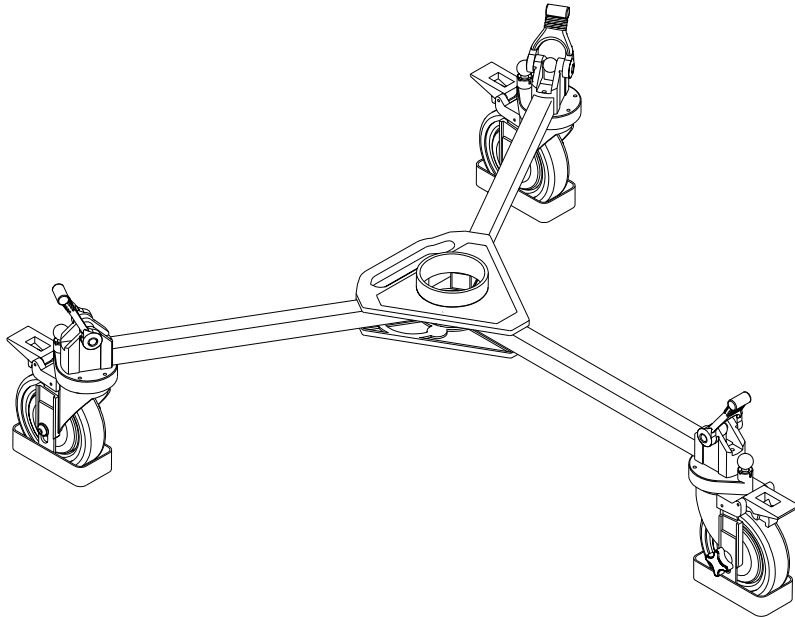


Maintenance Manual

Spreaders, Dollies and Skids

Spares & Repairs



Spreaders, Dollies and Skids

SPARES & REPAIRS

PUBLICATION PART No. 3313-9

ISSUE 1

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Foreword

[Part 1](#) of this manual provides detailed spare parts information for Vinten spreaders, dollies and skids. The various products are listed in Part Number order. A list of consumables, such as adhesives and lubricants, appears on [page 6](#).

To order spare parts or to obtain further information, application should be made to Vinten Broadcast Limited or your local distributor.

[Part 2](#) contains repair procedures.

The information in this manual previously formed part of 'Tripods and Associated Equipment - Spares and Repairs (3392-9). To make the manual more manageable, it has been sub-divided and renumbered as follows:

Spreaders, Dollies and Skids (this manual) - Publication Part No. 3313-9

Vision Torque-Safe Tripods - Publication Part No. 3380-9

Vision Toggle-Clamp Tripods - Publication Part No. 3392-9

Heavy-Duty Tripod Range - Publication Part No. 3366-9

NOTE: Information contained in this document is subject to change.
Vinten Broadcast Ltd reserves the right, without notice, to make changes in equipment design or performance as progress in engineering, manufacturing or technology may warrant.



Notes to readers

This is the on-line version of 'Spreaders, Dollies and Skids - Spares and Repairs' (3313-9). Readers should be aware that the pagination differs between on-line and printed versions.

Navigation

Clicking the mouse on any [blue text](#) will move you around the document. For example, if you click on one of the blue call-outs on an exploded drawing, you will be taken to the appropriate line in the relevant parts list.

[Contents](#) Clicking here will take you to the Contents Page.



Clicking here will take you to the first page.



Clicking here will take you to the previous page.



Clicking here will take you to the next page.



Click here to go back to the previous view.

Alternatively, you may use the Acrobat Reader navigation buttons.

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Adhesives and Lubricants

1 Adhesives and lubricants are indicated on each illustration by letter. These letters are standard throughout the manual and refer to the table below.

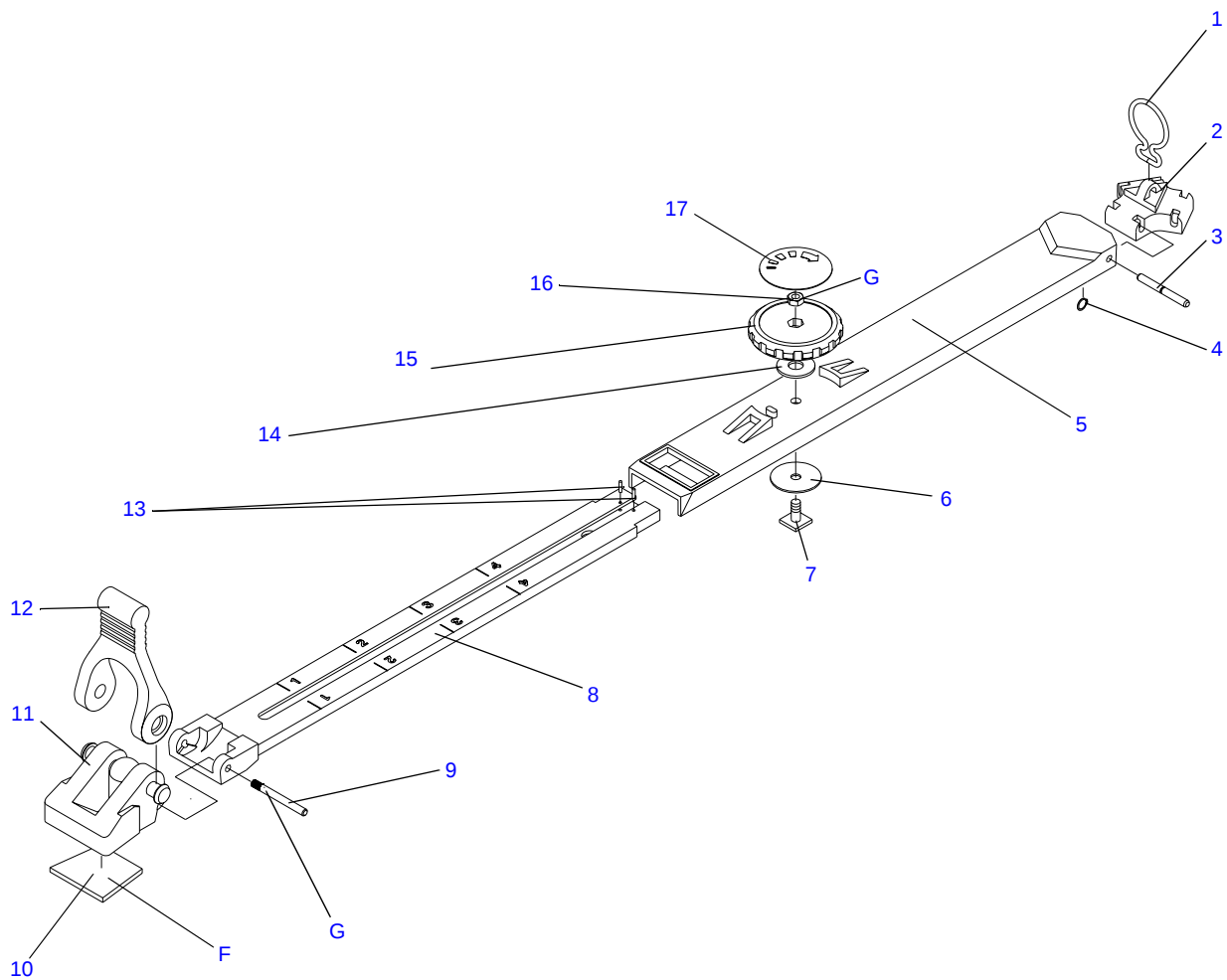
NOTE: Not all the adhesives and lubricants listed below are required for the equipment in this manual.
Adhesives and lubricants are not supplied by Vinten Broadcast Ltd and should be obtained under local arrangements.

LETTER	ITEM
A	Adhesive, Loctite 221 Studlock
B	Adhesive, Loctite 242E Nutlock
C	Adhesive, Loctite 270 Studlock
D	Adhesive, Loctite 380
E	Adhesive, Loctite 406
F	Adhesive, Loctite 409 Superglue Extra
G	Adhesive, Loctite 415 Superbonder
H	Adhesive, Loctite 601 Retainer
J	Adhesive, Loctite 638
K	Adhesive, Permabond Epoxy E31
L	Adhesive, Permabond E38
M	Adhesive, Silcoset 153
N	Grease, Molybdenum Disulphide GP50
P	Grease, white bearing
Q	Grease, Silicone, MS4
R	Adhesive, Permabond Epoxy E32



Part 1 - Illustrated Parts Lists

Floor Spreader - for Aluminium Tripods (3313-3)

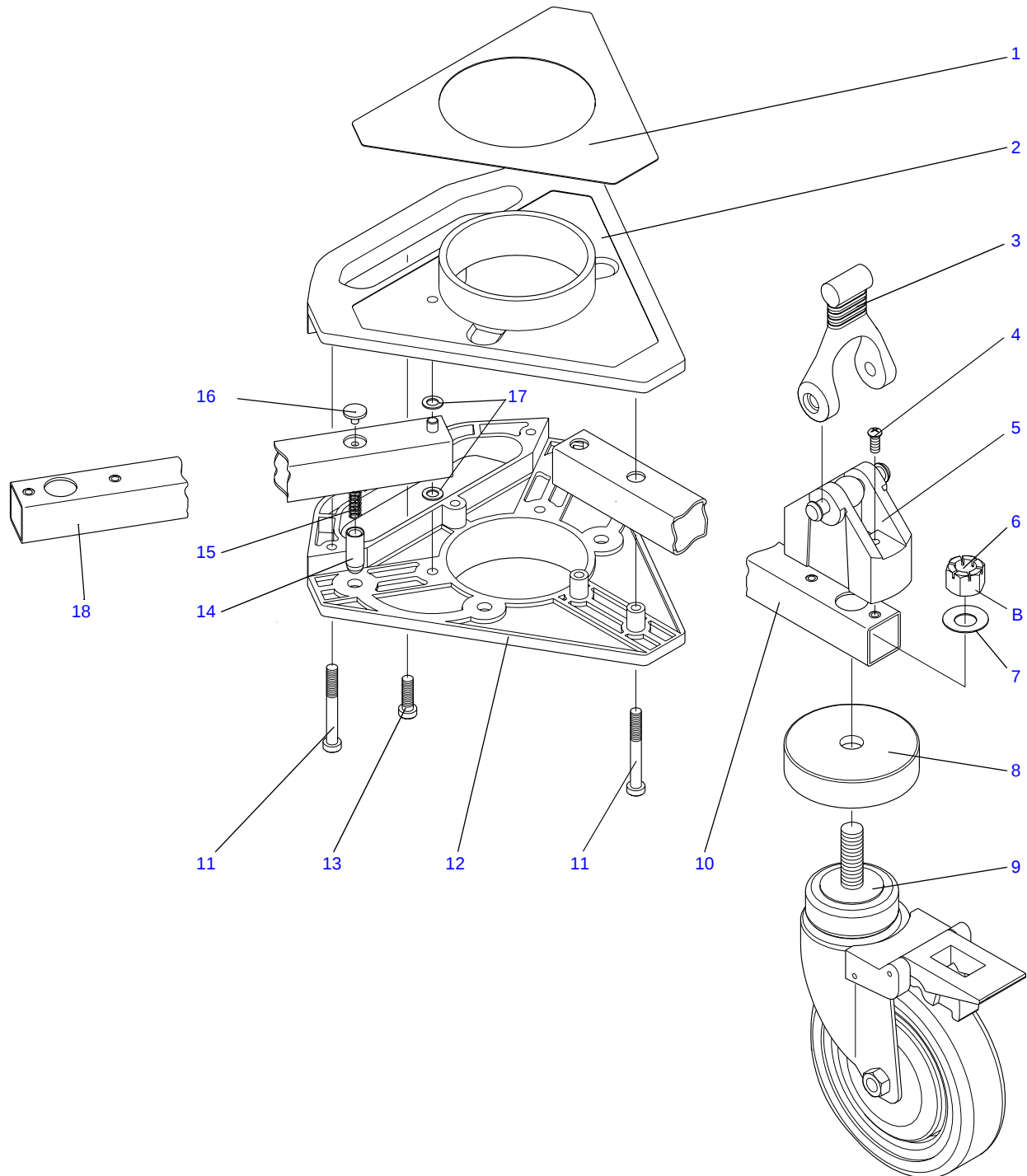


See [page 6](#) for letter key to adhesives and lubricants

Floor Spreader - for Aluminium Tripods (3313-3)

Item No.	Part No.	Item	Qty
1	3313-219	Split ring	1
2	3313-201	Centre moulding	1
3	3313-211	Hinge pin	3
4	M701-054	'E'-Clip, crescent ring ("e"-clip variation), 4 mm shaft dia. x 0.40 mm thick	3
5	3394-202	Leg moulding inner (female)	3
6	3313-214	Friction pad	3
7	3313-213	Clamp stud	3
8	3313-203	Leg moulding outer (male)	3
	3313-901SP	Foot assembly (spares), comprising one each of:	
9	3313-218	Foot hinge pin	3
10	3313-212	Foot pad	3
11	3313-215	Foot support moulding	3
12	3313-216	Strap	3
13	L803-002	Pin, mills, 1/16 in. dia. x 1/4 in. long, gp2	6
14	M600-020	Washer, form "c", large, 20.5/21 mm ID x 8.4/8.7 mm OD x 1.4/1.8 mm thick	3
15	3313-204	Clamp knob moulding	3
16	M500-081	Nut, M5, standard (hex), full	3
17	3313-217	Clamp label	3

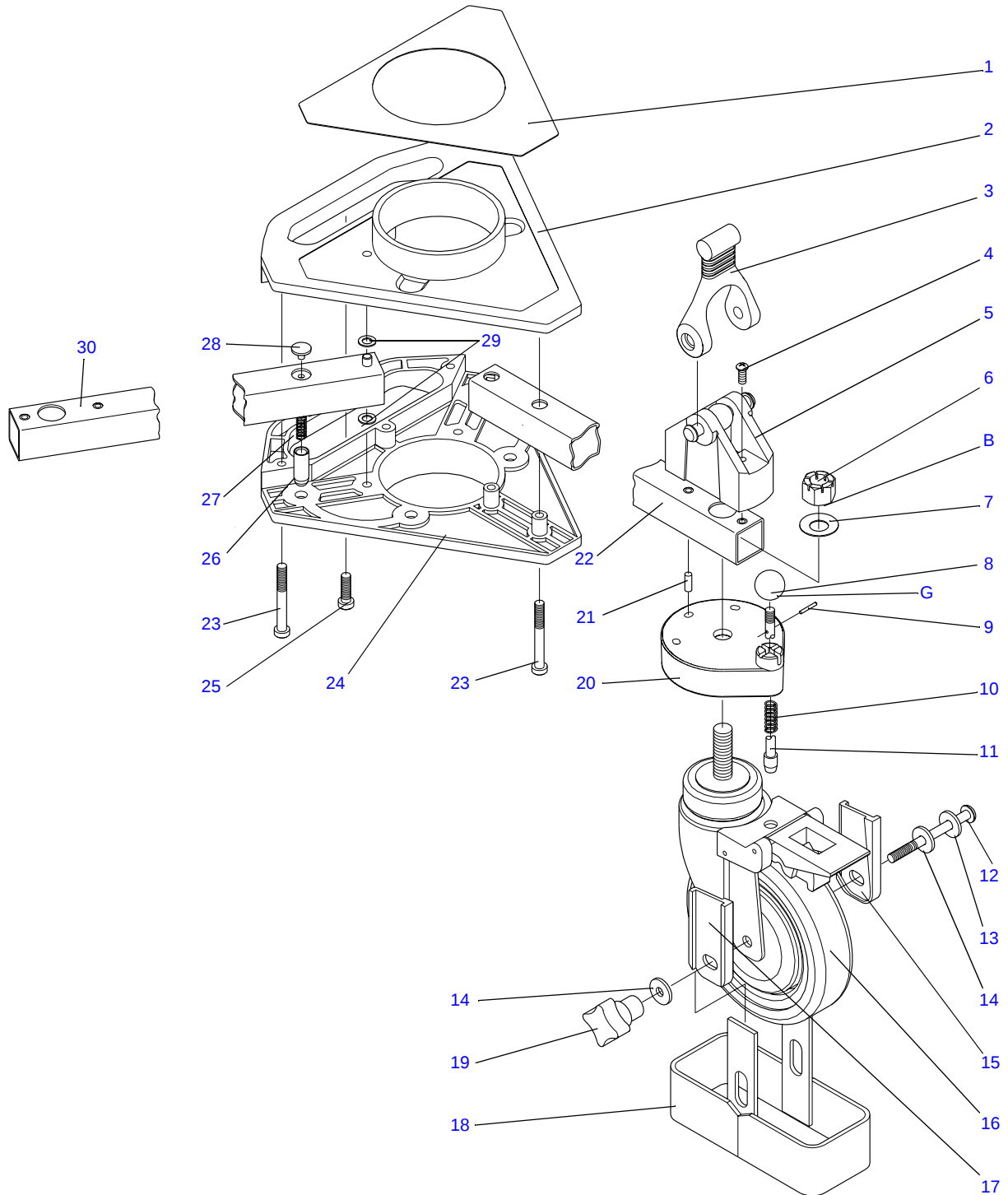
ENG (OB) Skid (3319-3B)



ENG (OB) Skid (3319-3B)

Item No.	Part No.	Item	Qty
1	3423-22	Serial number label (lightweight skid)	1
2	3319-206	Centre casting upper	1
3	3313-216	Strap	3
4	M005-004	Screw, pan head, pozidrive, M4 x 10 mm long	6
5	3319-201	Foot support	3
6	M500-134	Nut, M12, slotted, full	3
7	3319-215	Washer	3
8	3319-214	Wheel cover	3
9	3511-13	Castor assembly (5 in. diameter cup and cone)	3
10	3319-12	Leg tube assembly (fixed)	1
11	M006-738	Screw, low-profile, cap head, socket, M5 x 25 mm long	5
12	3319-207	Centre casting lower	1
13	M006-735	Screw, low-profile, cap head, socket, M5 x 12 mm long	1
14	3319-209	Leg tube lock plunger	2
15	J532-111	Spring, compression, 1-1/4 in. free length, 1/4 in. hole dia., 8.5 lbf/in. rate	2
16	3319-210	Leg tube pad	2
17	L605-009	Washer, nylon spacer, 0.256 in. ID x 0.551 in. OD x 0.039 in. thick	4
18	3319-11	Leg tube assembly (adjustable)	2

ENG (Studio) Skid (3319-3C)



See [page 6](#) for letter key to adhesives and lubricants



ENG (Studio) Skid (3319-3C)

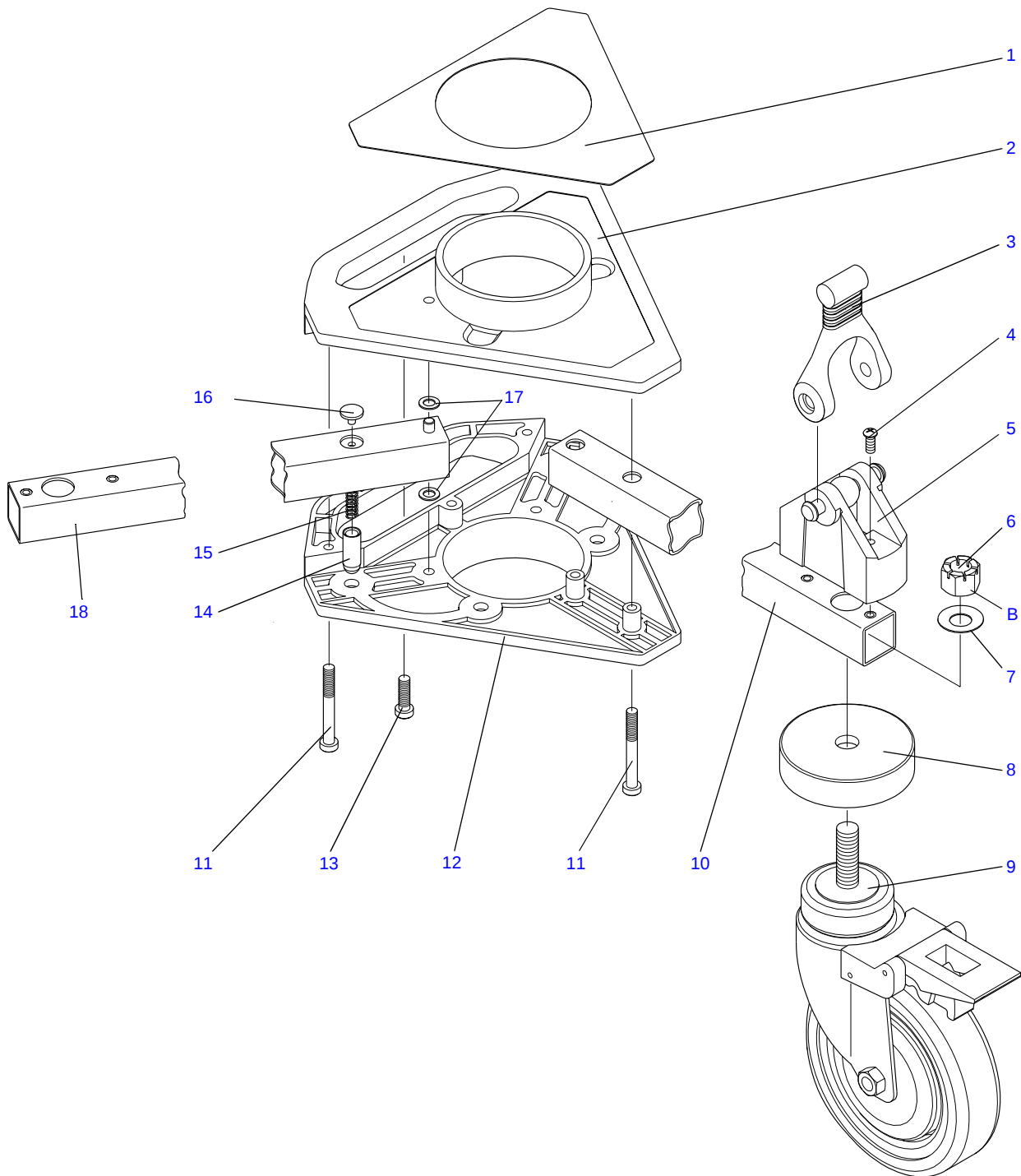
Item No.	Part No.	Item	Qty
1	3423-22	Serial number label (lightweight skid)	1
2	3319-206	Centre casting upper	1
3	3313-216	Strap	3
4	M005-004	Screw, pan head, pozidrive, M4 x 10 mm long	6
5	3319-201	Foot support	3
6	M500-134	Nut, M12, slotted, full	3
7	3319-215	Washer	3
8	C510-119	Knob, 3/4 in. dia, red	1
NI	C510-056	Knob, 3/4 in. dia, black	2
9	M806-036	Pin, coiled-spring, 2 mm dia. x 14 mm long, mdp	3
10	J532-029	Spring, compression, 1 in. free length, 5/16 in. OD, 3.5 lbf/in. rate	3
11	3319-211	Wheel lock plunger	3
12	M008-514	Screw, button head, socket, M8 x 65 mm long	3
13	L600-030	Washer, shakeproof, internal, 5/16 in.	3
14	L602-122	Washer, plain, small, heavy, 3/8 in.	6
	3319-901SP	Castor/cable guard guides (bonding) assembly, comprising	3
15	3319-220	Cable guard mounting bracket left hand.	1
16	3319-212	Castor	1
17	3319-221	Cable guard mounting bracket right hand	1
18	3319-16	Cable guard spot-weld assembly	3
19	C510-063		3
20	3319-202	Wheel lock housing	3
21	M801-004	Pin, dowel, 4 mm dia. x 12 mm long	3
22	3319-12	Leg tube assembly (fixed)	1
23	M006-738	Screw, low-profile, cap head, socket, M5 x 25 mm long	5
24	3319-207	Centre casting lower	1
25	M006-735	Screw, low-profile, cap head, socket, M5 x 12 mm long	1
26	3319-209	Leg tube lock plunger	2
27	J532-111	Spring, compression, 1-1/4 in. free length, 1/4 in. hole dia., 8.5 lbf/in. rate	2
28	3319-210	Leg tube pad	2



ENG (Studio) Skid (3319-3C) (Cont)

Item No.	Part No.	Item	Qty
29	L605-009	Washer, nylon spacer, 0.256 in. ID x 0.551 in. OD x 0.039 in. thick	4
30	3319-11	Leg tube assembly (adjustable)	2

ENG (OB) Skid (Small) (3319-3ST)



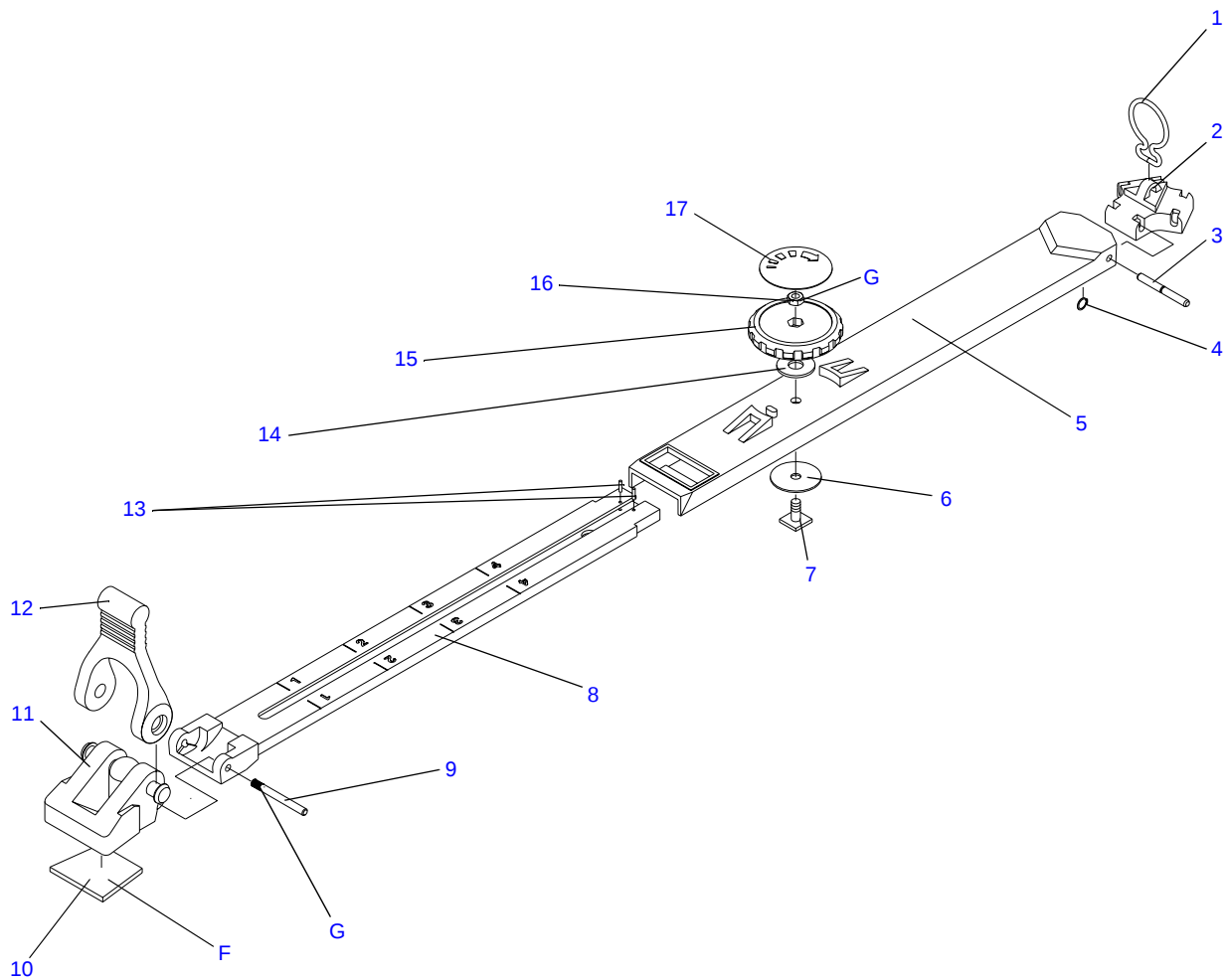
See [page 6](#) for letter key to adhesives and lubricants



ENG (OB) Skid (Small) (3319-3ST)

Item No.	Part No.	Item	Qty
1	3423-22	Serial number label (lightweight skid)	1
2	3319-206	Centre casting upper	1
3	3313-216	Strap	3
4	M005-004	Screw, pan head, pozidrive, M4 x 10 mm long	6
5	3319-201	Foot support	3
6	M500-134	Nut, M12, slotted, full	3
7	3319-215	Washer	3
8	3319-214	Wheel cover	3
9	3511-13	Castor assembly (5 in. diameter cup and cone)	3
10	3319-18	Leg tube assembly (fixed) short	1
11	M006-738	Screw, low-profile, cap head, socket, M5 x 25 mm long	5
12	3319-207	Centre casting lower	1
13	M006-735	Screw, low-profile, cap head, socket, M5 x 12 mm long	1
14	3319-209	Leg tube lock plunger	2
15	J532-111	Spring, compression, 1-1/4 in. free length, 1/4 in. hole dia., 8.5 lbf/in. rate	2
16	3319-210	Leg tube pad	2
17	L605-009	Washer, nylon spacer, 0.256 in. ID x 0.551 in. OD x 0.039 in. thick	4
18	3319-17	Leg tube assembly (adjustable) short	2

Floor Spreader - for Carbon Fibre Tripods (3363-3)

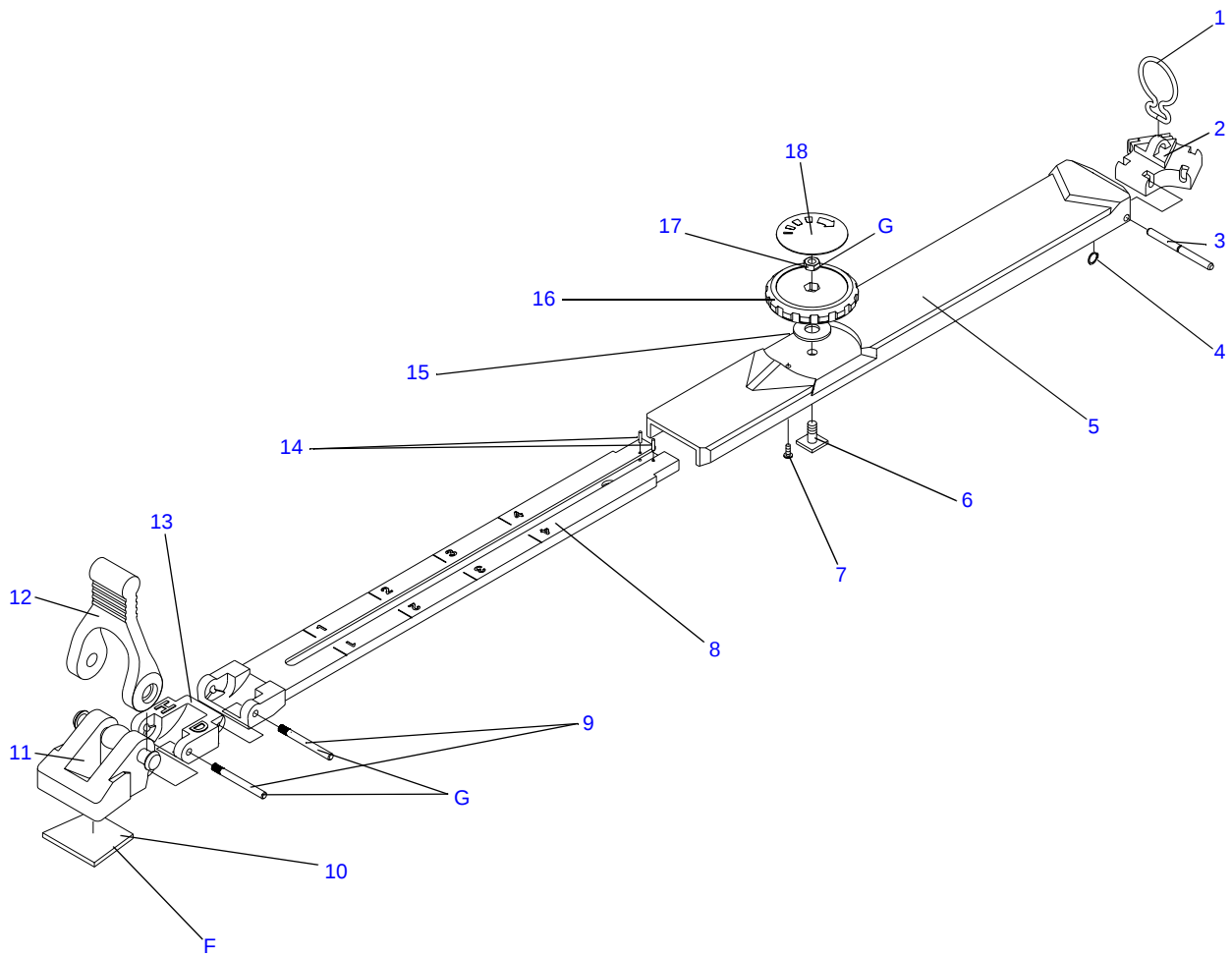


See [page 6](#) for letter key to adhesives and lubricants

Floor Spreader - for Carbon Fibre Tripods (3363-3)

Item No.	Part No.	Item	Qty
1	3313-219	Split ring	1
2	3363-201	Centre moulding	1
3	3313-211	Hinge pin	3
4	M701-054	'E'-Clip, crescent ring ("e"-clip variation), 4 mm shaft dia. x 0.40 mm thick	3
5	3363-202	Leg moulding - inner (female)	3
6	3313-214	Friction pad	3
7	3313-213	Clamp stud	3
8	3363-203	Leg moulding - outer (male)	3
	3363-901SP	Foot assembly (spares), comprising one each of:	
9	3313-218	Foot hinge pin	3
10	3313-212	Foot pad	3
11	3363-215	Foot support moulding	3
12	3313-216	Strap	3
13	L803-002	Pin, mills, 1/16 in. dia. x 1/4 in. long, gp2	6
14	M600-020	Washer, form "c", large, 20.5/21 mm ID x 8.4/8.7 mm OD x 1.4/1.8 mm thick	3
15	3313-204	Clamp knob moulding	3
16	M500-081	Nut, M5, standard (hex), full	3
17	3313-217	Clamp label	3

Heavy-Duty Floor Spreader (3367-3)



See [page 6](#) for letter key to adhesives and lubricants

Heavy-Duty Floor Spreader (3367-3)

ITEM No.	PART No.	ITEM	QTY
1	3313-219	Split ring	1
2	3363-201	Centre moulding	1
3	3314-202	Hinge pin	3
4	M701-054	'E'-Clip, crescent ring ("e"-clip variation), 4 mm shaft dia. x 0.40 mm thick	3
5	3314-11	Flexible inner leg	3
6	3313-213	Clamp stud	3
7	L101-005	Screw, self-tapping, pan head, slotted, M6 x 3/8 mm long, type b	3
8	3363-203	Leg moulding - outer (male)	3
	3363-901SP	Foot assembly (spares) - black, comprising one each of:	
9	3313-218	Foot hinge pin	6
10	3313-212	Foot pad	3
11	3363-215	Foot support moulding	3
12	3313-216	Strap	3
13	3367-201	Extension link	3
14	L803-002	Pin, mills, 1/16 in. dia. x 1/4 in. long, gp2	6
15	M600-020	Washer, form "c", large, 20.5/21 mm ID x 8.4/8.7 mm OD x 1.4/1.8 mm thick	3
16	3313-204	Clamp knob moulding	3
17	M500-081	Nut, M5, standard (hex), full	3
18	3313-217	Clamp label	3



Heavy-Duty Tracking Skid (3369-50)

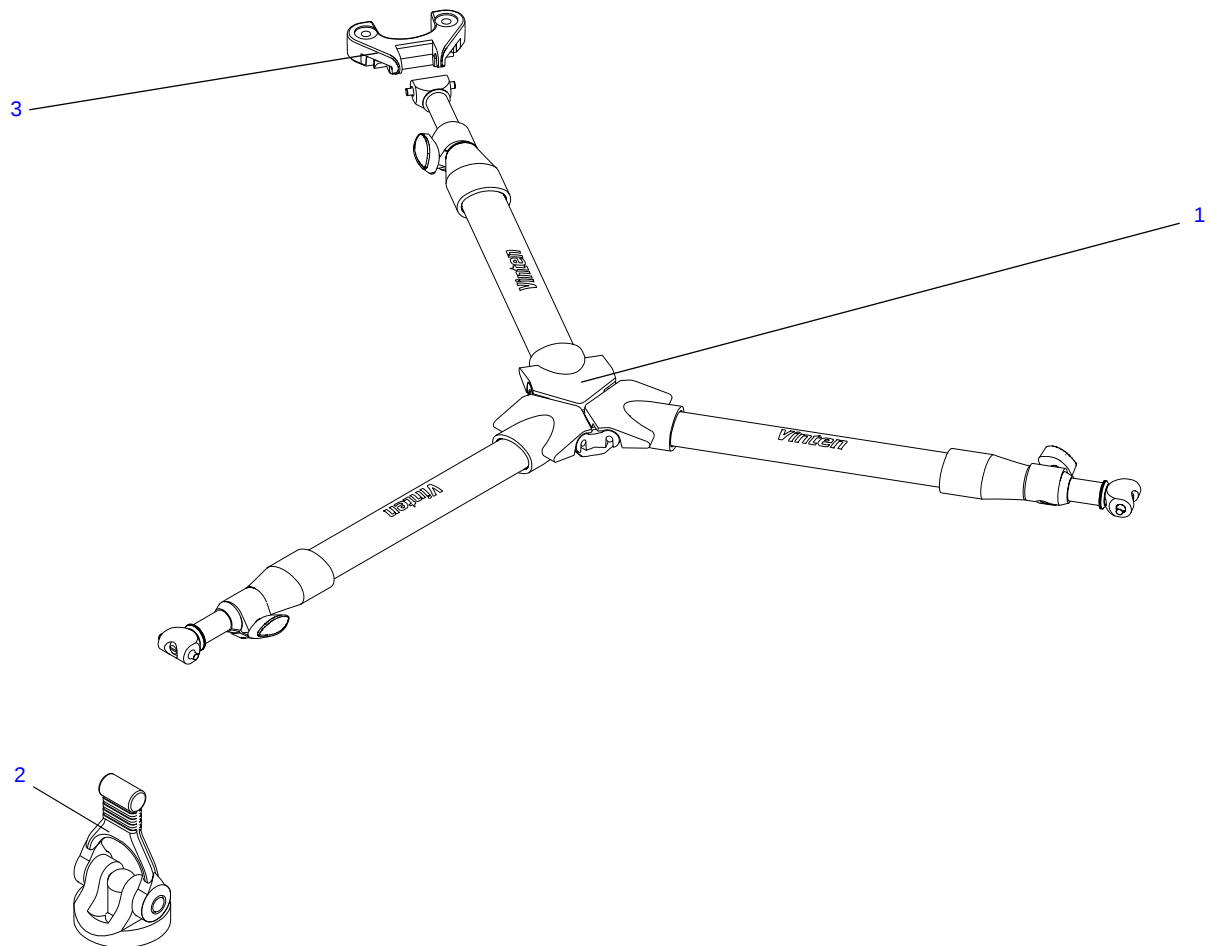
Item No.	Part No.	Item	Qty
1	3369-16	Centre housing (bonding) assembly - upper	1
2	M007-502	Screw, button head, socket, M6 x 12 mm long	2
3	3369-227	Steering lock bracket	1
4	3313-216	Strap	3
5	C510-133	Cap, plastic	8
6	M804-004	Rivet, blind-captive, domed head, open type, 4.8 mm dia. x 17.5 mm long x 9.80 / 9.25 mm head dia.	8
7	3368-215	Foot support housing (rivetable)	3
8	3369-224	Leg tube - fixed (Elemack wheels)	1
9	3368-214	Leg tube insert	5
10	3369-223	Rail housing (Elemack wheels)	1
11	3369-217	Rail shaft (Elemack wheels)	2
12	M005-815	Screw, grub, cup point, socket head, M4 x 4 mm long	4
13	P001-009	Bearing, plain, du bush, 12 mm ID x 14 mm OD x 12 mm long	2
14	N001-021	Bearing, plain, du bush, 1/2 in. ID x 19/32 in. OD x 1/2 in. long	2
15	3259-252	Shim - pan drag shaft top	6
16	3369-220	Wheel carriage (Elemack wheels)	3
17	M701-051	Circlip, external, standard, 16 mm shaft dia. x 1.00 mm thick	3
18	M701-009	Circlip, external, standard, 15 mm shaft dia. x 1.00 mm thick	6
19	3369-215	Shim washer (Elemack wheels)	6
20	K550-001	Wheel, 125 mm dia.	6
21	3369-219	Wheel spindle (Elemack wheels)	6
22	3369-218	Carriage mounting shaft (Elemack wheels)	1
23	3369-221	Wheel carriage slide (Elemack wheels)	1
24	M007-735	Screw, low-profile, cap head, socket, M6 x 45 mm long	2
25	3369-214	Centre housing lower (Elemack wheels)	1
26	M007-738	Screw, low-profile, cap head, socket, M6 x 20 mm long	1
27	M007-737	Screw, low-profile, cap head, socket, M6 x 35 mm long	3
28	3368-208	Plunger - leg index	2
29	J532-150	Spring, compression, 2-1/2 in. free length, 5/16 in. hole dia., 4.6 lbf/in. rate	2
30	3368-209	Spindle - leg pivot	2



Heavy-Duty Tracking Skid (3369-50)

Item No.	Part No.	Item	Qty
31	M606-003	Washer, plastic spacer, cup, 8.5 mm ID x 14 mm OD x 1.0 mm thick	4
32	3368-207	Sleeve - leg index	2
33	3369-222	Wheel mounting shaft (Elemack wheels)	2
34	3369-216	Spacer (Elemack wheels)	2
35	3369-226	Leg tube - folding right hand. (Elemack wheels)	1
NI	3369-225	Leg tube - folding left hand. (Elemack wheels)	1
36	M500-133	Nut, M12, standard (hex), full	2

Mid-Level Spreaders (3378)





Mid-Level Spreader (ENG) (3378-900SP)

Item No.	Part No.	Item	Qty
1	3378-11	Spreader assembly	1
2	3378-14	Foot assembly	3
3	3378-15	Interface bracket sub-assembly (ENG.)	3
NI	M006-919	Screw, countersunk head, socket, M5 x 40 mm long	6
NI	M500-083	Threaded-insert, well-nut, M5	6

Mid-Level Spreader (EFP)(3378-901SP)

Item No.	Part No.	Item	Qty
1	3378-11	Spreader assembly	1
2	3378-14	Foot assembly	3
3	3378-18	Interface bracket sub-assembly (EFP.)	3
NI	M006-919	Screw, countersunk head, socket, M5 x 40 mm long	6
NI	M500-083	Threaded-insert, well-nut, M5	6

Mid-Level Spreader (EFP) (Short) (3378-903SP)

Item No.	Part No.	Item	Qty
1	3378-31	Spreader assembly	1
2	3378-14	Foot assembly	3
3	3378-18	Interface bracket (EFP)	3
NI	M006-919	Screw, csk hd, M5 x 40 mm lg	6
NI	M500-083	Well-nut, M5	6

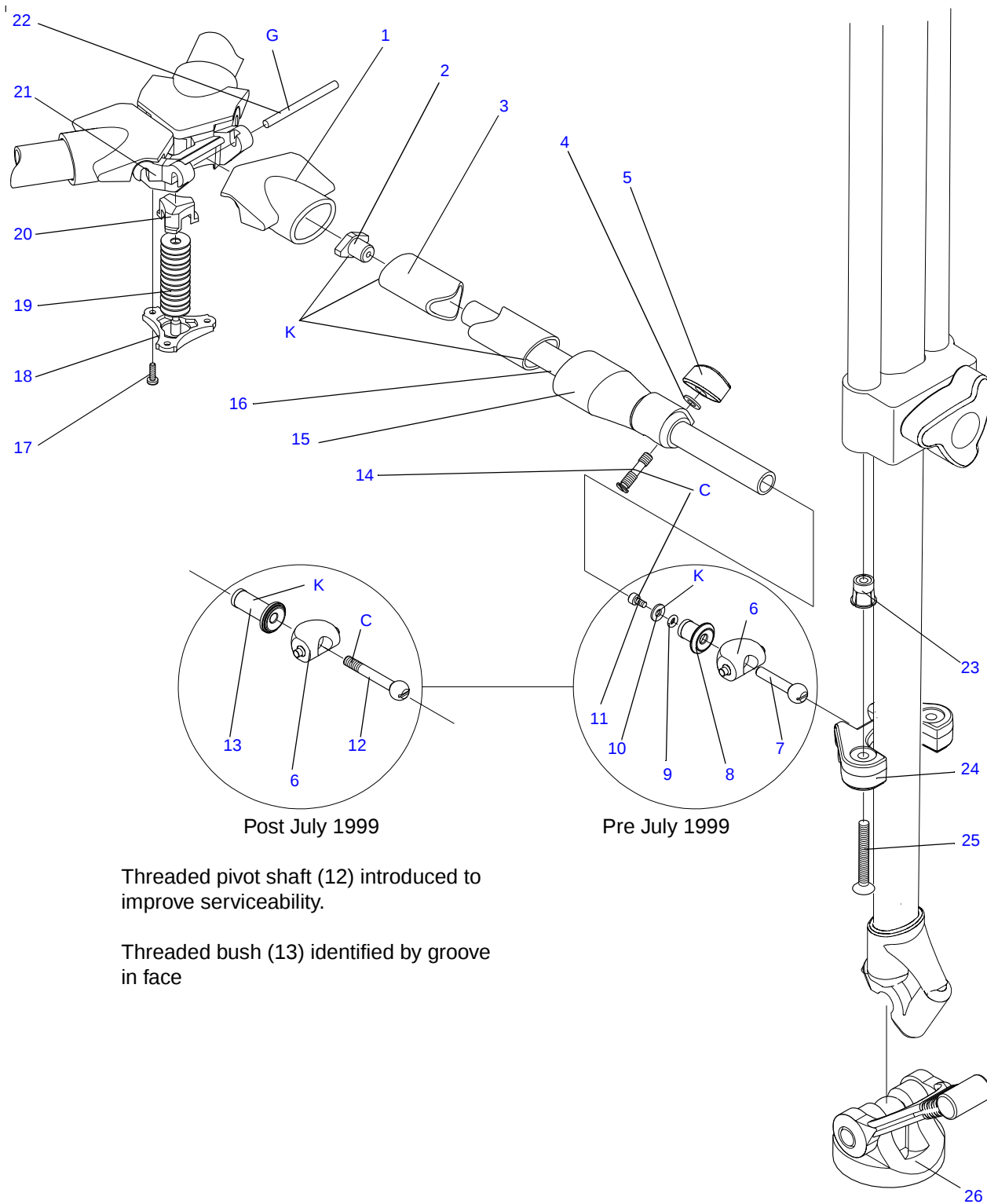
Mid-Level Spreader (ENG) (Short) (3378-904SP)

Item No.	Part No.	Item	Qty
1	3378-31	Spreader assembly - short	1
2	3378-14	Foot assembly	3
3	3378-15	Interface bracket sub-assembly (ENG.)	3
NI	M006-919	Screw, countersunk head, socket, M5 x 40 mm long	6
NI	M500-083	Threaded-insert, well-nut, M5	6

Set of Three Feet (3378-902SP)

Item No.	Part No.	Item	Qty
2	3378-14	Foot assembly	3

Mid-Level Spreaders (3378)



Spreader Assembly (3378-11)

ITEM No.	PART No.	ITEM	QTY
	3378-16	Arm assembly, comprising:	3
1	3378-212	Hinge	1
2	3378-214	Tube guide	1
3	3378-215	Oval tube	1
4	M600-006	Washer, plain, heavy, M5	1
5	K403-013	Knob, locking-key, female, M5 thread, 26 mm wide	1
6	3378-232	Universal joint	1
Pre July 1999			
7	3378-234	Pivot shaft	1
8	3378-233	Bush	1
9	R900H005	'O' ring, 5.1 mm ID x 16 mm section	1
10	M600-004	Washer, plain, heavy, M4	1
11	M004-502	Screw, button head, socket, M3 x 6 mm long	1
Post July 1999			
12	3378-224	Pivot shaft	1
13	3378-223	Bush	1
14	3378-211	Shaft (clamp)	1
15	3378-12	Clamp assembly	1
16	3378-216	Round tube	
17	L101-027	Screw, self-tapping, pan head, pozidrive, M4 x 3/8 mm long, type y	3
18	3378-210	Retainer	1
19	M601-264	Spring, disc, 5.2 mm ID x 15 mm OD x 0.7 mm thick	12
20	3378-249	Spring cap	1
21	3378-213	Spider	1
22	3378-209	Dowel	3



Spreader Assembly - Short (3378-31)

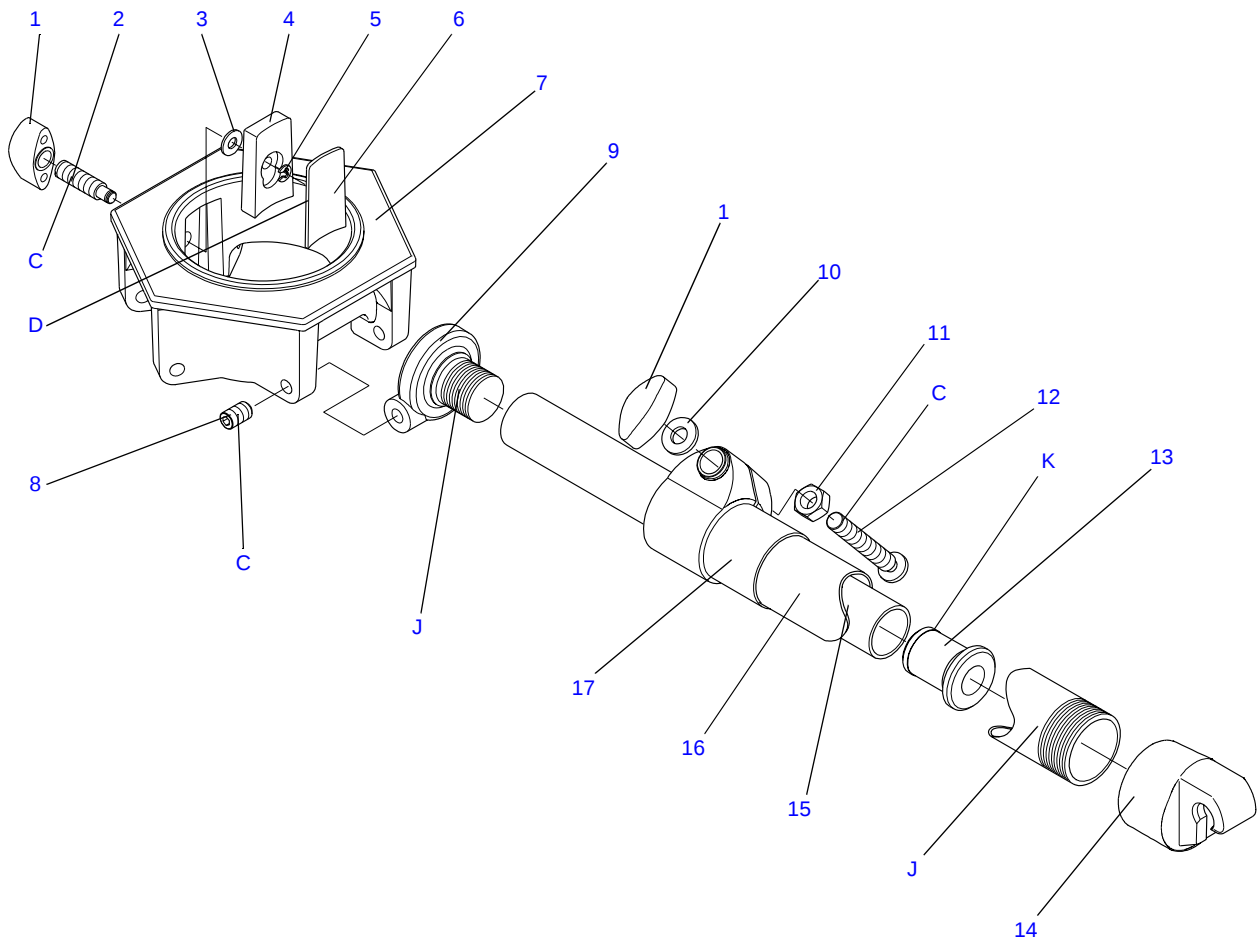
ITEM No.	PART No.	ITEM	QTY
	3378-36	Arm assembly - short, comprising:	3
1	3378-212	Hinge	1
2	3378-214	Tube guide	1
3	3378-220	Oval tube - short	1
4	M600-006	Washer, plain, heavy, M5	1
5	K403-013	Knob, locking-key, female, M5 thread, 26 mm wide	1
6	3378-232	Universal joint	1
Pre July 1999			
7	3378-234	Pivot shaft	1
8	3378-233	Bush	1
9	R900H005	'O' ring, 5.1 mm ID x 16 mm section	1
10	M600-004	Washer, plain, heavy, M4	1
11	M004-502	Screw, button head, socket, M3 x 6 mm long	1
Post July 1999			
12	3378-234	Pivot shaft	1
13	3378-233	Bush	1
12	3378-211	Shaft (clamp)	1
13	3378-12	Clamp assembly	1
16	3378-221	Round tube - short	
17	L101-027	Screw, self-tapping, pan head, pozidrive, M4 x 3/8 mm long, type y	3
18	3378-210	Retainer	1
19	M601-264	Spring, disc, 5.2 mm ID x 15 mm OD x 0.7 mm thick	12
20	3378-249	Spring cap	1
21	3378-213	Spider	1
22	3378-209	Dowel	3



Fixings, Etc.

ITEM No.	PART No.	ITEM	QTY
23	M500-083	Threaded-insert, well-nut, M5	6
24	3378-15	Interface bracket sub-assembly (ENG.)	3
25	M006-919	Screw, countersink head, socket, M5 x 40 mm long	6
26	3378-14	Foot assembly	3

Single-Stage Heavy-Duty Tripod Spreader (3495-23)

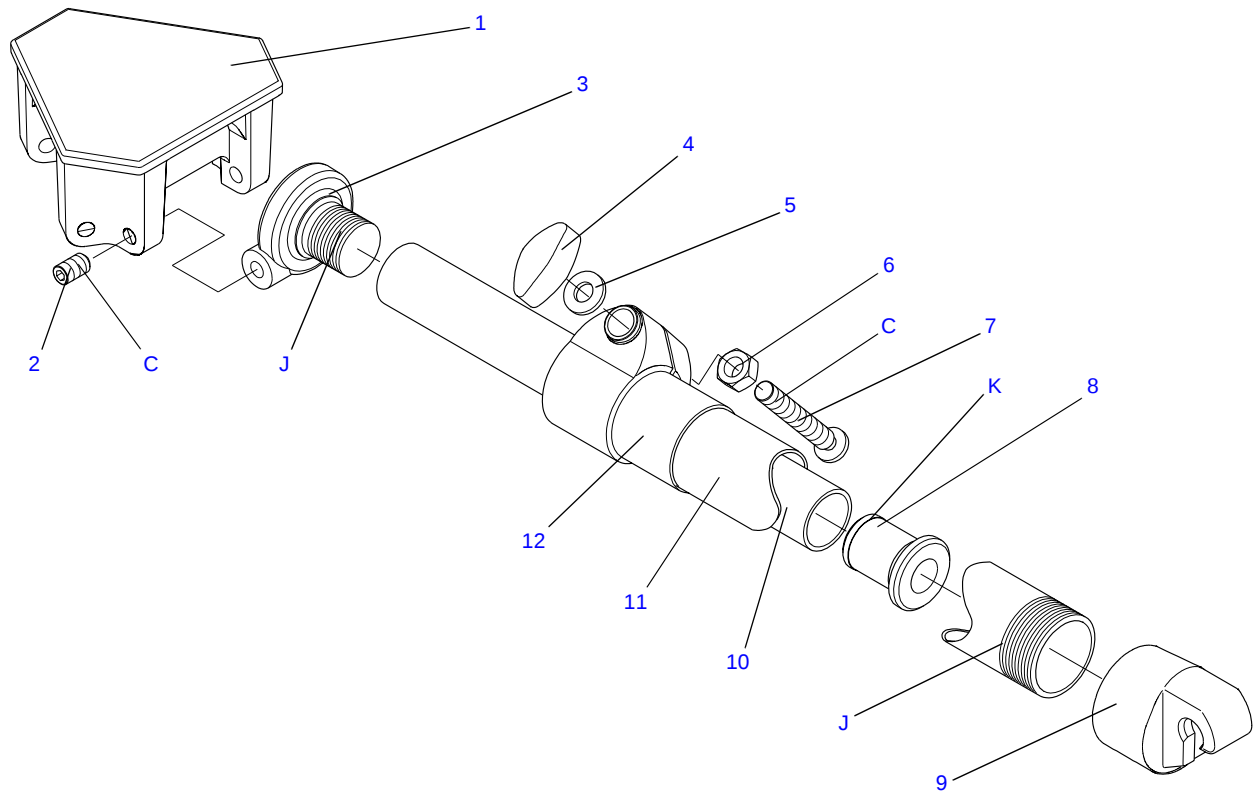


See [page 6](#) for letter key to adhesives and lubricants

Single-Stage Heavy-Duty Tripod Spreader (3495-23)

ITEM No.	PART No.	ITEM	QTY
1	K403-004	Knob, locking-key, female, M6 thread, 32 mm wide	1
2	3365-203	Stud - spreader clamp knob	1
3	M600-004	Washer, plain, heavy, M4	1
4	3365-202	Slipper spreader clamp	1
5	M701-061	'E'-Clip, standard, 3.5 mm shaft dia. x 0.60 mm thick	1
6	3312-221	Lower clamp pad	1
7	3365-201	Spreader housing, including:	1
NI	M850-026	Threaded-insert, wire thread insert (helicoil), M6 x 1 Diameters long	1
8	M007-816	Screw, grub, cone point, socket head, M6 x 10 mm long	6
	3495-24	Spreader tubes bonding assembly, each comprising:	3
1	K403-004	Knob, locking-key, female, M6 thread, 32 mm wide	1
9	3366-216	Pivot lug (3/4 in. spreader tube)	1
10	M600-305	Washer, M6	1
11	M500-082	Nut, M6, standard (hex), full	1
12	3219-299	Pan bar clamp (M6)	1
13	3366-229	Bung - spreader tube stop	1
14	3366-217	Pivot fork (1 in. spreader tube)	1
15	3495-204	Tube inner mid-level spreader	1
16	3495-25	Tube slitting assembly outer spreader	1
17	3219-217	Shrink wrap sleeve	1

Two-Stage Heavy-Duty Tripod Spreader (3496-23)

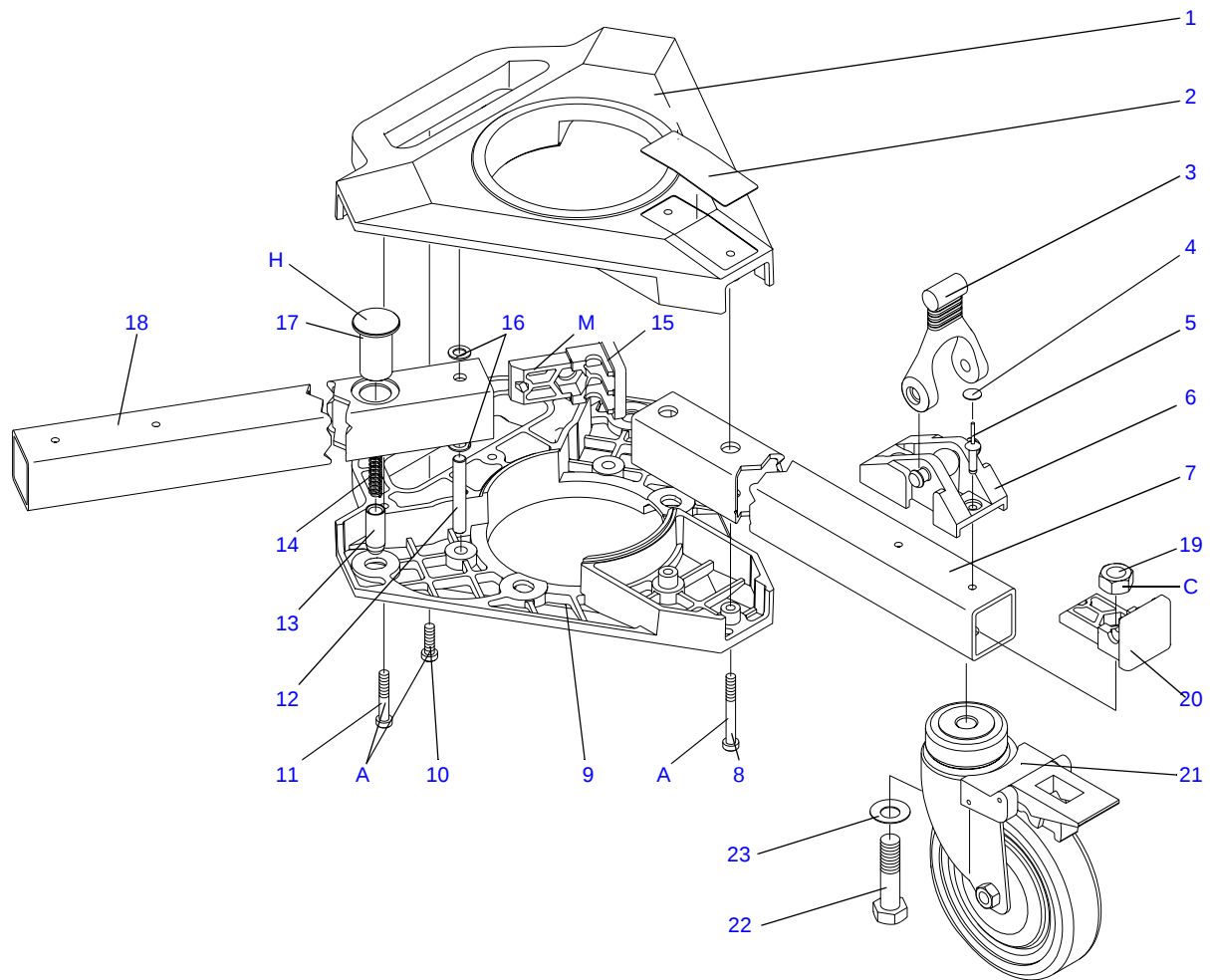


See [page 6](#) for letter key to adhesives and lubricants

Two-Stage Heavy-Duty Tripod Spreader (3496-23)

Item No.	Part No.	Item	Qty
1	3366-218	Spreader housing	1
2	M007-816	Screw, grub, cone point, socket head, M6 x 10 mm long	6
	3496-24	Spreader tubes (bonding) assembly, each comprising:	3
3	3366-216	Pivot lug (3/4 in. spreader tube)	1
4	K403-004	Knob, locking-key, female, M6 thread, 32 mm wide	1
5	M600-305	Washer, M6	1
6	M500-082	Nut, M6, standard (hex), full	1
7	3219-299	Pan bar clamp (M6)	1
8	3366-229	Bung - spreader tube stop	1
9	3366-217	Pivot fork (1 in. spreader tube)	1
10	3496-202	Tube inner mid-level spreader	1
11	3496-25	Tube (slitting) assembly outer spreader	1
12	3219-217	Shrink wrap sleeve	1

Heavy-Duty (OB) Skid (3497-3B)

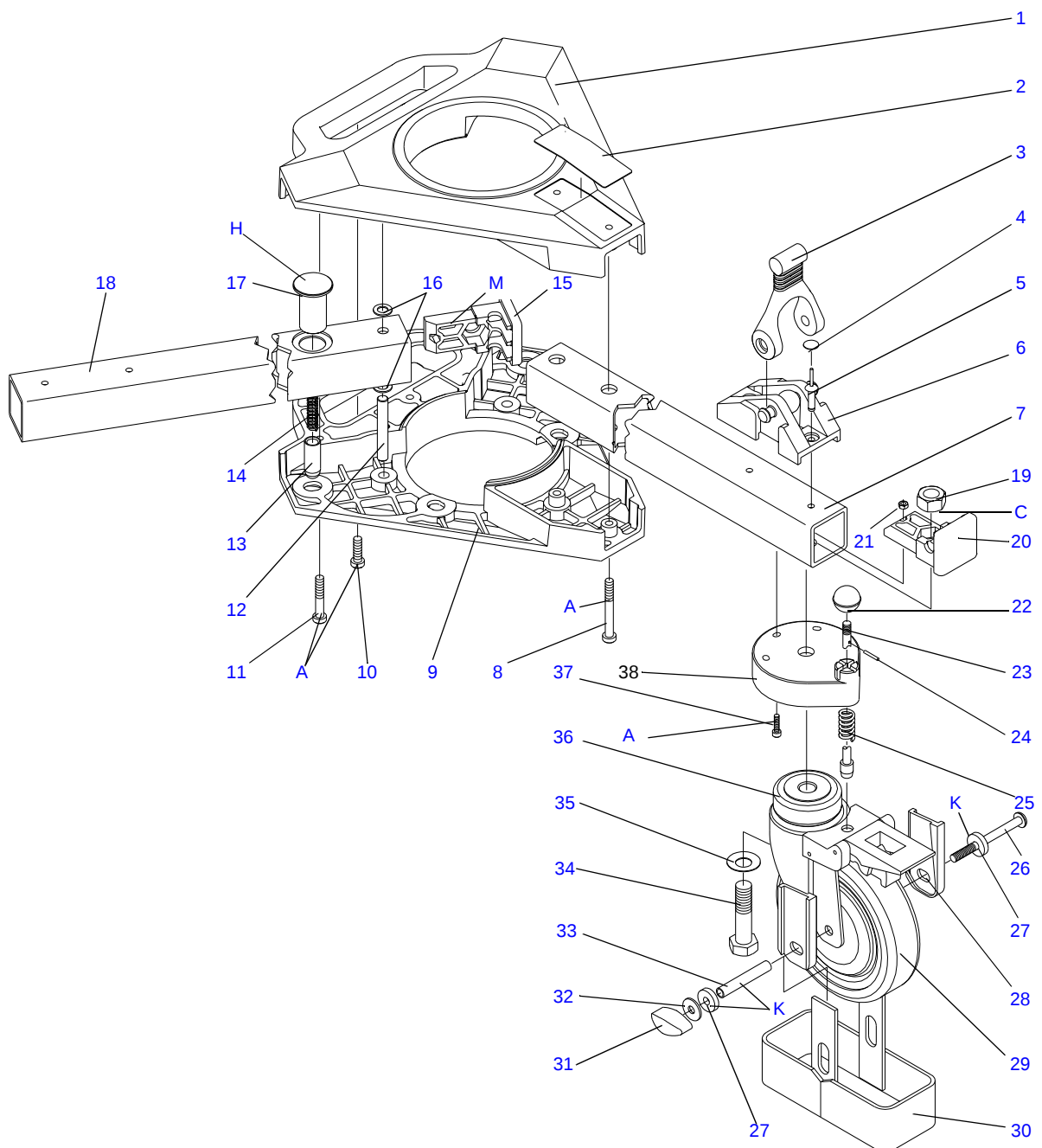


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Heavy-Duty (OB) Skid (3497-3B)

Item No.	Part No.	Item	Qty
	3497-11	Skeleton assembly, comprising:	1
1	3497-201	Centre housing upper	1
2	3497-210	"Vinten" label	1
3	3313-216	Strap	3
4	C510-133	Cap, plastic	6
5	M804-004	Rivet, blind-captive, domed head, open type, 4.8 mm dia. x 17.5 mm long x 9.80 / 9.25 mm head dia.	6
6	3368-215	Foot support housing (rivetable)	3
7	3497-205	Leg tube fixed	1
8	M007-736	Screw, low-profile, cap head, socket, M6 x 50 mm long	2
9	3497-202	Centre housing lower	1
10	M007-738	Screw, low-profile, cap head, socket, M6 x 20 mm long	1
11	M007-737	Screw, low-profile, cap head, socket, M6 x 35 mm long	3
12	3368-209	Spindle - leg pivot	2
13	3368-208	Plunger - leg index	2
14	J532-150	Spring, compression, 2-1/2 in. free length, 5/16 in. hole dia., 4.6 lbf/in. rate	2
15	3497-204	Leg tube insert	2
16	M606-003	Washer, plastic spacer, cup, 8.5 mm ID x 14 mm OD x 1.0 mm thick	4
17	3368-207	Sleeve - leg index	2
18	3497-206	Leg tube folding	2
19	M500-133	Nut, M12, standard (hex), full	3
20	3497-204	Leg tube insert	3
21	3511-17	Castor assembly (150mm, 12 diameter though hole precision bearing)	3
22	M010-990	Screw, hex head, M12 x 50 mm long	3
23	M601-252	Spring, disc, 12.2 mm ID x 25 mm OD x 0.7 mm thick, 0.9 mm free height	3

Heavy-Duty Skid (Studio Version) (3497-3C)



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Heavy-Duty Skid (Studio Version) (3497-3C)

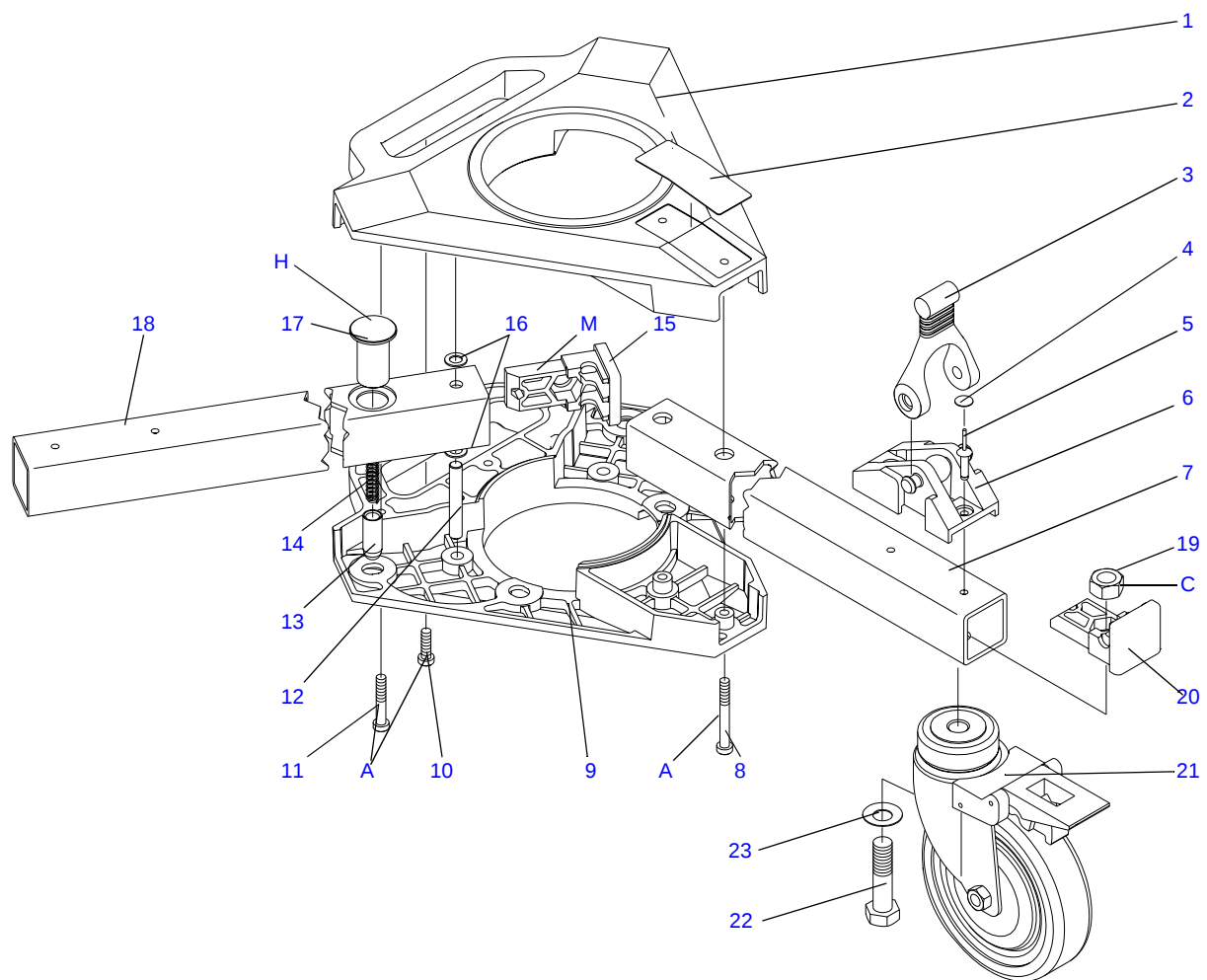
Item No.	Part No.	Item	Qty
	3497-11	Skeleton assembly, comprising:	1
1	3497-201	Centre housing upper	1
2	3497-210	"Vinten" label	1
3	3313-216	Strap	3
4	C510-133	Cap, plastic	6
5	M804-004	Rivet, blind-captive, domed head, open type, 4.8 mm dia. x 17.5 mm long x 9.80 / 9.25 mm head dia.	6
6	3368-215	Foot support housing (rivetable)	3
7	3497-205	Leg tube fixed	1
8	M007-736	Screw, low-profile, cap head, socket, M6 x 50 mm long	2
9	3497-202	Centre housing lower	1
10	M007-738	Screw, low-profile, cap head, socket, M6 x 20 mm long	1
11	M007-737	Screw, low-profile, cap head, socket, M6 x 35 mm long	3
12	3368-209	Spindle - leg pivot	2
13	3368-208	Plunger - leg index	2
14	J532-150	Spring, compression, 2-1/2 in. free length, 5/16 in. hole dia., 4.6 lbf/in. rate	2
15	3497-204	Leg tube insert	2
16	M606-003	Washer, plastic spacer, cup, 8.5 mm ID x 14 mm OD x 1.0 mm thick	4
17	3368-207	Sleeve - leg index	2
18	3497-206	Leg tube folding	2
19	M500-133	Nut, M12, standard (hex), full	3
20	3497-204	Leg tube insert [similar to 3368-214]	3
21	M500-070	Nut, M4, standard (hex), full	3
22	C510-119	Knob, 3/4 in. dia, red	1
	C510-056	Knob, 3/4 in. dia, black	2
23	3319-211	Wheel lock plunger	3
24	M806-036	Pin, coiled-spring, 2 mm dia. x 14 mm long, mdp	3
25	J532-029	Spring, compression, 1 in. free length, 5/16 in. OD, 3.5 lbf/in. rate	3
26	M007-016	Screw, pan head, pozidrive, M6 x 65 mm long	3
27	M600-310	Washer, clamp, 6.4 mm ID x 17 mm OD x 3 mm thick	6



Heavy-Duty Skid (Studio Version) (3497-3C) (Cont)

Item No.	Part No.	Item	Qty
28	3319-220	Cable guard mounting bracket left hand.	3
29	3319-221	Cable guard mounting bracket right hand	3
30	3327-24	Cable guard (weld) assembly - castor	3
31	K403-004	Knob, locking-key, female, M6 thread, 32 mm wide	3
32	M600-007	Washer, plain, heavy, M6	3
33	3327-239	Sleeve - castor wheel axle	3
34	M010-990	Screw, hex head, M12 x 50 mm long	3
35	M601-252	Spring, disc, 12.2 mm ID x 25 mm OD x 0.7 mm thick, 0.9 mm free height	3
36	3368-210	Castor (modified - 125 diameter wheel; 12 diameter through hole)	3
37	M005-706	Screw, cap head, socket, M4 x 16 mm long	3
38	3497-203	Wheel lock housing [similar to 3368-202]	3

Heavy-Duty (OB) Skid (3497-3E)



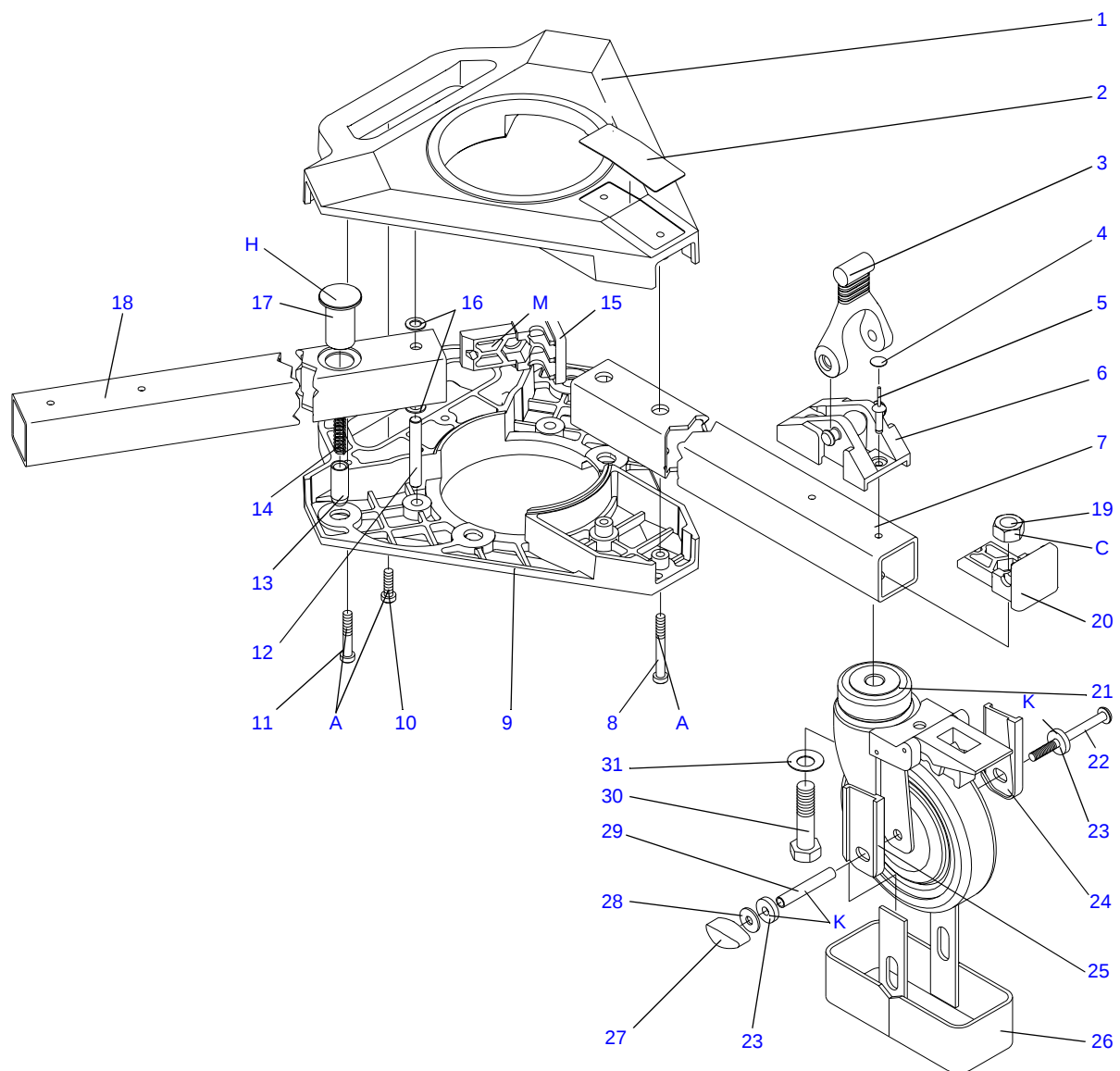
See [page 6](#) for letter key to adhesives and lubricants



Heavy-Duty (OB) Skid (3497-3E)

Item No.	Part No.	Item	Qty
	3497-11	Skeleton assembly, comprising:	1
1	3497-201	Centre housing upper	1
2	3497-210	"Vinten" label	1
3	3313-216	Strap	3
4	C510-133	Cap, plastic	6
5	M804-004	Rivet, blind-captive, domed head, open type, 4.8 mm dia. x 17.5 mm long x 9.80 / 9.25 mm head dia.	6
6	3368-215	Foot support housing (rivetable)	3
7	3497-205	Leg tube fixed	1
8	M007-736	Screw, low-profile, cap head, socket, M6 x 50 mm long	2
9	3497-202	Centre housing lower	1
10	M007-738	Screw, low-profile, cap head, socket, M6 x 20 mm long	1
11	M007-737	Screw, low-profile, cap head, socket, M6 x 35 mm long	3
12	3368-209	Spindle - leg pivot	2
13	3368-208	Plunger - leg index	2
14	J532-150	Spring, compression, 2-1/2 in. free length, 5/16 in. hole dia., 4.6 lbf/in. rate	2
15	3497-204	Leg tube insert	2
16	M606-003	Washer, plastic spacer, cup, 8.5 mm ID x 14 mm OD x 1.0 mm thick	4
17	3368-207	Sleeve - leg index	2
18	3497-206	Leg tube folding	2
19	M500-133	Nut, M12, standard (hex), full	3
20	3497-204	Leg tube insert	3
21	3511-16	Castor assembly (125mm, 12 diameter though hole precision bearing)	3
22	M010-990	Screw, hex head, M12 x 50 mm long	3
23	M601-252	Spring, disc, 12.2 mm ID x 25 mm OD x 0.7 mm thick, 0.9 mm free height	3

Heavy-Duty Skid (Studio Version) (3497-3G)



See [page 6](#) for letter key to adhesives and lubricants



Heavy-Duty Skid (Studio Version) (3497-3G)

ITEM No.	PART No.	ITEM	QTY
	3497-11	Skeleton assembly, comprising:	1
1	3497-201	Centre housing upper	1
2	3497-210	"Vinten" label	1
3	3313-216	Strap	3
4	C510-133	Cap, plastic	6
5	M804-004	Rivet, blind-captive, domed head, open type, 4.8 mm dia. x 17.5 mm long x 9.80 / 9.25 mm head dia.	6
6	3368-215	Foot support housing (rivetable)	3
7	3497-205	Leg tube fixed	1
8	M007-736	Screw, low-profile, cap head, socket, M6 x 50 mm long	2
9	3497-202	Centre housing lower	1
10	M007-738	Screw, low-profile, cap head, socket, M6 x 20 mm long	1
11	M007-737	Screw, low-profile, cap head, socket, M6 x 35 mm long	3
12	3368-209	Spindle - leg pivot	2
13	3368-208	Plunger - leg index	2
14	J532-150	Spring, compression, 2-1/2 in. free length, 5/16 in. hole dia., 4.6 lbf/in. rate	2
15	3497-204	Leg tube insert	2
16	M606-003	Washer, plastic spacer, cup, 8.5 mm ID x 14 mm OD x 1.0 mm thick	4
17	3368-207	Sleeve - leg index	2
18	3497-206	Leg tube folding	2
19	M500-133	Nut, M12, standard (hex), full	3
20	3497-204	Leg tube insert [similar to 3368-214]	3
21	3511-16	Castor assembly (125mm, 12 diameter though hole precision bearing)	3
22	M007-016	Screw, pan head, pozidrive, M6 x 65 mm long	3
23	M600-310	Washer, clamp, 6.4 mm ID x 17 mm OD x 3 mm thick	6
24	3319-220	Cable guard mounting bracket left hand.	3
25	3319-221	Cable guard mounting bracket right hand	3
26	3327-24	Cable guard (weld) assembly - castor	3
27	K403-004	Knob, locking-key, female, M6 thread, 32 mm wide	3
28	M600-007	Washer, plain, heavy, M6	3



Heavy-Duty Skid (Studio Version) (3497-3G) (Cont)

ITEM No.	PART No.	ITEM	QTY
29	3327-239	Sleeve - castor wheel axle	3
30	M010-990	Screw, hex head, M12 x 50 mm long	3
31	M601-252	Spring, disc, 12.2 mm ID x 25 mm OD x 0.7 mm thick, 0.9 mm free height	3



Part 2 - Repairs

Adjusting the tracking of Vision studio skids (3319-3C)

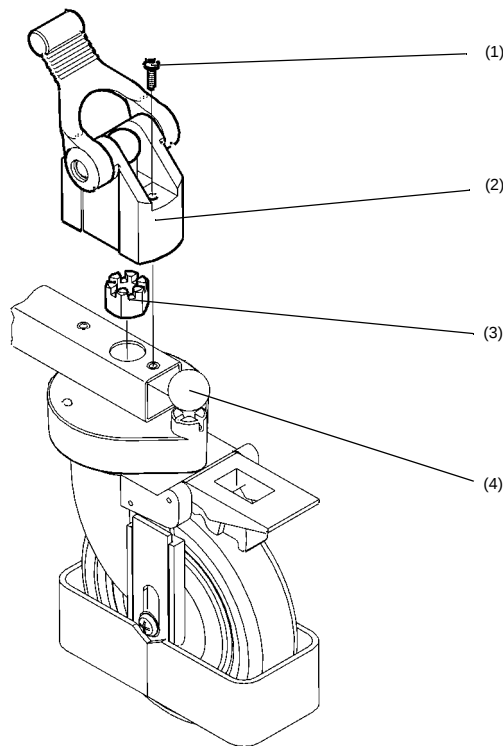
Introduction

1 With the track locks engaged and a payload fitted, the skid should track in a straight line over a distance of 3.6 m (12 feet) with deviation not exceeding 5 cm (2 in.). If this cannot be achieved, the wheels should be re-aligned. When re-aligning the wheels, start by adjusting the wheel with the red locking knob on the fixed leg. This will often correct any alignment problems.

Consumables

2 The following adhesive will be required:

Loctite 242





Wheel alignment

- 3 To re-align the skid wheels:
 - 3.1 Remove the tripod or pedestal from the skid.
 - 3.2 Engage the track lock (4) on each castor.
 - 3.3 Remove two screws (1) from the foot support (2) on the fixed leg and remove the foot support.
 - 3.4 Using special wheel nut spanner (Part No. 3319-900SP) remove nut (3).
 - 3.5 Apply Loctite 242 to the nut, re-install and tighten lightly.
 - 3.6 Align the wheel on the fixed leg so that it runs parallel to the leg.
 - 3.7 Using a suitable straight line on the studio floor, check that over a distance of 3.6 m (12 feet) the deviation does not exceed 5 cm (2 in.). Re-adjust the wheel until this is achieved. If it cannot be achieved, the wheels on the other two legs should be re-aligned.
 - 3.8 Once the wheels have been correctly aligned, tighten nuts (3).
 - 3.9 Install foot support (2) on each leg and secure with two screws (1).

Adjusting the tracking of heavy-duty studio skid (3497-3C)

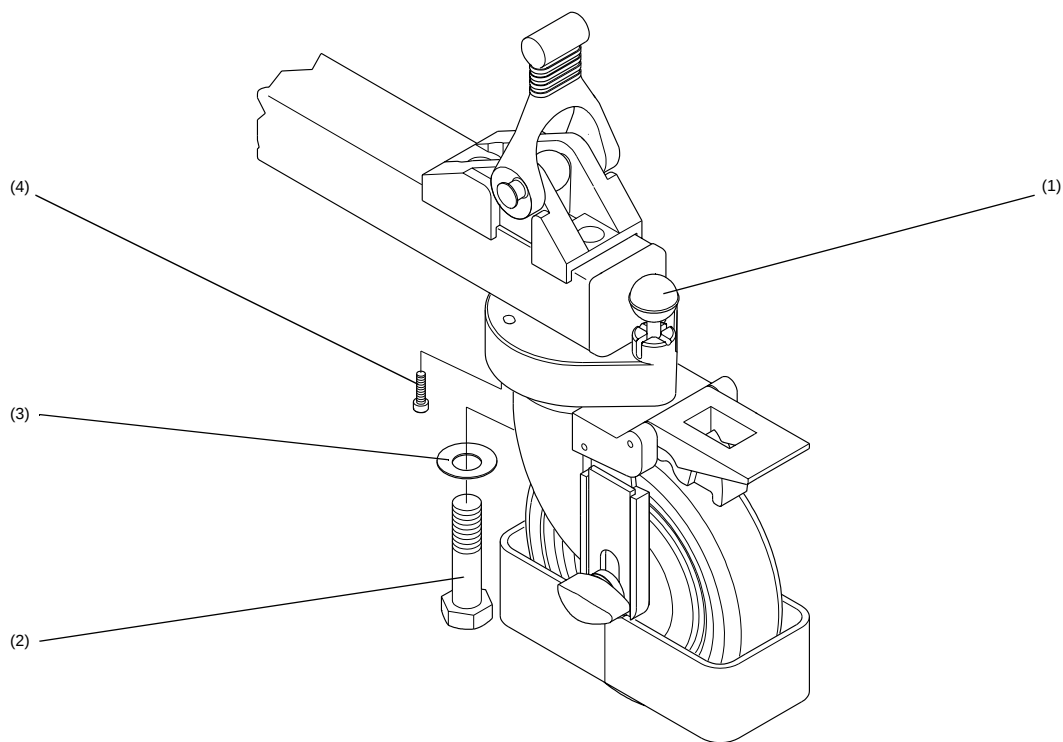
Introduction

1 With the track locks engaged and a payload fitted, the skid should track in a straight line over a distance of 3.6 m (12 feet) with deviation not exceeding 5 cm (2 in.). If this cannot be achieved, the wheels should be re-aligned. When re-aligning the wheels, start by adjusting the wheel with the red locking knob on the fixed leg. This will often correct any alignment problems.

Consumables

2 The following adhesive will be required:

Loctite 270





Wheel alignment

- 3 To re-align the skid wheels:
 - 3.1 Remove the tripod or pedestal from the skid.
 - 3.2 Slacken screw (4).
 - 3.3 Remove the bolt (2) and washer (3) securing the castor to the fixed leg. Apply Loctite 270 to the bolt (2) and refit bolt (2) and washer (3) and tighten lightly.
 - 3.4 Engage the track lock (1) on each castor.
 - 3.5 Align the wheel on the fixed leg so that it runs parallel to the leg.
 - 3.6 Using a suitable straight line on the studio floor, check that over a distance of 3.6 m (12 feet) the deviation does not exceed 5 cm (2 in.). Re-adjust the wheel until this is achieved. If it cannot be achieved, the wheels on the other two legs should be re-aligned.
 - 3.7 Once the wheels have been correctly aligned, tighten bolts (2) and screws (4).