

# Accessory Assembly Instruction – LP28

(For IGES and STEP files)

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General Instructions:

- The files referred to in this document are to be used with the LP28 positioner. The standard LP28 positioner can be obtained by downloading the LP28 .igs (IGES) or .stp (STEP) from Daedal's website, [www.daedalpositioning.com](http://www.daedalpositioning.com).
- All files are in .zip format. When unzipping files, be sure to note their location and unzip all files to that location.
- Some of the accessory files are assemblies. These files must be imported as assemblies when using .stp (STEP) format.
- Follow the individual accessory instructions in the following pages.

## NEMA 11 Motor

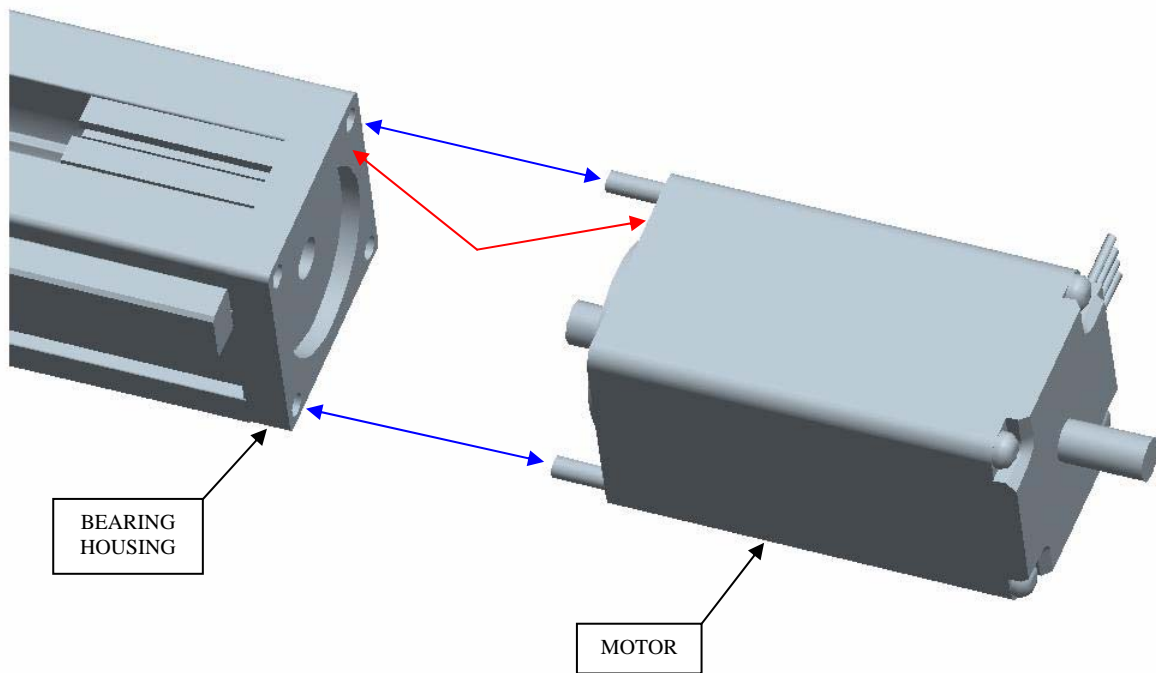
Accessory files to be used:

LP28-M111x\_MOTOR.igs  
LP28-M132x\_MOTOR.igs

LP28-M111x\_MOTOR.stp  
LP28-M132x\_MOTOR.stp

Instructions:

1. Align holes in bearing housing with motor screws, shown with blue arrows.
2. Mate the surfaces of the bearing housing and the motor, shown with red arrows.  
(Use the back surface of the motor, surface not shown in view below.)



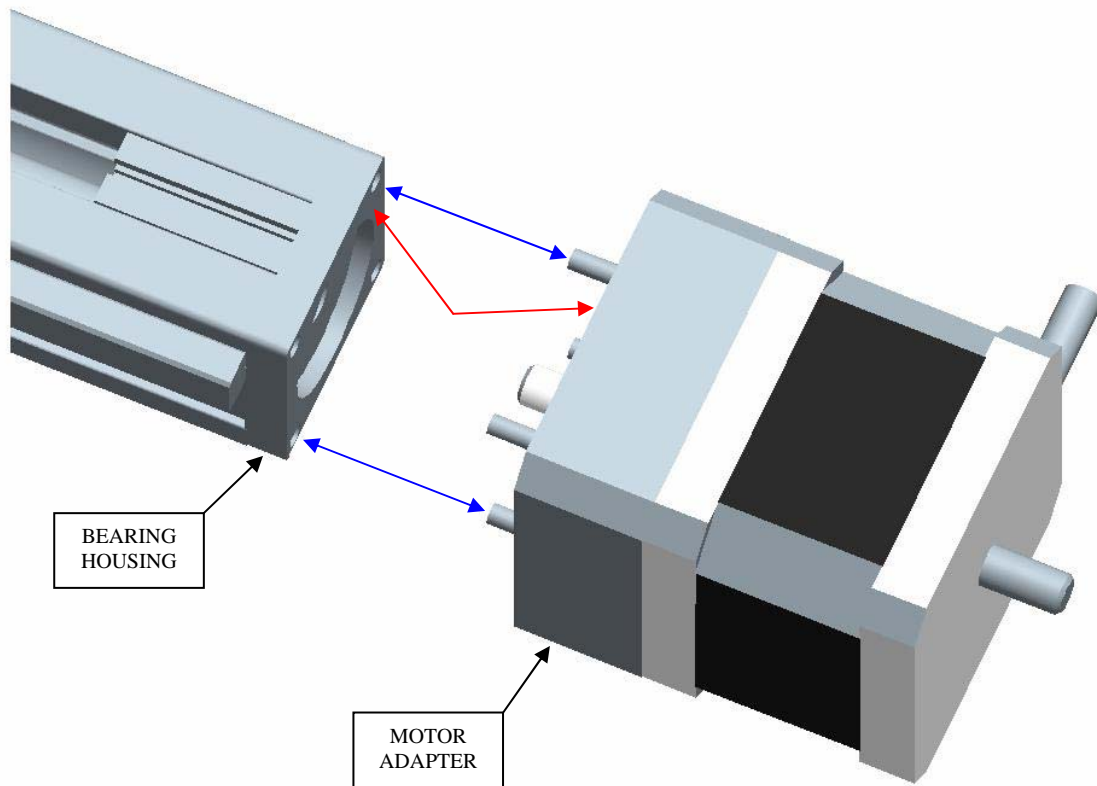
## NEMA 17 Motor

Accessory files to be used:  
LP28-M712x\_MOTOR.igs

LP28-M712x\_MOTOR.stp

### Instructions:

1. Align holes in bearing housing with motor adapter screws, shown with blue arrows.
2. Mate the surfaces of the bearing housing and the motor adapter, shown with red arrows. (Use the back surface of the motor adapter, surface not shown in view below.)



# Home Switch

Accessory files to be used:

LP28\_HOME\_SWITCH.igs

LP28\_HOME\_SWITCH.stp

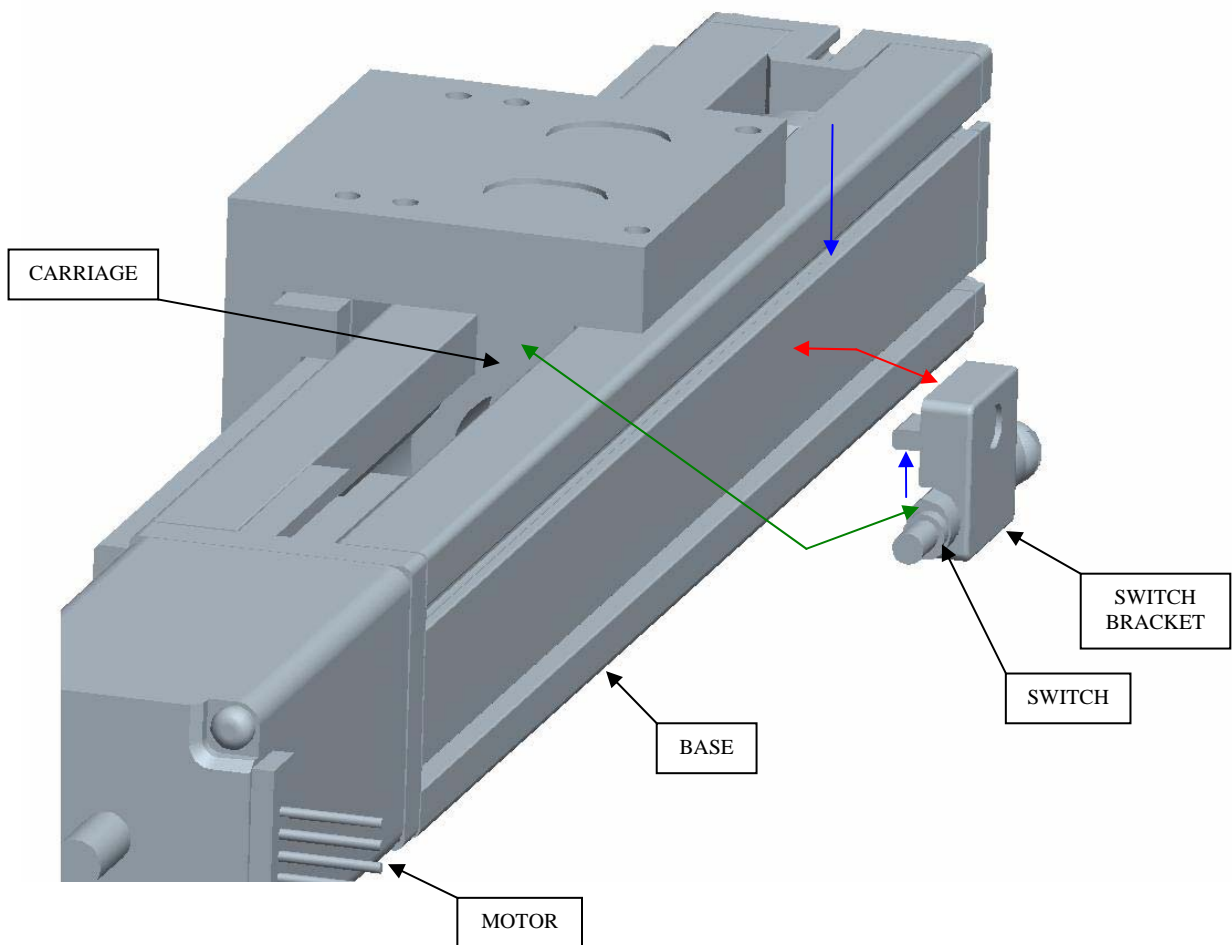
Instructions:

1. Mate the surfaces of the base T-slot and switch bracket tab, shown with blue arrows. (Use bottom surface of switch bracket tab, surface not shown in view below.)
2. Mate the surfaces of the base and switch bracket, shown with red arrows (Use back surface of switch bracket, surface not shown in view below.)
3. Align the surfaces of the carriage and switch, shown with green arrows. Then offset the switch 5.5mm toward the motor to show home at mid-travel.

Note:

With T0025 unit (25mm travel), home cannot be used if limit switches are used.

With T0050 unit (50mm travel), home cannot be located at mid-travel if limit switches are used.



## Limit Switches

Accessory files to be used:

LP28-T###\_LIMIT\_SWITCHES.igs

LP28-T###\_LIMIT\_SWITCHES.stp

Substitute the travel code, 0025, 0050, etc. for the #### characters.

Instructions:

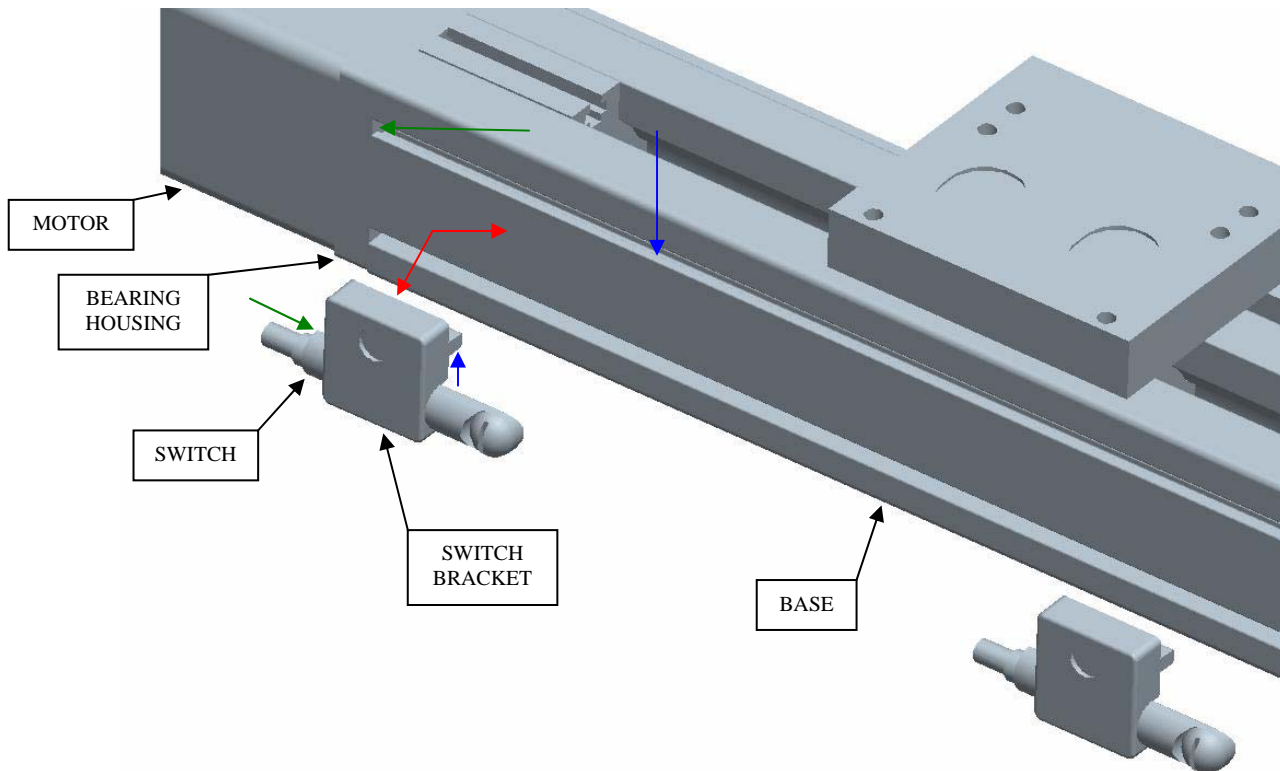
1. Mate the surfaces of the base T-slot and switch bracket tab, shown with blue arrows. (Use bottom surface of switch bracket tab, surface not shown in view below.)
2. Mate the surfaces of the base and switch bracket, shown with red arrows (Use back surface of switch bracket, surface not shown in view below.)
3. Mate the surfaces of the bearing housing and switch, shown with green arrows. (Use back surface of switch, surface not shown in view below.) Then offset the switch 16.5mm away from the motor to show limits at ends of travel.

Note:

With T0005 unit (5mm travel), limits cannot be used.

With T0025 unit (25mm travel), limits cannot be used if home switch is used.

If assembling limits to idler unit, reference end cap instead of bearing housing.



## Toe Clamp

Accessory files to be used:  
LP28\_TOE\_CLAMP.igs

LP28\_TOE\_CLAMP.stp

### Instructions:

1. Mate the surfaces of the base and toe clamp, shown with blue arrows. (Use bottom surface of toe clamp, surface not shown in view below.)
2. Mate the surface of the toe clamp tangent to the surface of the base, shown with red arrows.

### Note:

Toe clamps can be positioned anywhere along the length of the base.

