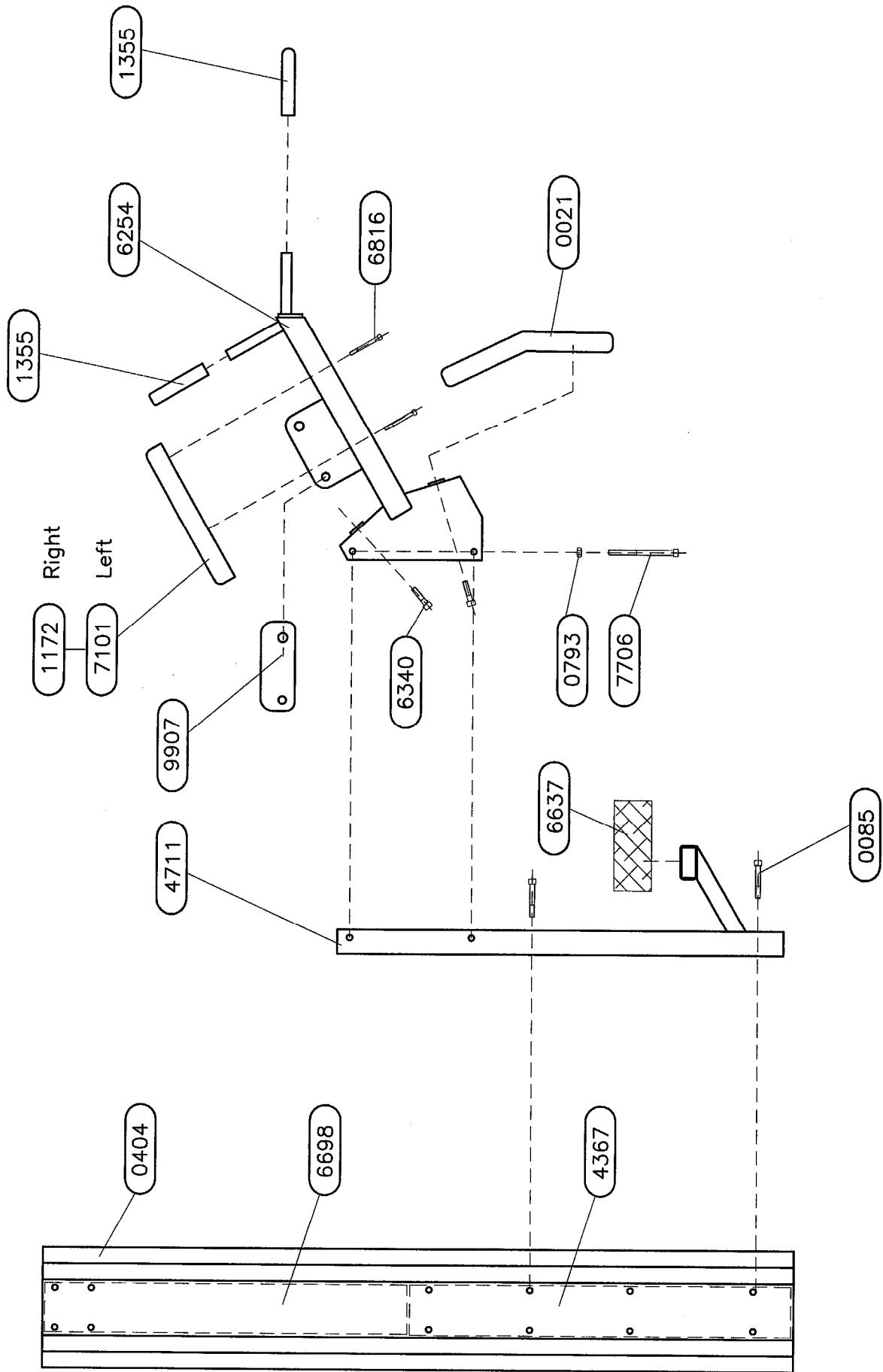
DAVID M63 5/98=>



DAVID M70

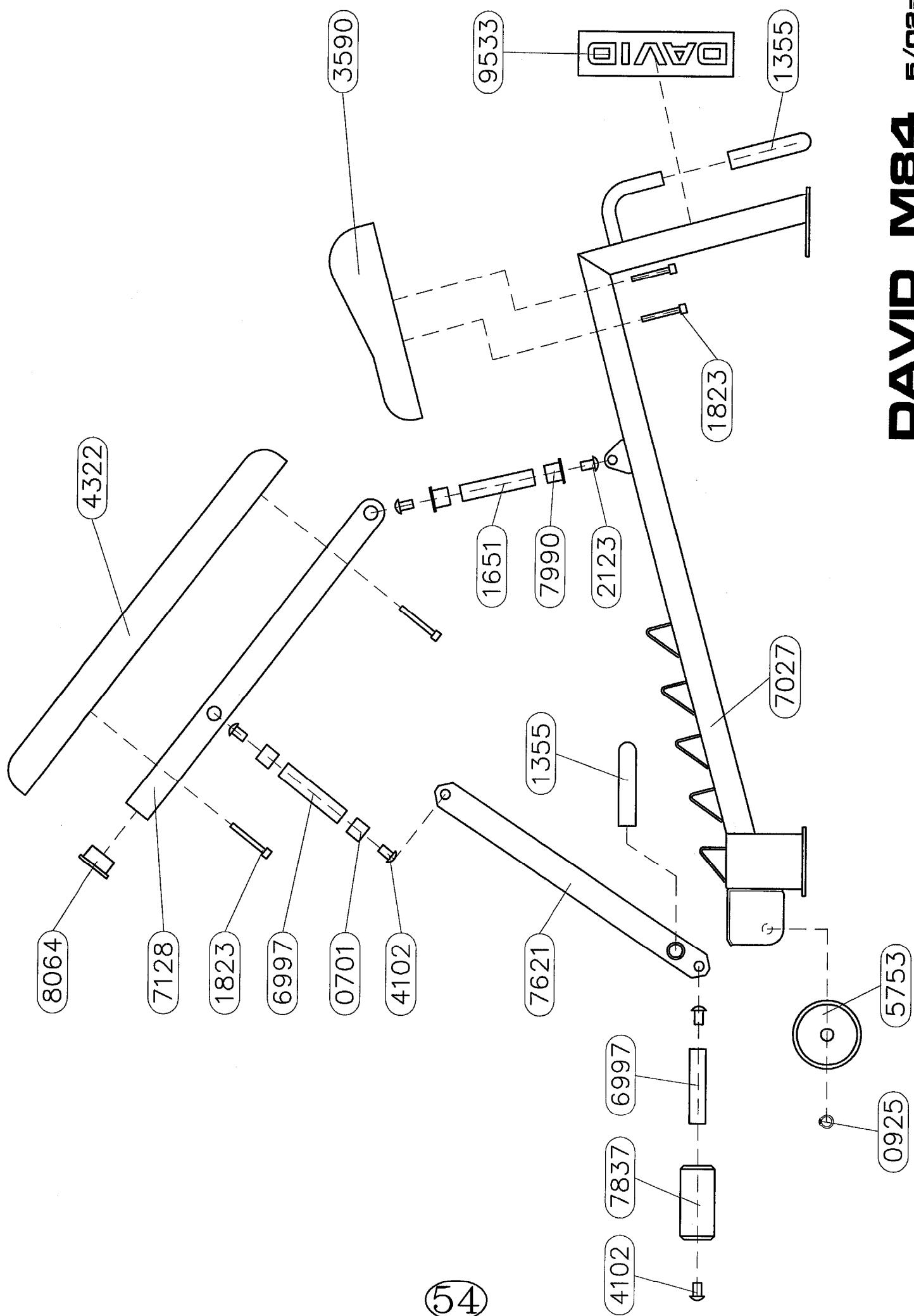


DAVID M81

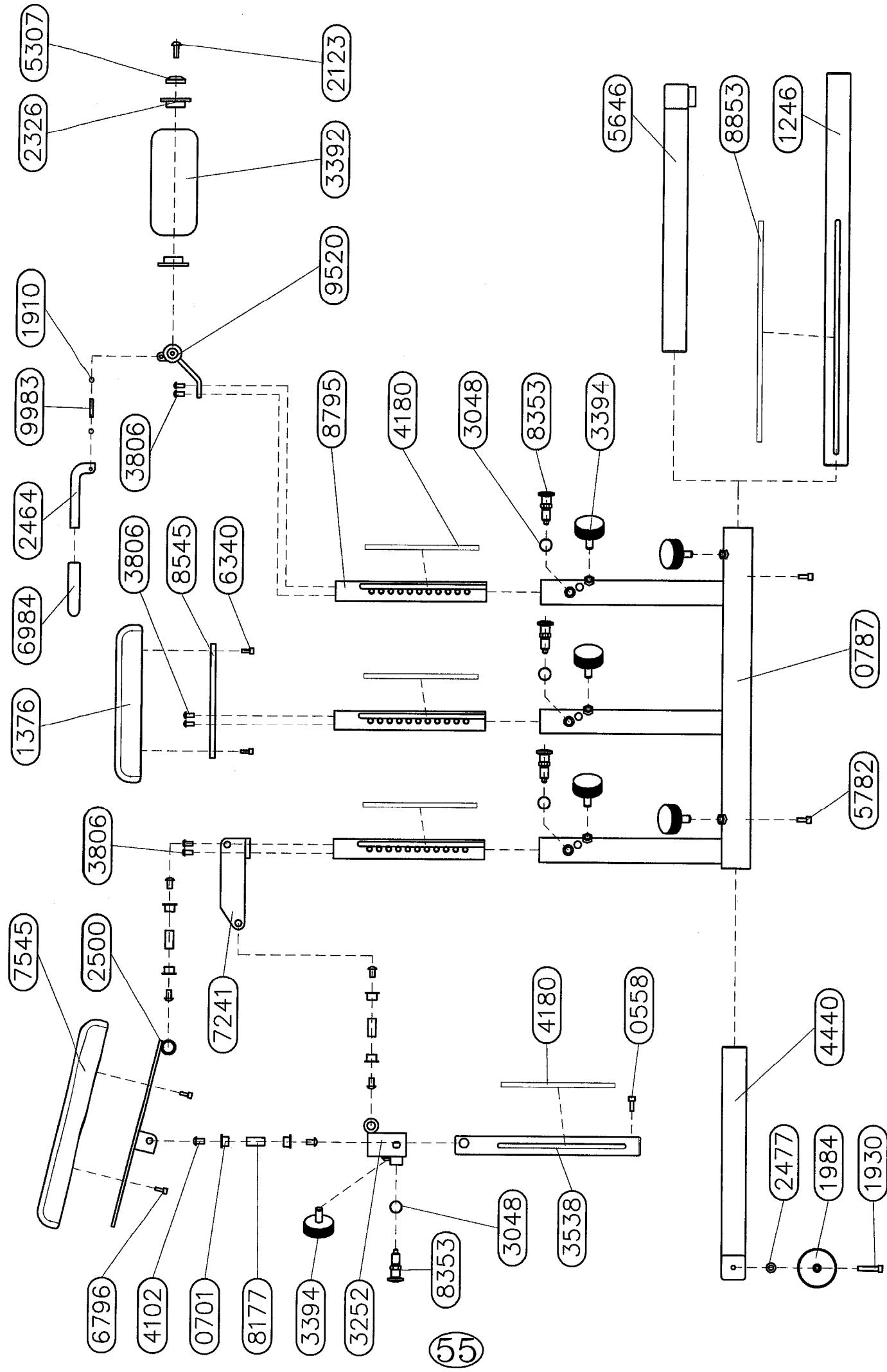


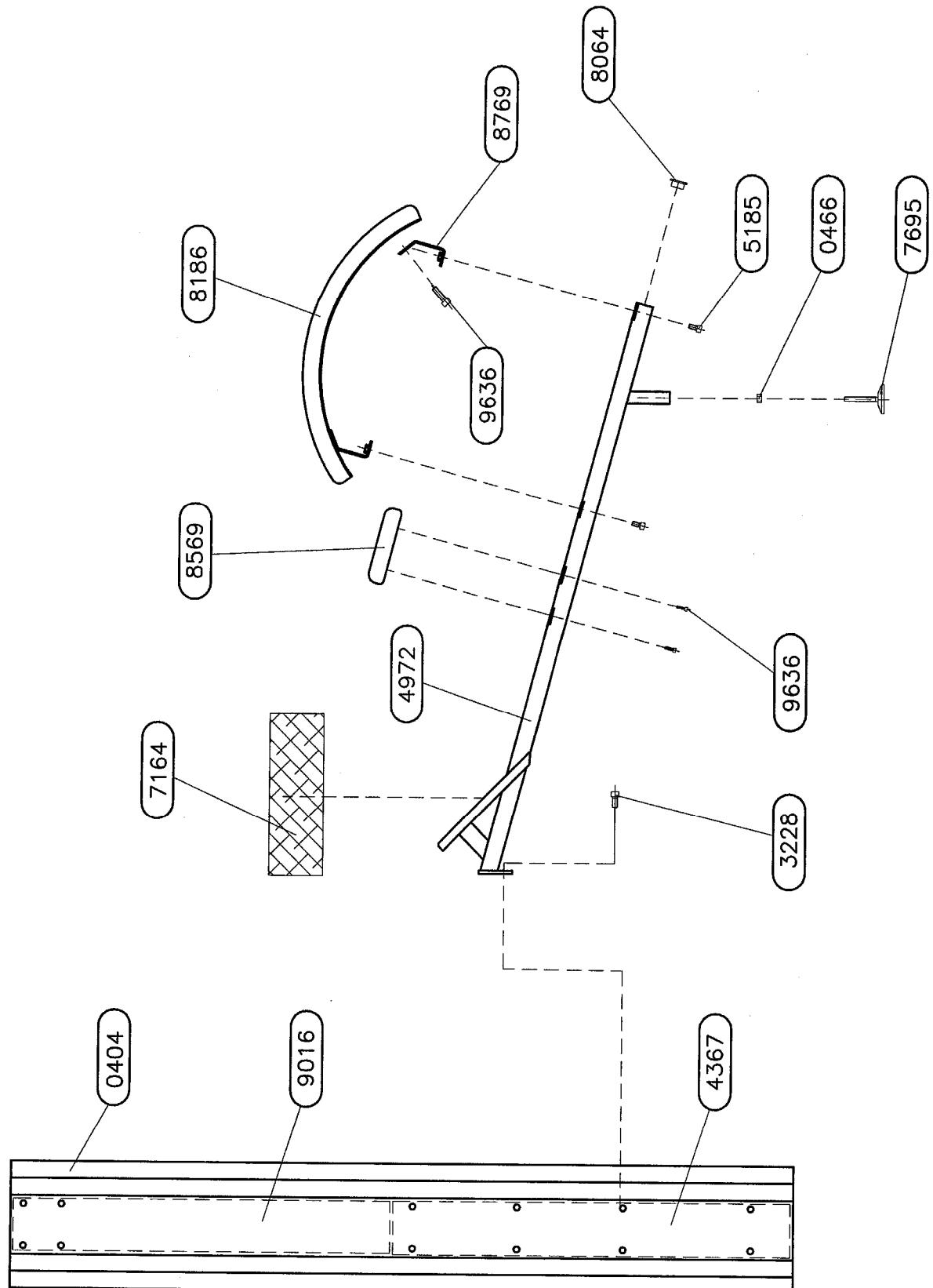
DAVID M84

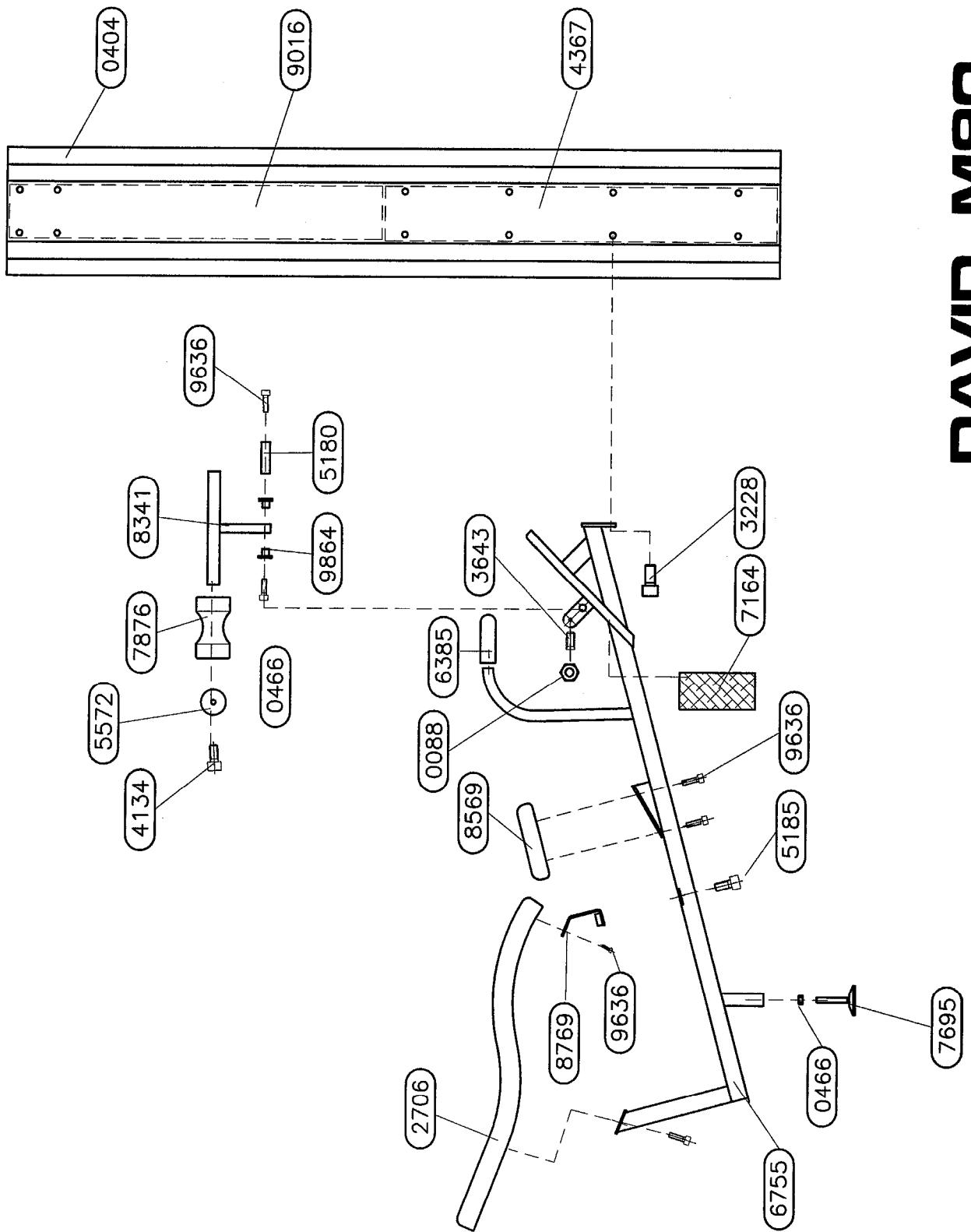
5/02=>



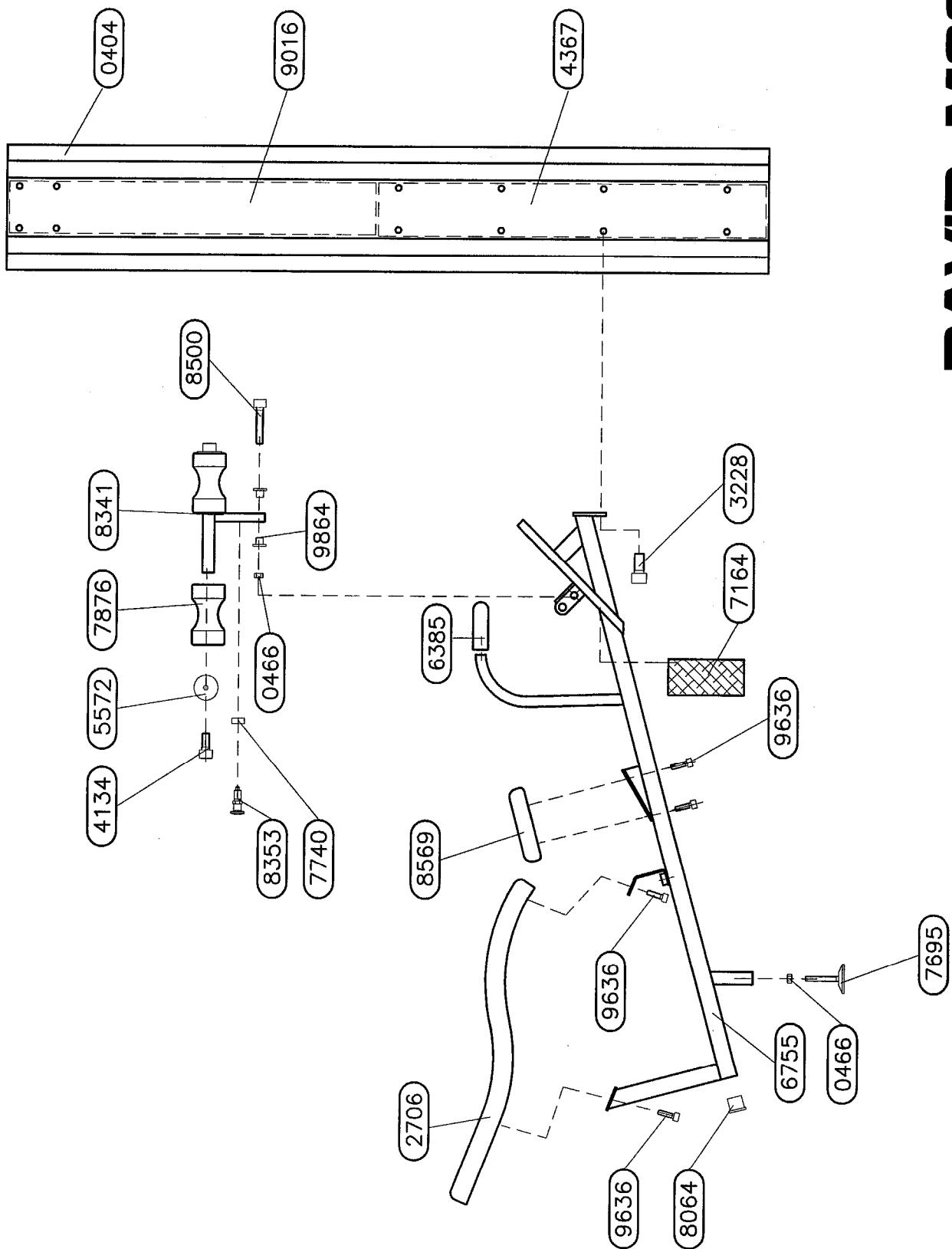
DAVID M85







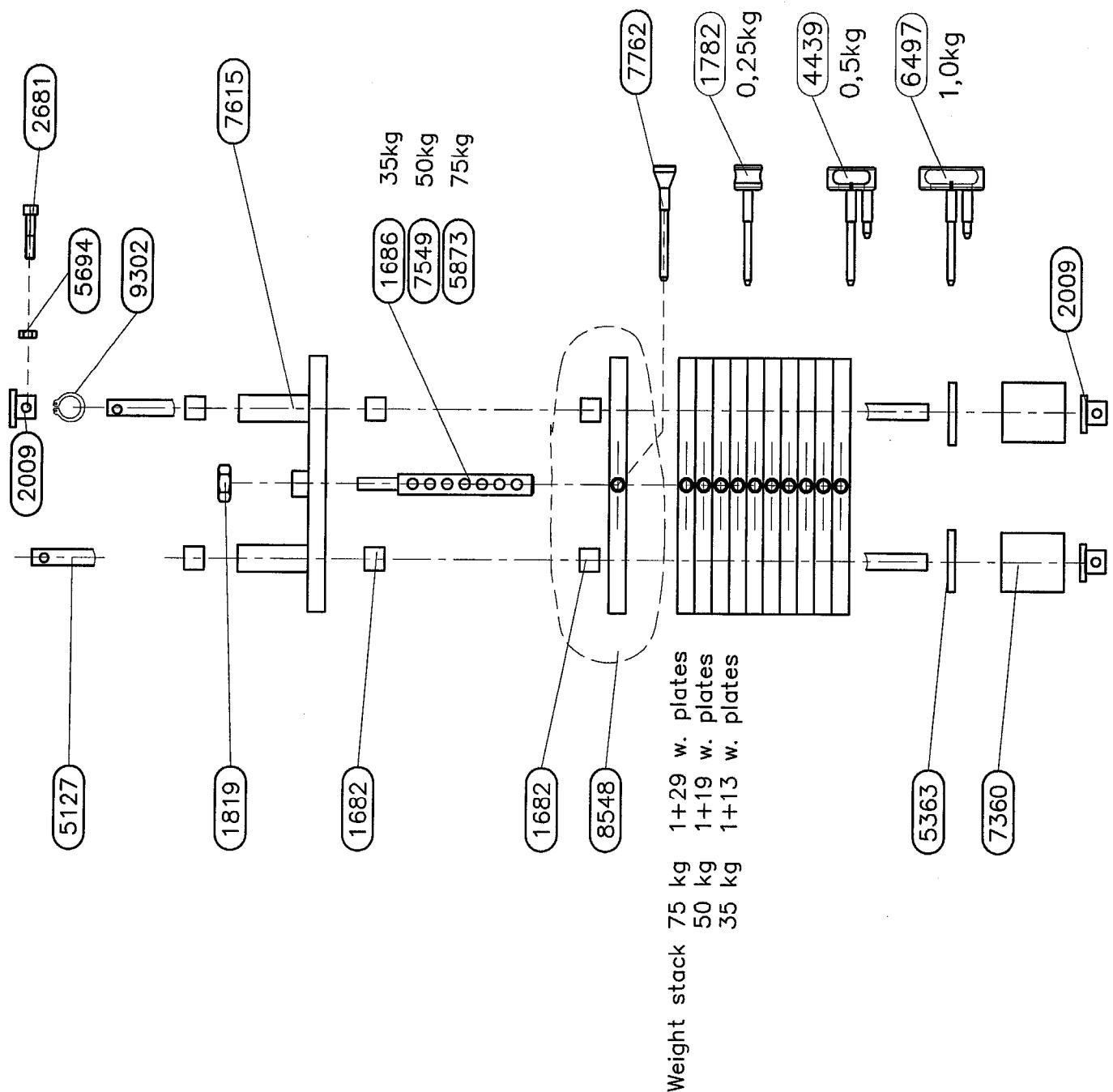
DAVID M90 4/98->



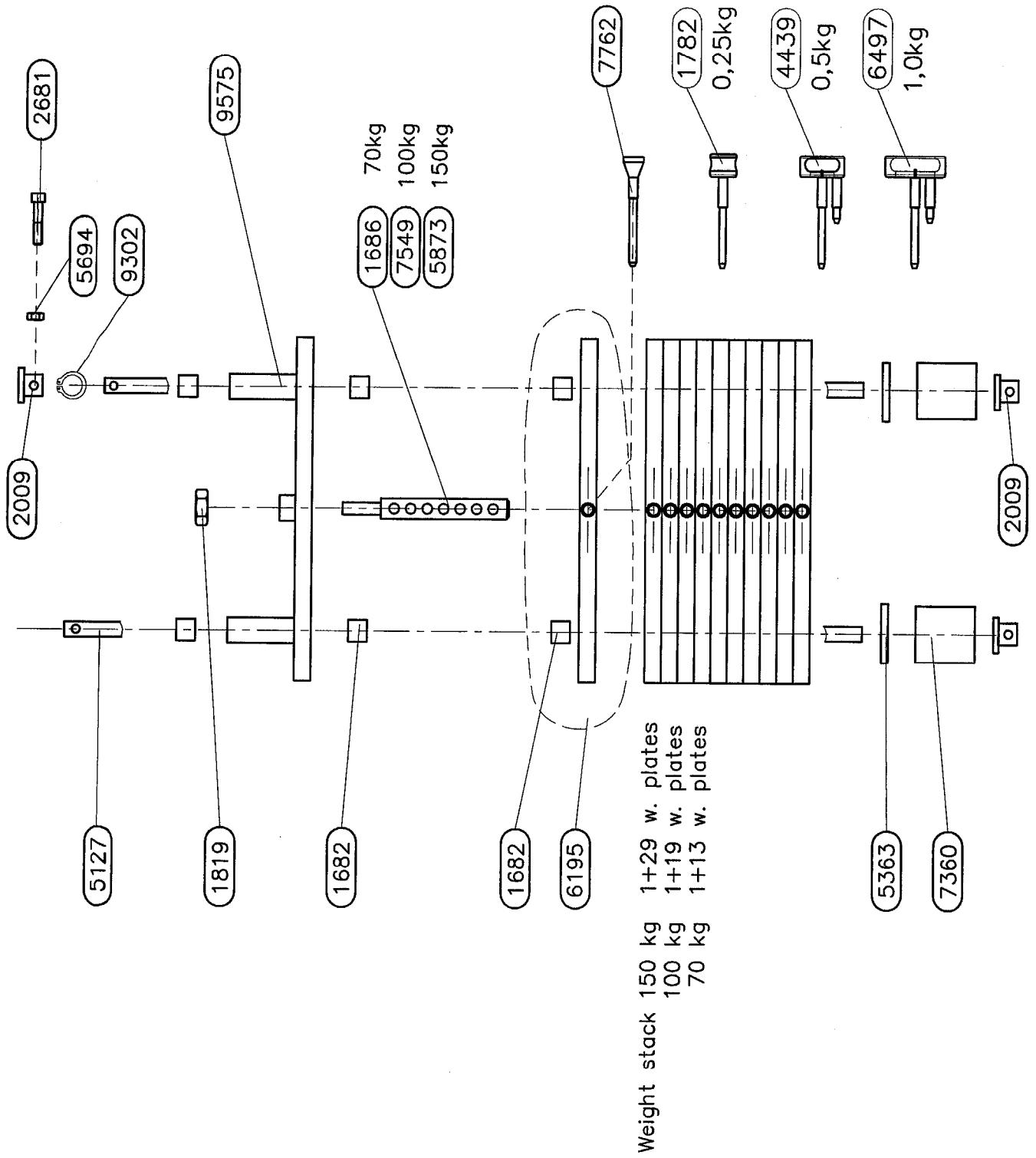
DAVID

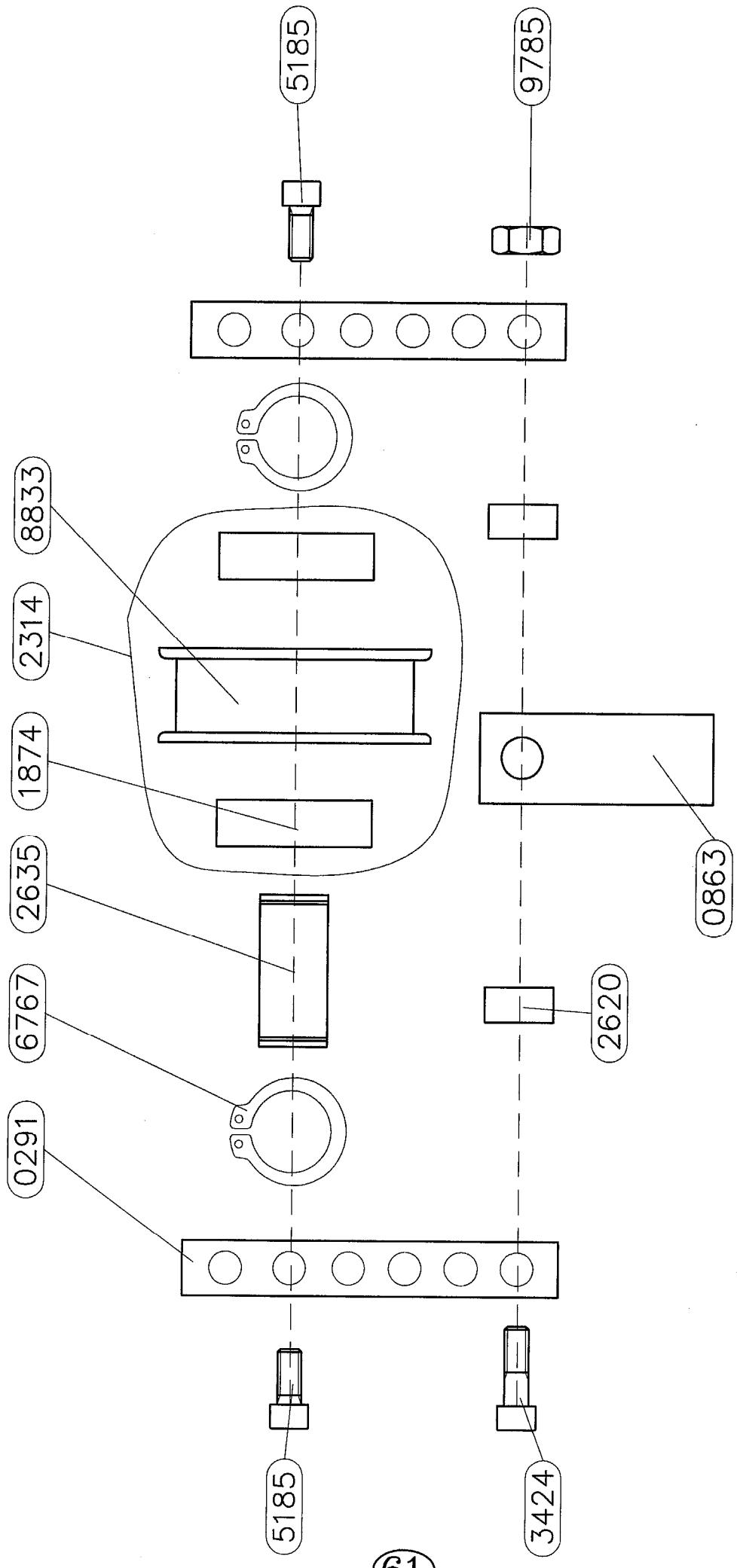
Weight stack assembly

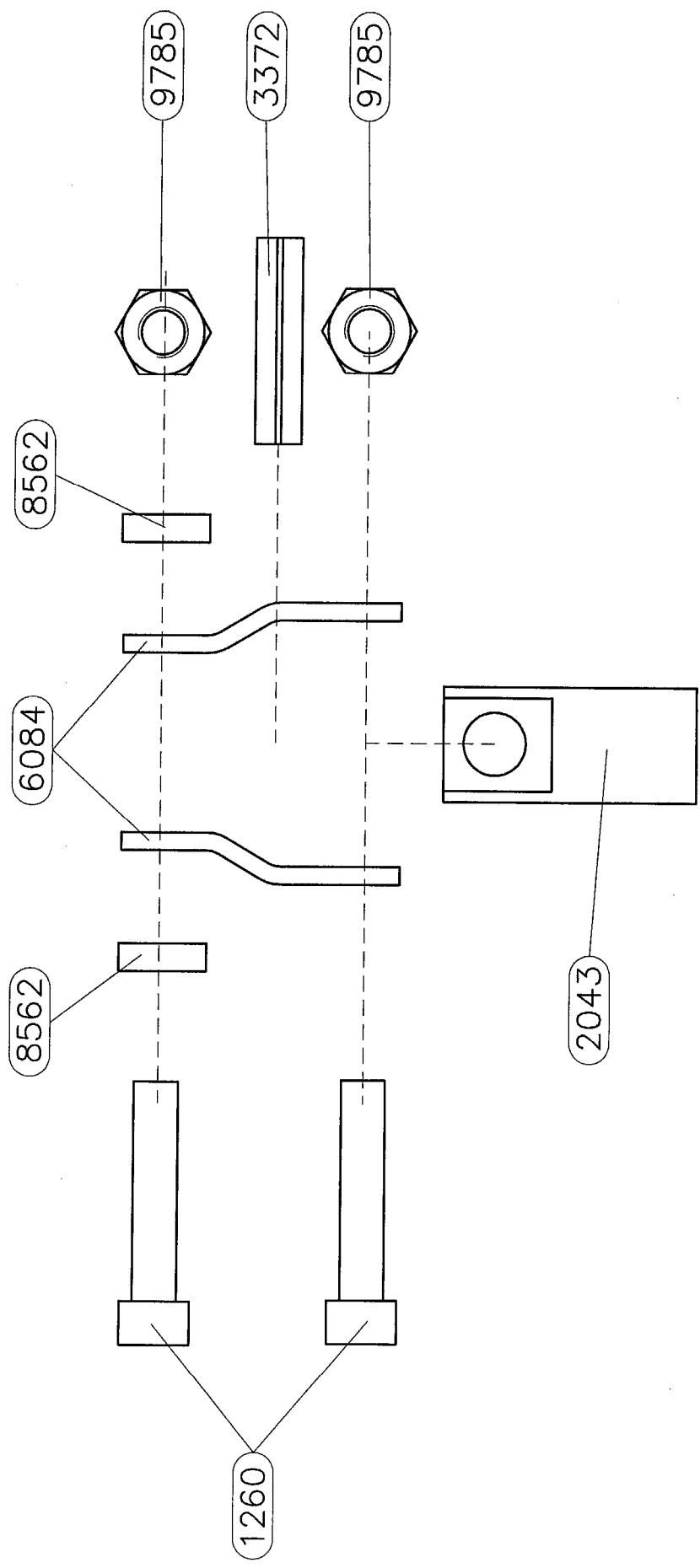
2,5 / 35kg
2,5 / 50kg
2,5 / 75kg

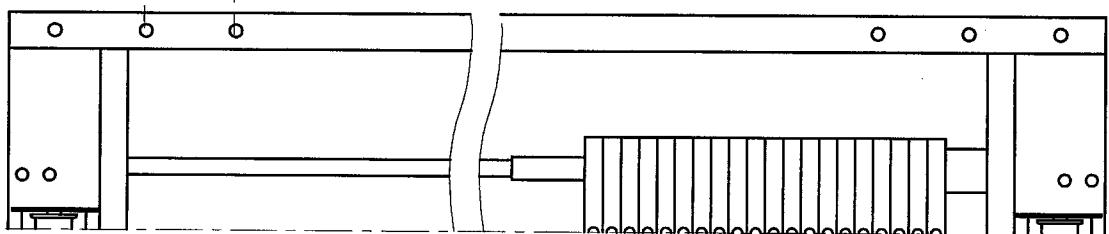
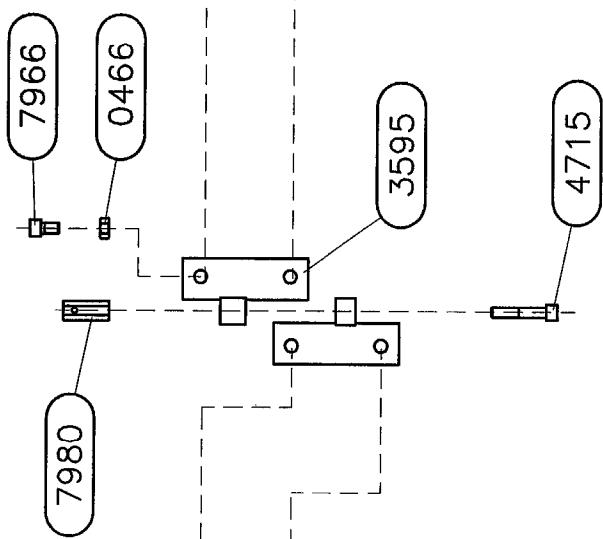
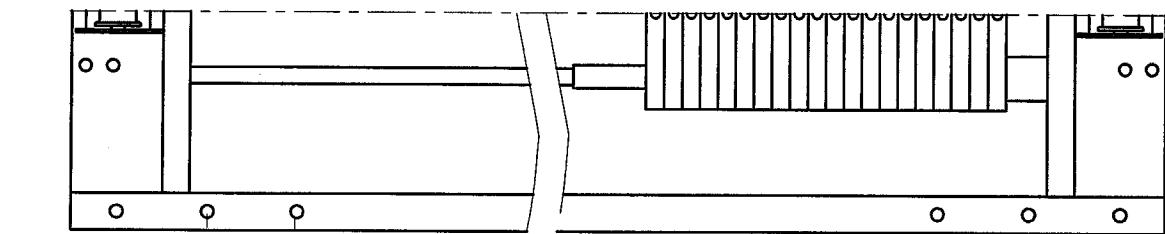
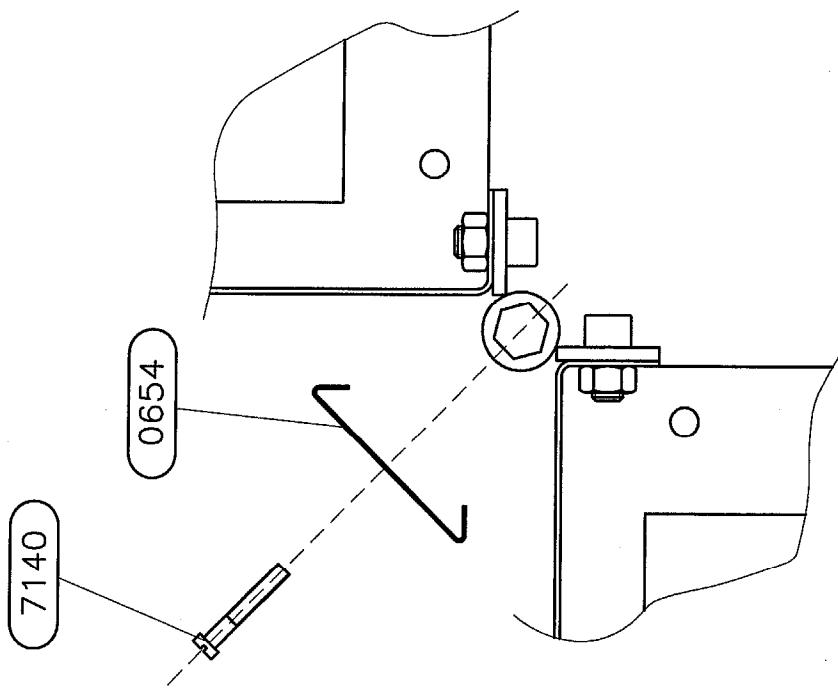


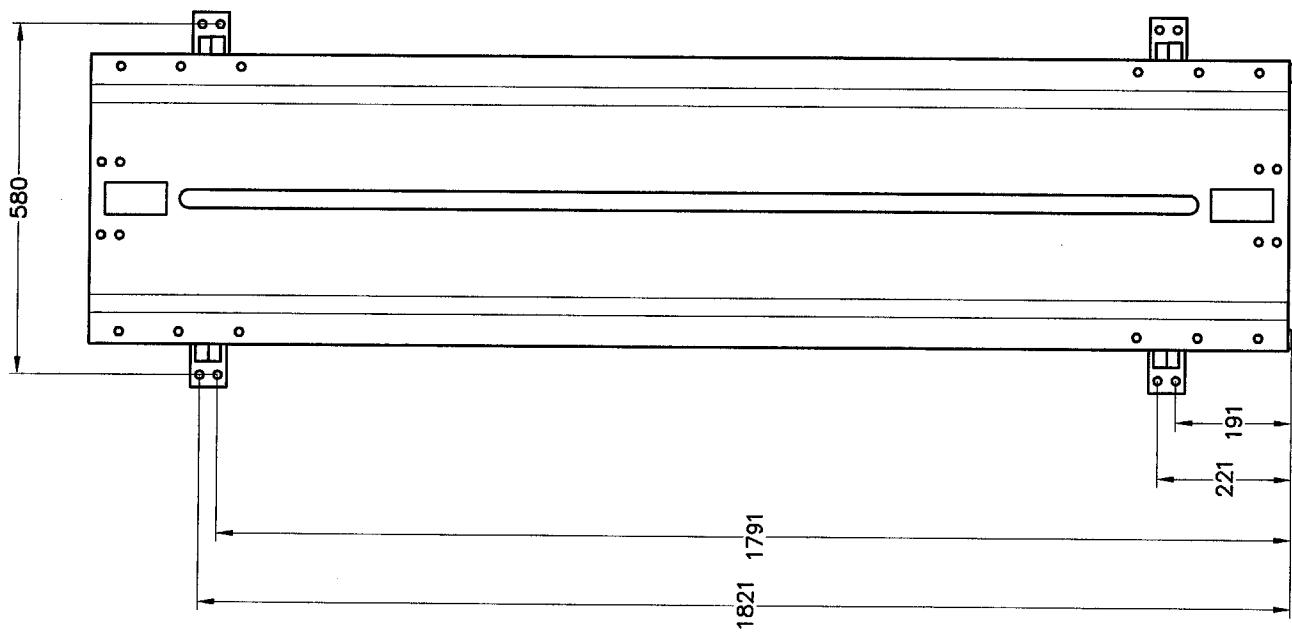
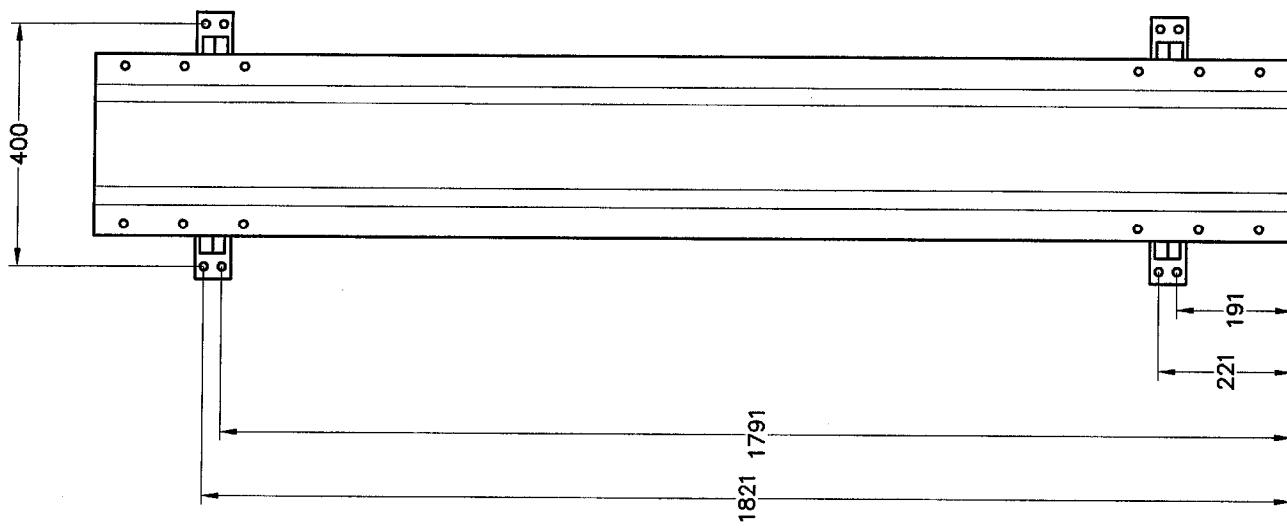
DAVID Weight stack assembly











M-sarjan painopakankihnojen pituudet

Laite	Painopakka	Kangashihnan pituus	Kangashihnan pituus	Polyuretaanihihnan katkaisupituus/hihman leveys
		=> 7/1994	8/1994 - 4/1998	5/1998 =>
M 12 Leg Extension/Flexion	2,5/75	-	-	-
M 12 Leg Extension/Flexion	5/100	-	-	5600 / 25
M 14 Leg Press	2,5/75 and 5/150	3820	3910	4100 / 25
S 14 Leg Press	2,5/75 and 5/150	-	4240	4500 / 25
M 15 Hack-Squat	2,5/75 and 5/150	-	3910	4100 / 25
S 15 Hack-Squat	2,5/75 and 5/150	-	4240	4500 / 25
M 21 Lat Pulldown	5/70	2030	-	-
M 21 Lat Pulldown	2,5/50 and 5/100	1910	2000	2200 / 25
M 22 Leverage Row	5/70	4420	-	-
M 22 Leverage Row	2,5/50 and 5/100	4300	4390	4600 / 25
M 23 Horizontal Row	2,5/50 and 5/100	-	4390	4600 / 25
M 30 Multi Press	5/70	1560	-	-
M 30 Multi Press	2,5/50 and 5/100	1440	7170	7400 / 20
M 30 Multi Press		-	1980 / Counter weight	1980 / Counter weight
M 60 Cross-Over	5/70	5260	-	-
M 60 Cross-Over	5/100	5140	-	-
M 61 High/Low Pulley	2,5/35 and 5/70	5260	3180 and 2080	3440 / 20 and 2340 / 20
M 61 High/Low Pulley	2,5/50 and 5/100	5140	3000 and 2080	3260 / 20 and 2340 / 20
M 62 Multi Function Pulley	2,5 / 5 / 80	-	-	Cable 11000
M 62 Multi Function Pulley	2,5 / 5 / 130	-	-	Cable 10500
M 62 Multi Function Pulley		-	-	Extension cable assembly 2100
M 63 Adjustable Pulley	2,5/35 and 5/70	-	7500 cutting length	7500 / 20
M 63 Adjustable Pulley	2,5/50 and 5/100	-	7500 cutting length	7500 / 20
M 63 Adjustable Pulley	2,5/75	-	7500 cutting length	7500 / 20
M 63 Adjustable Pulley	2,5 / 5 / 75	-	7500 cutting length	7500 / 20
M 63 Adjustable Pulley	2,5 / 5 / 85	-	7500 cutting length	7500 / 20

PU-WEIGHT STACK DRIVE BELT CONVERSION KITS 8/94 – 4/98

Unit	Weight Stack	Up-Date kit Code
M 14 Leg Press	2,5/75 kg and 5/150 kg	0867
M 15 Hack-Squat	2,5/75 kg and 5/150 kg	6244
M 21 Lat Pulldown	2,5/50 kg and 5/100 kg	7419
M 22 Leverage Row	2,5/50 kg and 5/100 kg	5820
M 23 Horizontal Row	2,5/50 kg and 5/100 kg	8196
M 30 Multi Press	2,5/50 kg and 5/100 kg	7073
M 61 High / Low Pulley	2,5/35 kg and 5/70 kg	1952
M 61 High / Low Pulley	2,5/50 kg and 5/100 kg	3367
M 63 Adjustable Pulley	2,5/35 kg and 5/70 kg	5386
M 63 Adjustable Pulley	2,5/50 kg and 5/100 kg	5699

Each up-date kit includes all necessary pulley assemblies, belts, belt attachments, swivel snap hooks and related hardware. M 63 Adjustable Pulley kits also include the stainless steel swivel pulley attachment.

GENERAL INSPECTION

All machines should be inspected on a weekly basis using the following steps:

Loose bolts or nuts – tighten immediately

Loose cable or belt attachment – tighten immediately

Loose pads – fasten immediately by tightening the screws

Missing bolts, nuts or screws – Replace immediately

Badly worn or torn pad – Replace immediately

Loose or torn grip – Replace immediately

Worn or damaged cable – Replace immediately

Worn or damaged belt – Replace immediately

Worn or damaged seat belt or attachment – Replace immediately

Any bearing, pivoting component, adjustment part, movement arm or frame component that is damaged must be replaced immediately. If this is not possible, the machine must be kept out of use until properly repaired.

We strongly recommend using only original David spare parts, in order to ensure the proper function and warranty coverage. We only recommend using authorized David service personnel for repair or up-date installation.

MAINTENANCE

All mechanical exercise devices require certain maintenance in order to assure their optimal function. Frequent cleaning and service protocol ensures trouble free operation and prevents more serious damage to the equipment. Use the following procedure as the basic guideline.

- Cleaning the equipment 2 – 3 times / week will ensure the proper function even in the most demanding conditions. The frame and all plastic parts can be cleaned by using mild soap and a soft cloth. The upholstery is best preserved with a time to time cleaning procedure, where a soft, damp cloth (not wet) is used to wipe off any dirt. Also normal dry cleaning foam can be used if necessary.
- All machines equipped with a weight stack do require frequent cleaning of the moving parts and components. For best results, the weight stack should be elevated so that the guide rods can be cleaned thoroughly. CAUTION! When elevating single weight plates or the entire stack, they must be secured in such a way, that they can not move or fall down, since this might cause an injury to anyone close to the weight stack. The guide rods should be cleaned with a degreaser and they can be lubricated with neutral silicon lubricant. Never use grease or oil to lubricate the guide rods, since this will attract dust and dirt thus restraining the proper function. In severe cases of built-up grease and dirt, the guide rods and all weight plates should be removed. Then each weight plate bushing and the guide rods must be cleaned properly.
- All machines equipped with linear bearings must be frequently cleaned. The guide rods of linear bearings should be cleaned with soft, damp cloth. A degreaser can be used when necessary. Do not oil or grease the guide rods.
- In order to maintain the maximum security among the users of the equipment, do the following. Check out the machines every 3 months to ensure that all the bolts and nuts in the frame, lever arms, pivot points, upholstery fastenings etc. are securely tighten. Should there ever be loose nuts, bolts or screws immediately tighten them according to the given specifications or installation instructions.
- The upholstery material must also be checked. Any torn naugahyde can damage clothing or even skin and must be replaced immediately.
- Finally, the grips on the movement arms, levers etc. should be checked for possible wear. These should also be replaced immediately when torn, since the grip security will be affected by worn or loose gripping material.
- In case a machine can not be properly fixed immediately, keep it out of use until repaired.
- By following the above mentioned simple steps the proper function and trouble free operation of any David machine will be ensured.