



What is Solenoid? How do I use it?

This book, illustrated by a Solenoid manufacturer, Takaha Kiko provides introductory explanation on how to use a Solenoid.

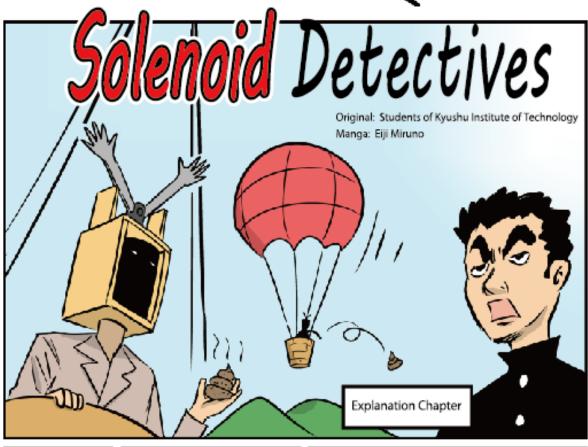
This will allow you to select a Solenoid and use it with ease.

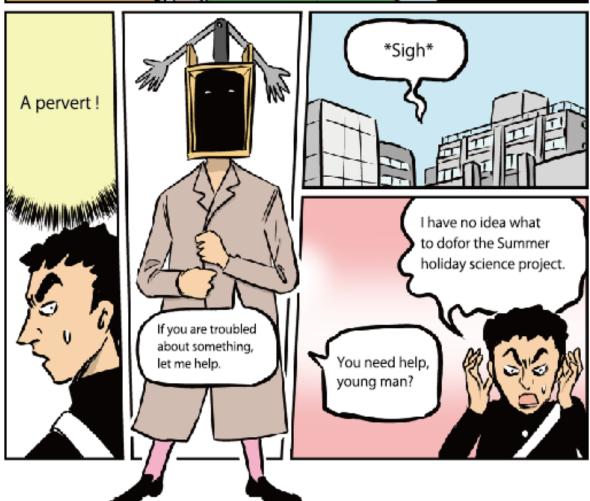
Original Work: Students of Kyushu Institute of Technology Internship students, who did not know anything about Solenoid. Original work was created after hard work of investigating into Solenoid. It is intended so that a student at the 3rd year of junior school can understand.

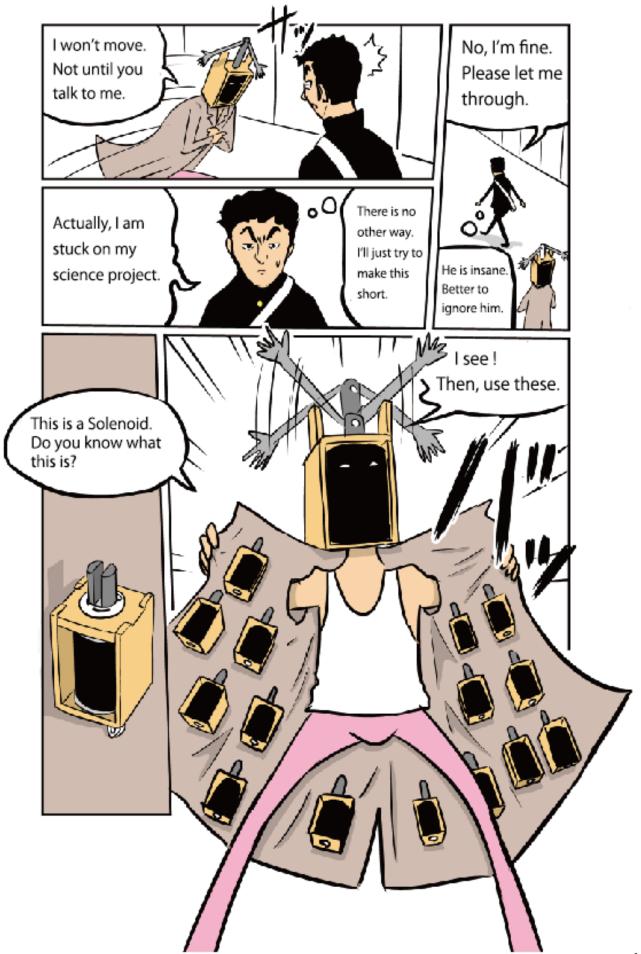
Manga Work: Eiji Miruno

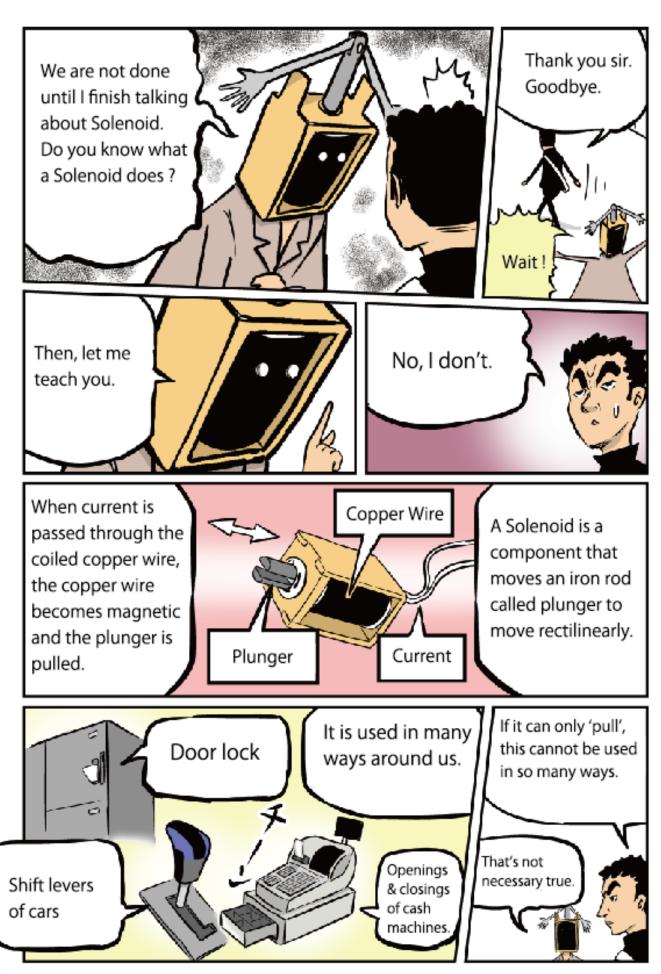
A renowned manga artist, famous for his works in the technical manufacturing industries, such as "Crying on Astringent Technology". With his unique perspective that depicts the manufacturing industries, his works are very popular. He has been collaborating with Takaha Kiko for the "Solenoid Contest" and "Poster Contest".

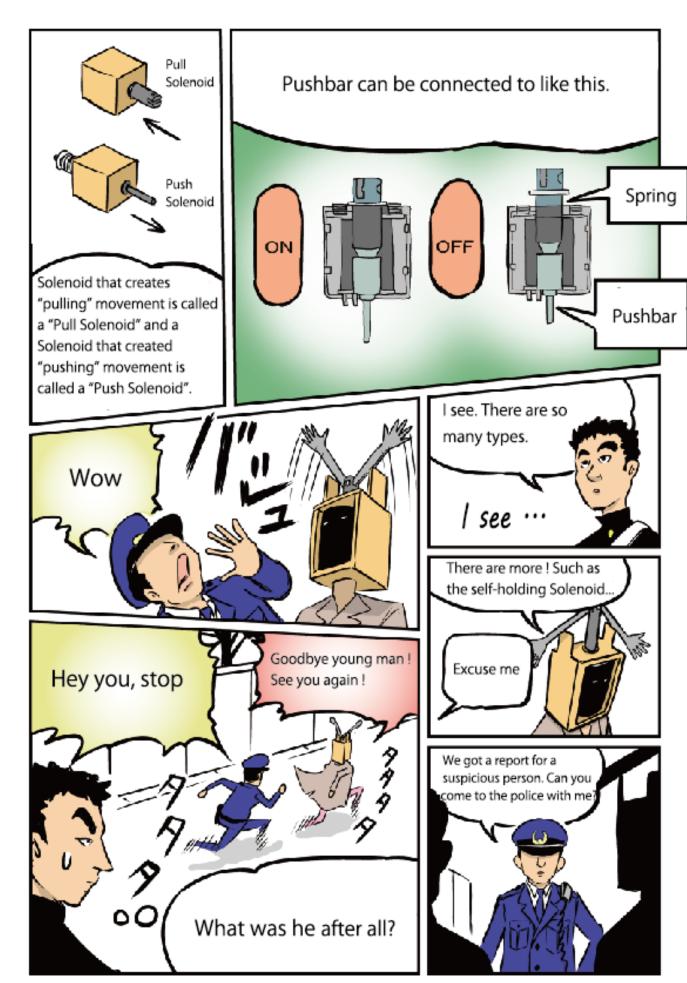












Selection Chapter



What should I make for the project ?



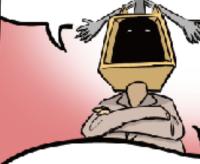
That is not a good selection method.

Wow! There are too many types. I guess! just go with the cheapest one.

Is there any problem with that? As long as it works, then it does not matter.



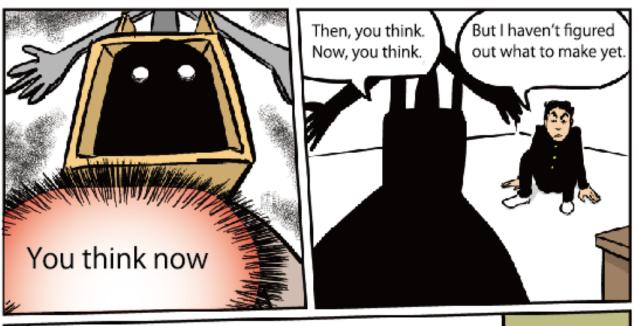
I told you that we will see again. I haven't even finished talking yet.

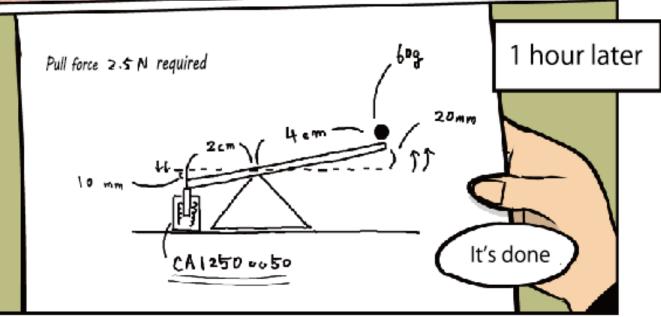


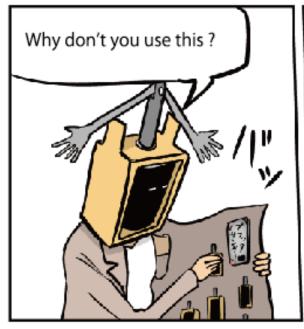
Young man, you were about to select a Solenoid just by its price.



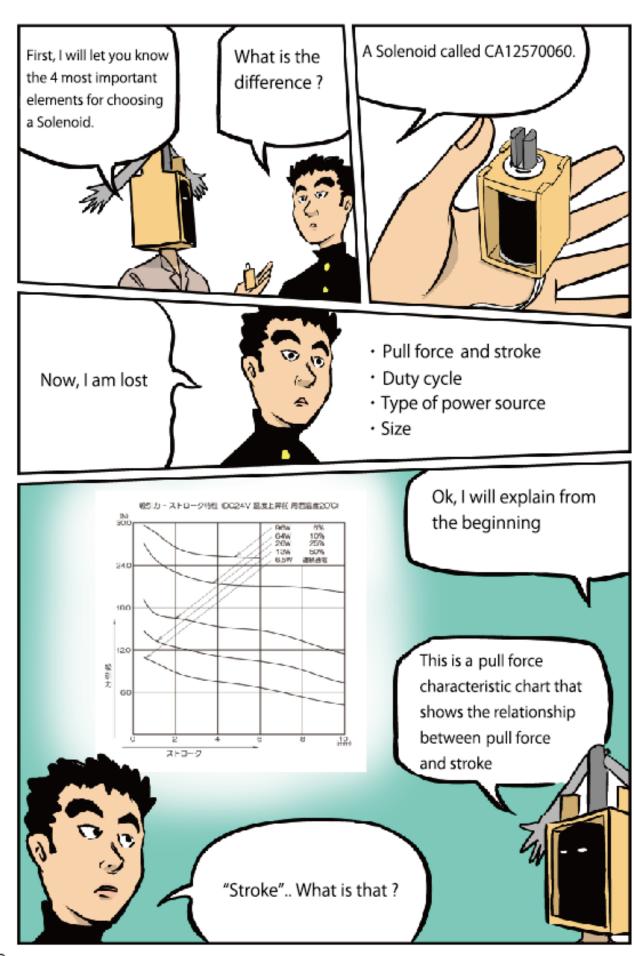
A Solenoid has to be selected with its purpose, otherwise it is meaningless! It is like choosing a different thickness lead for your mechanical pencil.

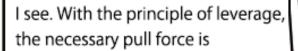




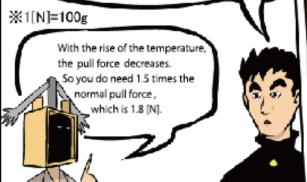


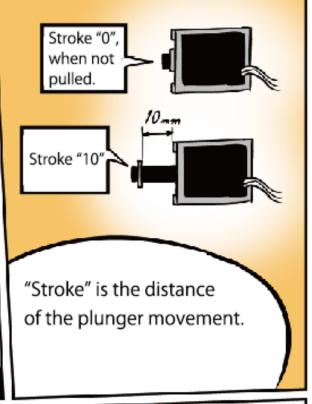






 $0.6[N] \times 4 [cm] \div 2 [cm] = 1.2 [N]$ Stroke 10mm. So it meets the condition.





That's right! The figure displayed with % at the upper right of the table is the duty cycle.

Certain duty cycle has

Certain duty cycle has limitation on the amount of electricity you can transmit in one go, so you better watch out.



1096

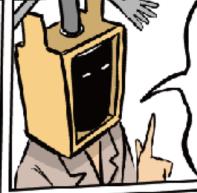
25%

30R)

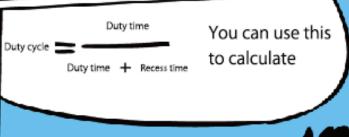
2分

50%

7分

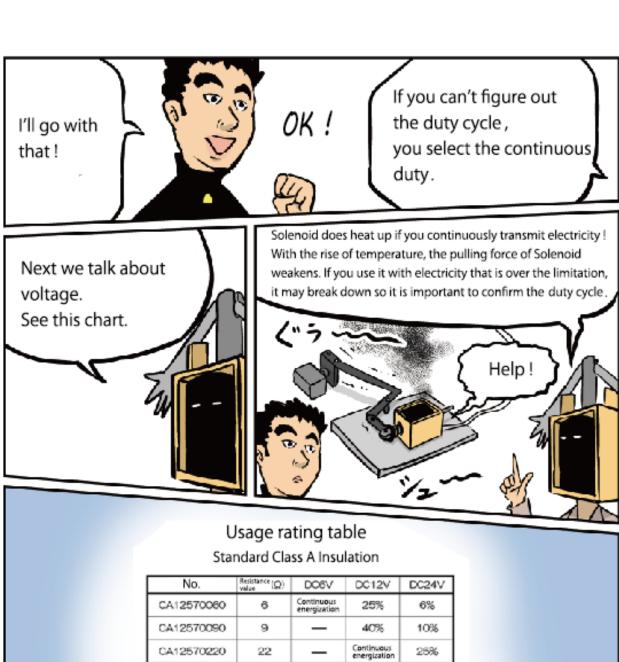


Next, we talk about duty cycle. This is the time required to transmit electricity to Solenoid.



Say you transmit electricity with the duty cycle of 50% for 1 min, do I need to the recess time of 1 min as well?





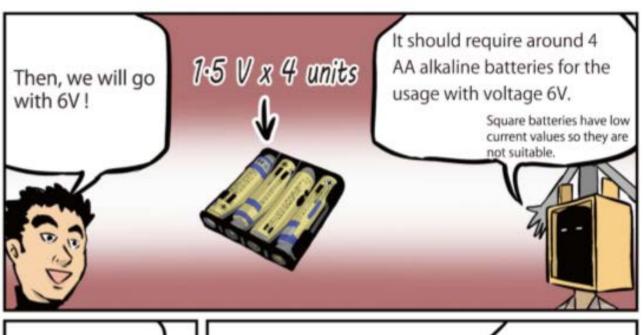
ı	No.	Resistance (Ω)	D06V	DC12V	DC24V
	CA12570080	6	Continuous energization	25%	6%
	CA12570090	9	_	40%	10%
	CA12570220	22	_	Continuous energization	25%
	CA12570440	44		_	50%
	CA12570880	88	_	_	Continuous energization

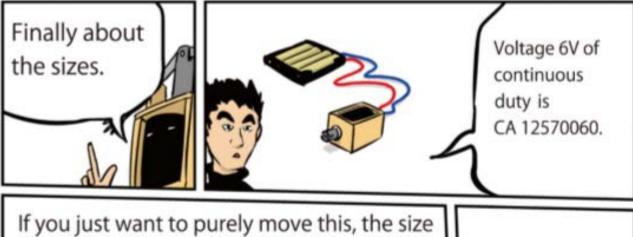
This is the usage rating table, used to determine the details for Solenoid.

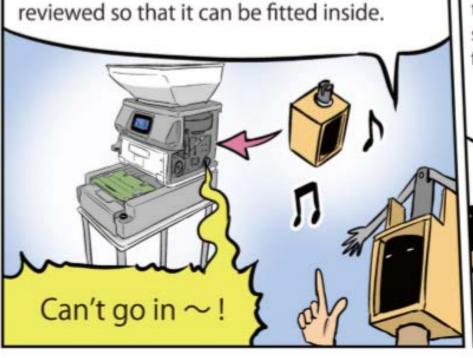


It says DC6V, DC12V and DC24V under the voltage.







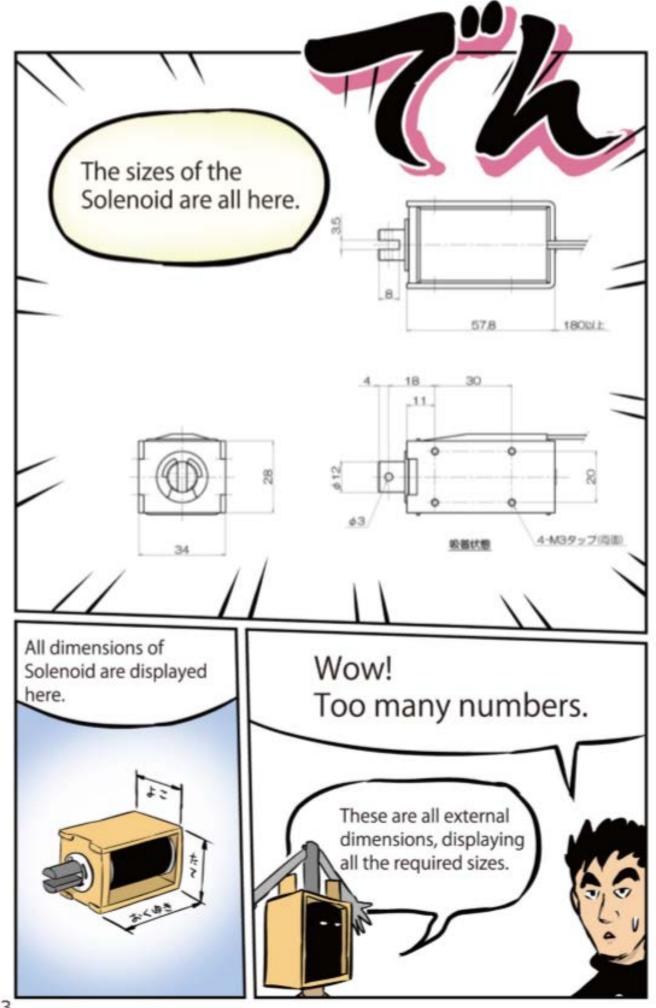


doesn't matter. But Solenoids are usually

inside machineries so the sizes must be

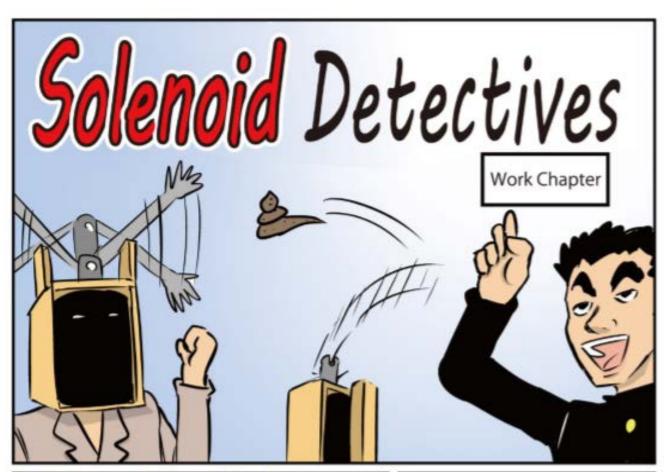
But it has been narrowed down to one so there should be no need for that.









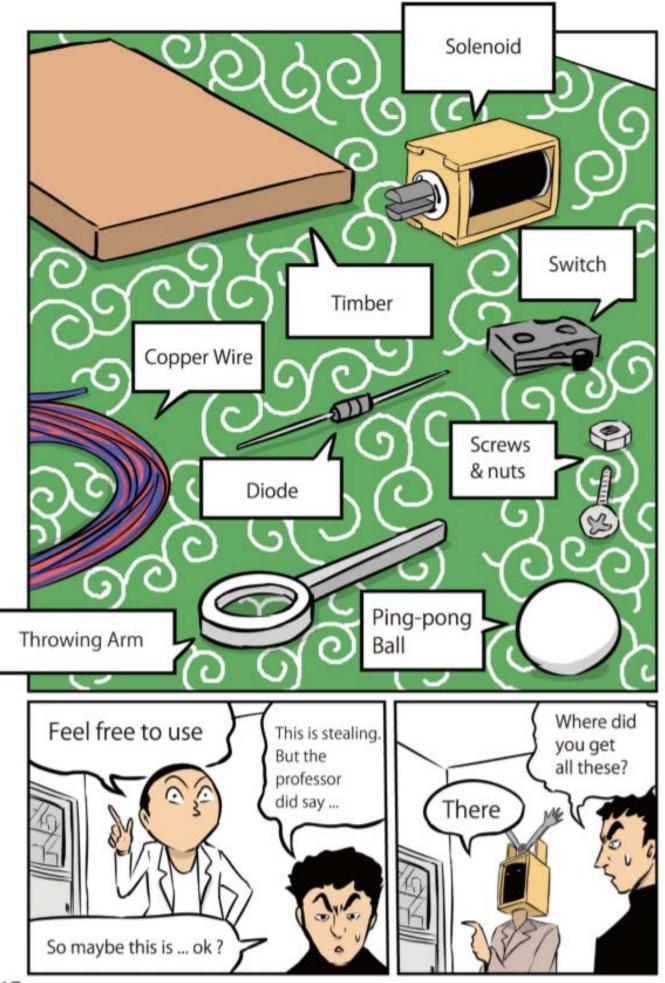




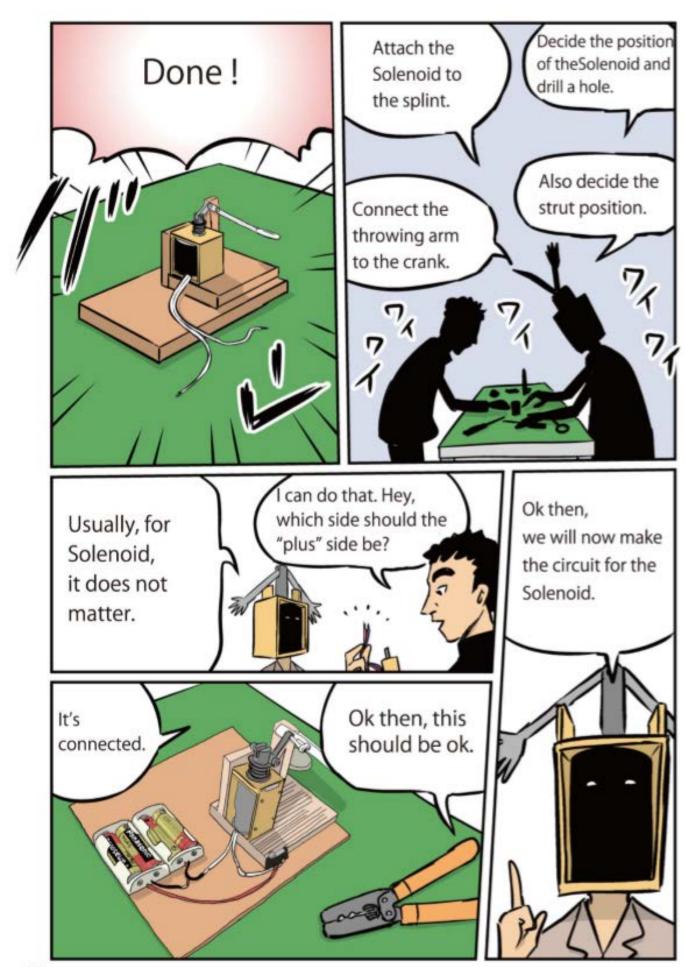


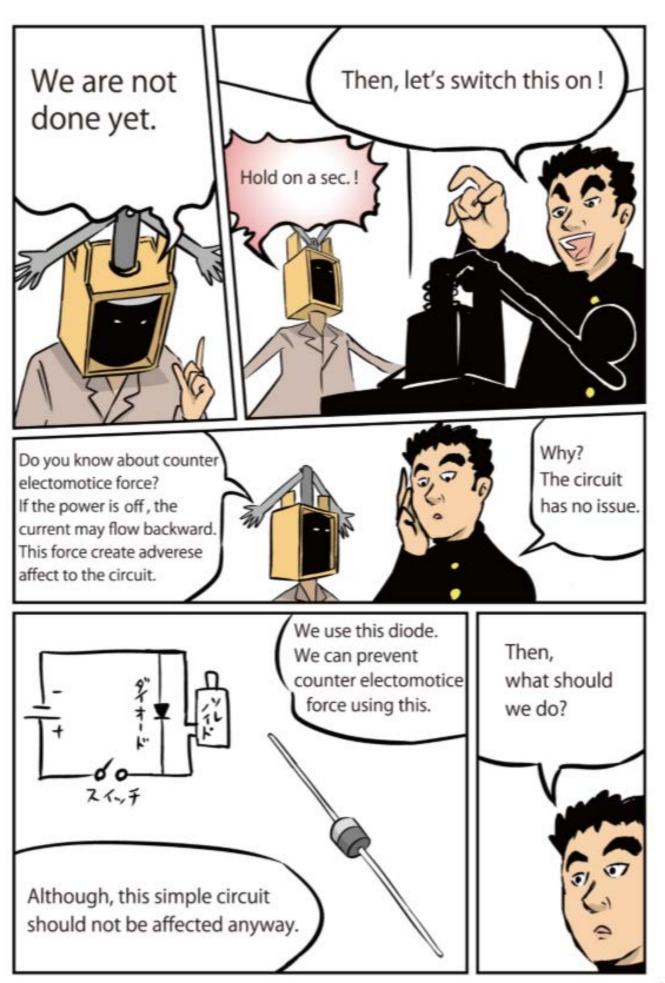




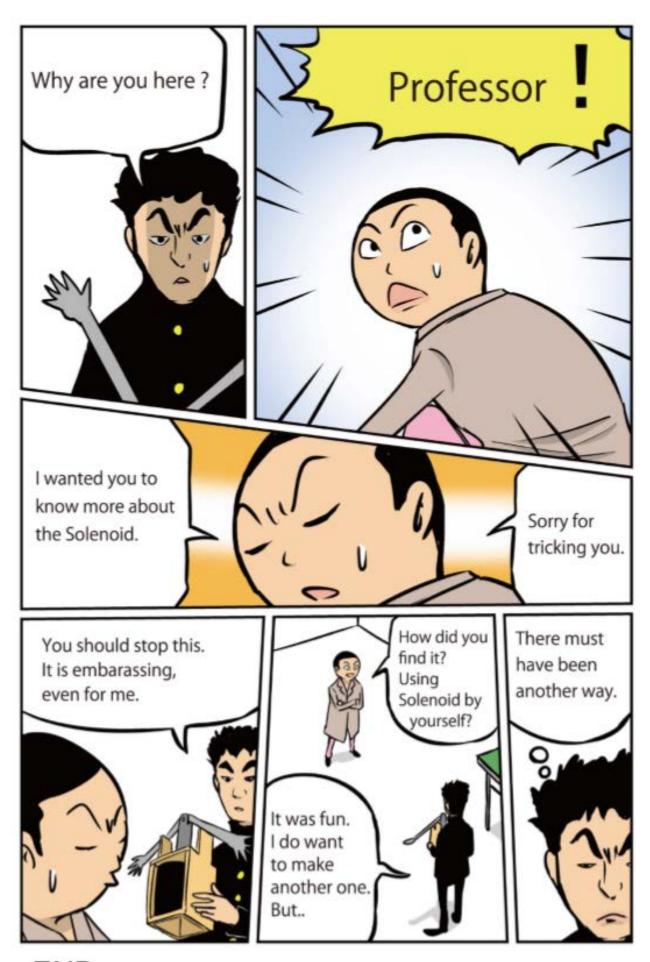












END

Solenoid Detectives

Original Concept Students of Kyushu Institute of Technology

Manga Work Eiji Minoru

Published by TAKAHA KIKO CO.,LTD.

958-9 Ariyasu, lizuka, Fukuoka Prefecture 820-0111, Japan

Telephone 0948 - 82 - 3222

Website www.takaha.co.jp



For unique works using Solenoid,

Visit our website! www.takaha.co.jp/solcon/

Visit us on our online direct sales shopping site by Takaha Kiko, for Solenoid.

www.takaha.co.jp/product/



269 types of Solenoid Same day shipping.

Free Download for 3D CAD Data