

ENGLISH

**KL-2 Knee lifter
INSTRUCTION MANUAL / PARTS LIST**

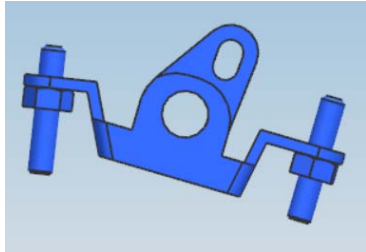
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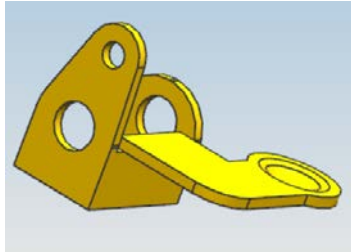
1. Device name

40301219 Mechanical knee lifter (asm.)

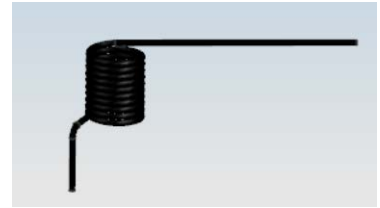
2. Device configuration



Knee lifter rotation arm (asm.)



Knee lifter actuation arm



Spring



Nut



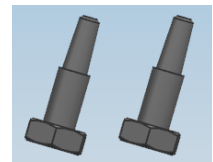
Plain washer



Hinge screw



E ring



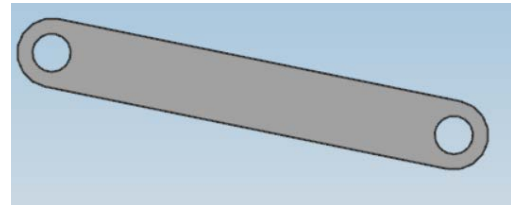
Hexagon head
bolt



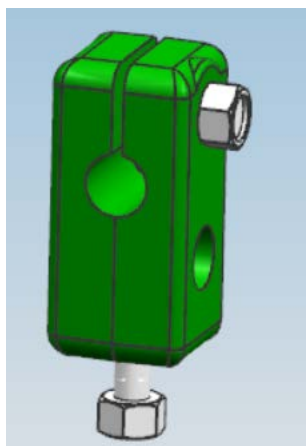
Knee pad horizontal shaft



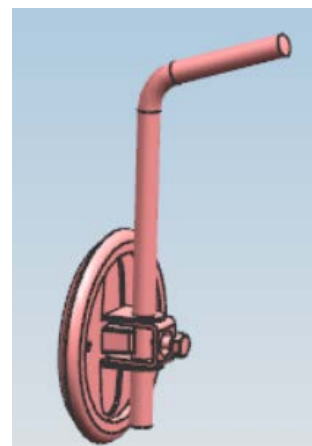
Knee lifter operating shaft



Knee lifter connecting rod



Knee pad vertical shaft
mounting arm



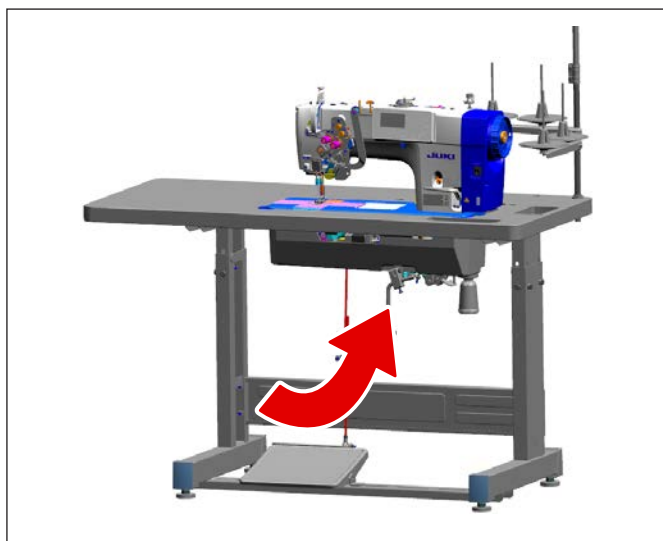
Knee pad plate (asm.)

3. Installation procedure



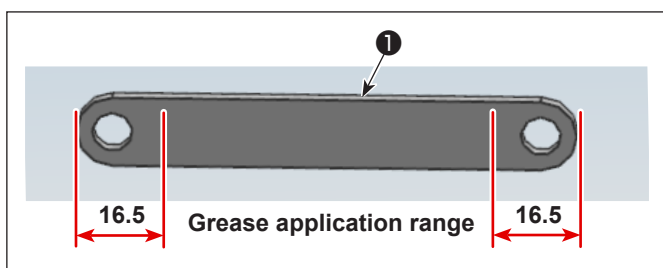
WARNING :

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

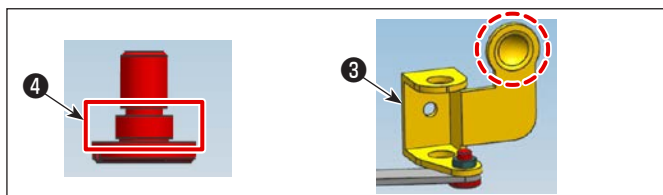


As you need to crouch down to install the knee lifter, be careful not to bump your head on the table.

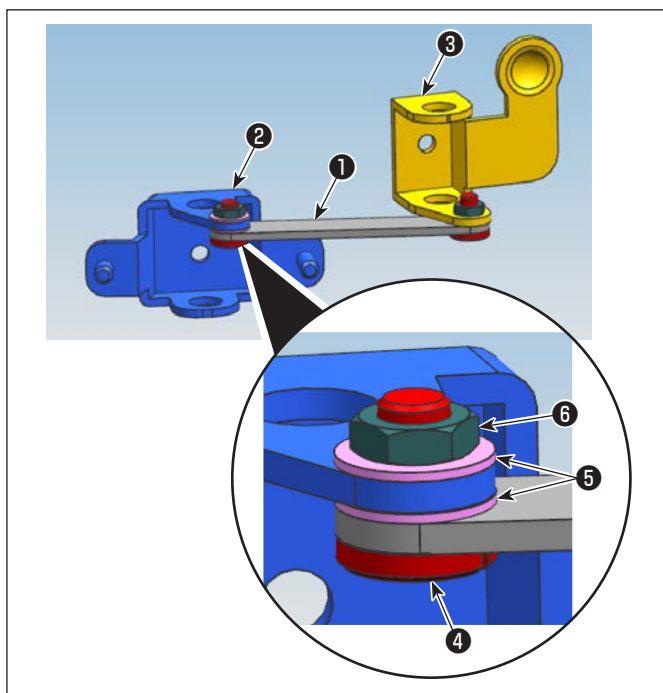
(1) Knee lifter subassembly



- 1) Apply JUKI Grease A to both sides of the end face of and the holes in knee lifter connecting rod ① .

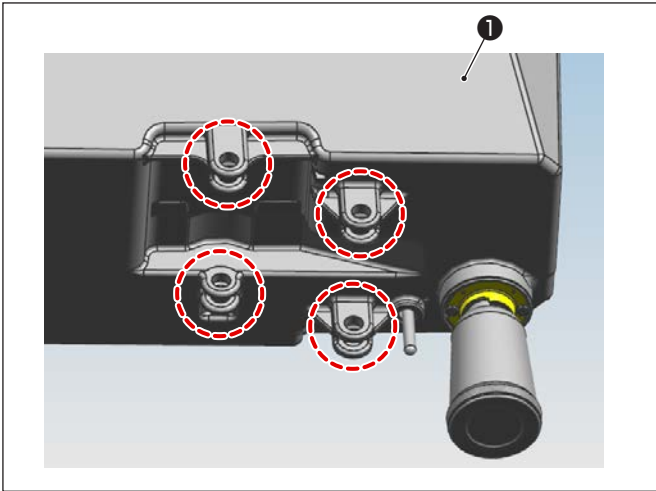


- 2) Apply JUKI Grease A to the shaft part of hinge screw ④ and the saucer-shaped concave side of knee lifter actuation arm ③ .

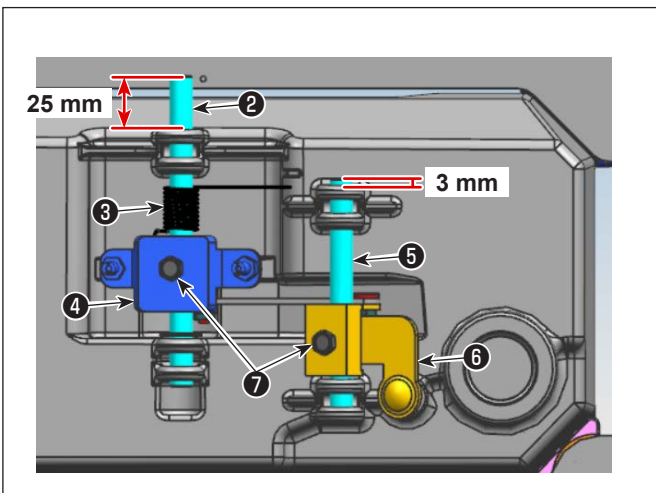


- 3) Secure knee lifter connecting rod ① , knee lifter rotation arm (asm.) ② and knee lifter actuation arm ③ with hinge screw ④ and nut ⑥ .
- * Install two plain washers ⑤ to both sides of knee lifter rotation arm (asm.) ② . (Installation of a plain washer is not necessary for knee lifter actuation arm ③ .)

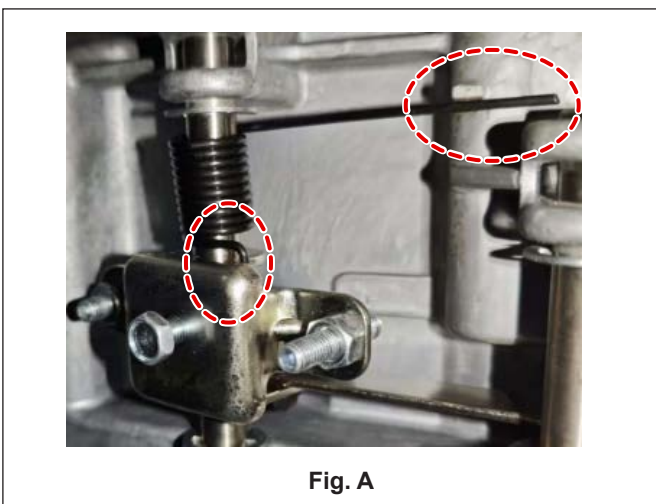
(2) Installing the knee lifter



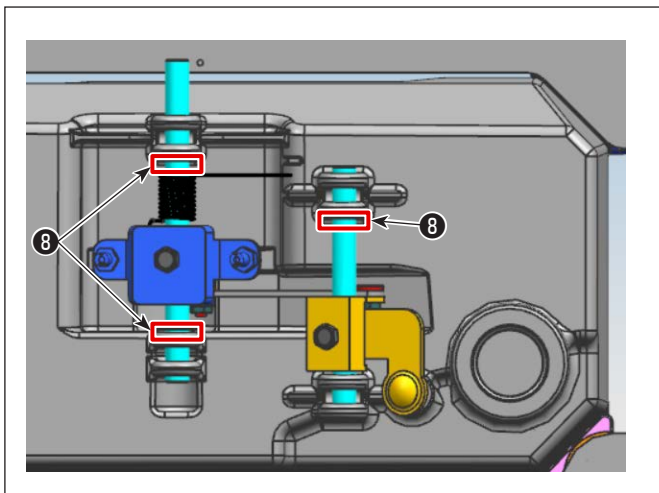
- 1) Apply JUKI Grease A to the holes (four locations) in the oil pan ① .



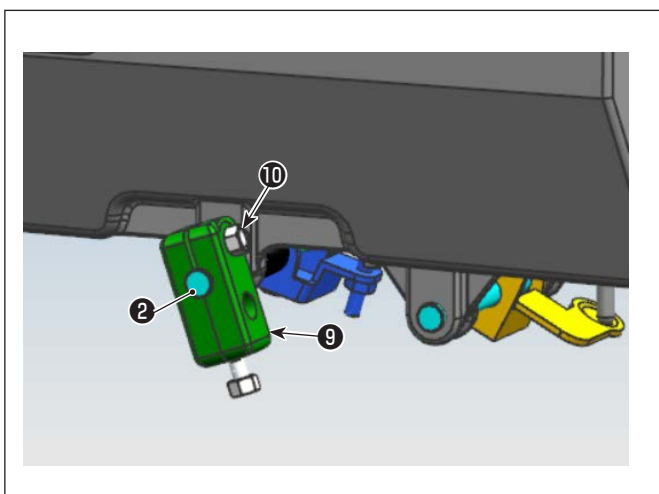
- 2) Pass the knee pad horizontal shaft ② through the oil pan ① , spring ③ , and knee lifter rotation arm assembly ④ , in this order.
Then pass the knee lifter operating shaft ⑤ through the oil pan and the knee lifter actuation arm ⑥ .
* Make sure that the knee pad horizontal shaft ② protrudes approximately 25 mm from the end face and that the knee lifter operating shaft ⑤ protrudes approximately 3 mm from the end face.



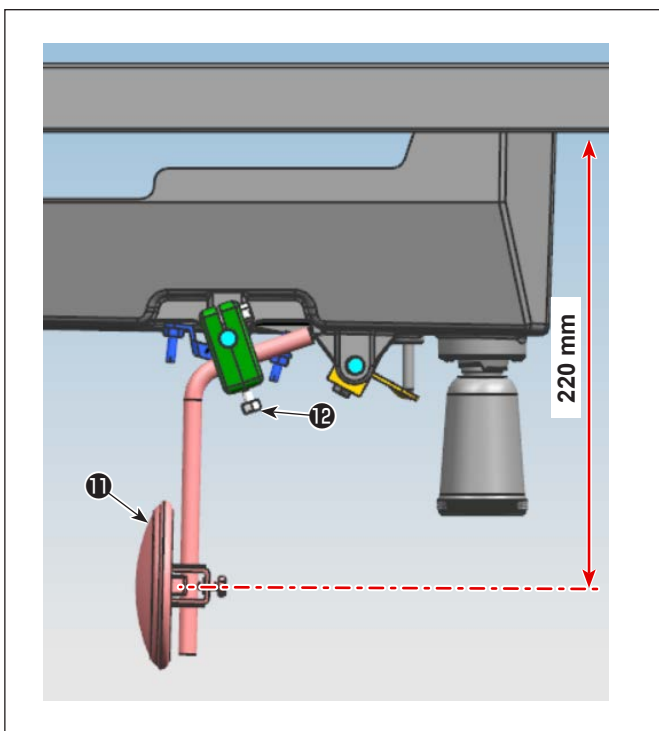
- 3) Tighten the hexagon head bolt ⑦ so that its tip fits into the holes in shafts ② and ⑤ . Hook one end of spring ③ onto the knee lifter rotation arm (asm.) ④ , and hook the other end inside the base of the oil pan.
(See Fig. A.)
Apply JUKI Grease A to the outer periphery and the hook portions (two locations) of spring ③ .



- 4) Fit three E-rings **8** onto the knee pad horizontal shaft **2** and the knee lifter operating shaft **5** .

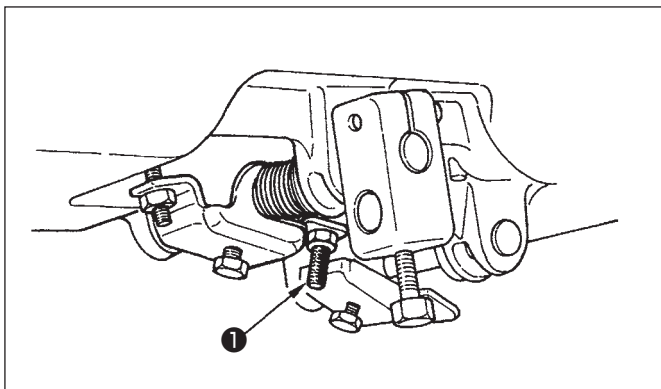


- 5) Secure the knee pad vertical shaft mounting arm **9** to the knee pad horizontal shaft **2** with a bolt **10** .



- 6) Insert the knee pad plate (asm.) **11** into the hole in the knee pad vertical shaft mounting arm **9** and secure it with a bolt **12** .
- * Adjust the knee pad plate (asm.) **11** to an easy-to-use position.
As a guide, adjust it to 220 mm below the undersurface of the table.

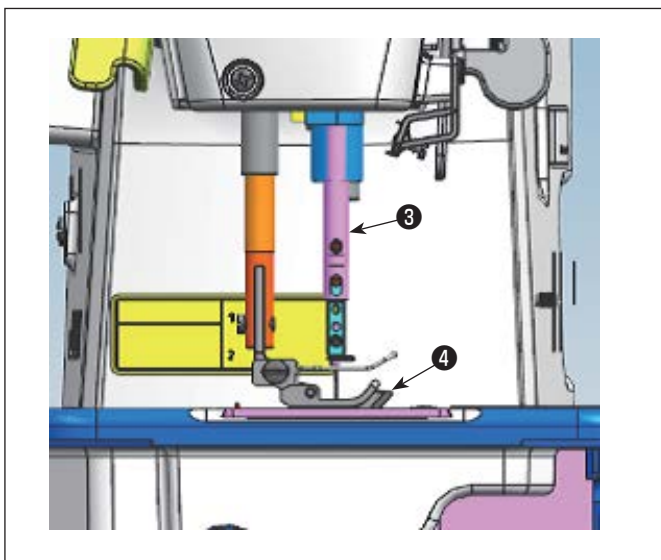
(3) Adjusting the height of the knee lifter



- 1) The standard height of the presser foot lifted by the knee lifter is 12 mm.
Using the knee lifter adjustment screw ①, the presser foot height can be adjusted up to a maximum of 13 mm.

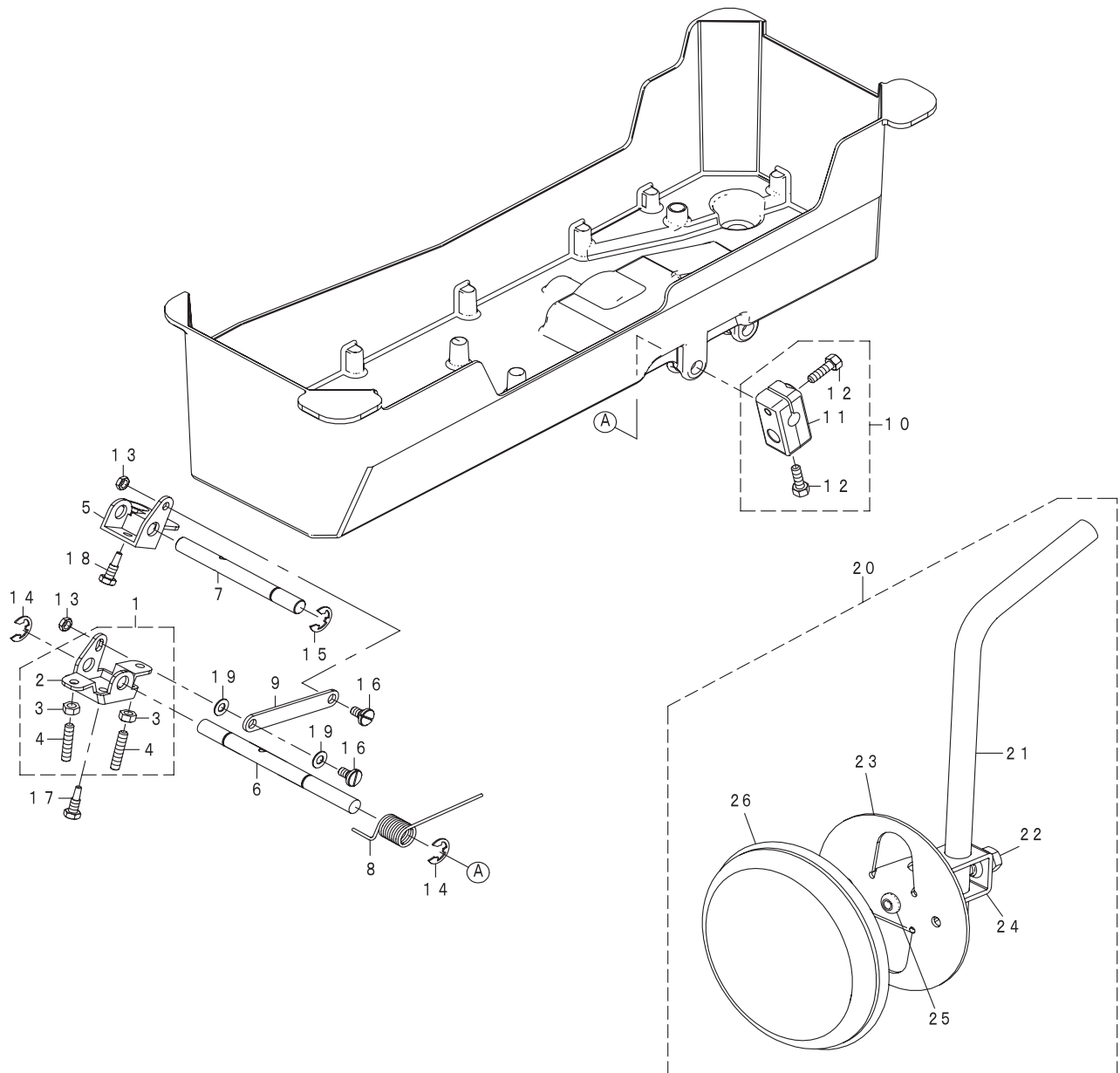


- 2) Loosen nut ② using a No. 10 wrench, and adjust the protruding amount H of the adjustment screw ① to set the presser foot height.
The larger the H value, the smaller the presser foot lifting height becomes.



Do not operate the sewing machine while the presser foot ④ is lifted, as the needle bar ③ and the presser foot ④ may come into contact with each other.

4. Parts list



REF.NO	NOTE	PART NO	DESCRIPTION	品 名	Qty
1		236-39156	BRACKET ASM.	膝上げ回転腕 (組)	1
2		236-39107	BRACKET	膝上げ回転腕	(1)
3		NM-6060001-SE	NUT M6	六角ナット M6 1種	(2)
4		SM-8063012-TR	SCREW M6 L=30	止めねじ	(2)
5		236-39206	CONNECTING ROT	膝上げ作動腕	1
6		236-39305	KNEE PRESS ROD	膝当て横軸	1
7		236-39404	SHAFT	膝上げ作動軸	1
8		236-39503	SPRING	膝上げ回転腕ばね	1
9		236-39602	CONNECTING ROD	膝上げ連結ロッド	1
10		229-32453	BRACKET ASM.	膝当て立て軸取付腕 (組)	1
11		229-32404	BRACKET	膝当て立て軸取付腕	(1)
12		229-34707	SCREW	膝当て立て軸取付腕締めねじ	(2)
13		NS-6150310-SP	NUT 15/64-28	六角ナット 15/64-28	2
14		RE-1000000-K0	E-RING 10	E形止め輪 10	2
15		RE-1000000-K0	E-RING 10	E形止め輪 10	1
16		SD-0720331-SP	HINGE SCREW D=7.24 H=3.3	段ねじ D=7.24 H=3.3	2
17		SM-9061853-SR	SCREW M6 L=17.5	六角ボルト	1
18		SM-9061853-SR	SCREW M6 L=17.5	六角ボルト	1
19		WP-0650876-SD	WASHER 6.5X13X0.8	平座金 6.5X13X0.8	2
20		229-34251	KNEE PAD PLATE ASM.	膝当て板 (組)	1
21		229-34608	KNEE PAD UPRIGHT SHAFT	膝当て縦軸	(1)
22		SM-9061203-SE	SCREW M6 L=12	六角ボルト M6 L=12	(1)
23		229-34202	KNEE PAD PLATE	膝当て板	(1)
24		229-34301	KNEE PAD PLATE SUPPORT	膝当て板支え	(1)
25		229-34400	KNEE PAD PLATE RUBBER	膝当て板ゴム	(1)
26		229-34509	KNEE PAD PLATE COVER	膝当て板カバー	(1)