

# Appendix B - Technical Notes

## Screwdrivers

Our fasteners are manufactured using high quality materials with emphasis on the forming of the drive recess to meet design specifications. We urge customers to exercise care to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material. We also suggest slightly de-burring the driver tools to remove extreme sharp edges to minimize cutting of the coating materials. This can be achieved by dressing the tool bit with a wire brush as a locksmith does to a newly cut key.

## PAN-L-SCREW Tightening Torque

Care must be exercised during installation of PAN-L-SCREWS to prevent over-tightening due to the nature of the nylon washer material. Over-tightening is possible and results in deformed washers. Several factors are involved with determining the proper installation torque, including PAN-L-SCREW size, clearance hole size and thread fit. In most applications we recommend tightening until snug and then tightening an additional 1/4 to 1/2 turn. The compression effect of the nylon washer between the screw head and panel will provide a self-locking feature to prevent vibration from loosening the screw in most applications.



All products are subjected to our documented ISO 9001:2008 and AS9100C quality procedures and are lot-traceable.

## Material Handling

Parts are carefully packaged before shipment to customers. Parts are bagged, labeled, tightly wrapped, and properly boxed to protect the color coating during shipment. Package quantities are determined by fastener size to provide proper protection. We recommend that parts remain in their original packing material until just before use. If it is necessary to re-package, then necessary care must be exercised to minimize damage from threads rubbing against color-coated surfaces. The color coating material is very durable but it is a coated surface and can be damaged if proper care is not exercised.

## Nominal Thread Sizes

To conform to accepted industry standard practices, the nominal thread sizes for machine threads which are specified in this catalog (for non-metric items) are called out in decimal inches, instead of using the screw number or fractional diameter as was customary in the past. The following table gives the equivalent of the screw number / fractional size to the decimal size:

SCREW DIAMETER (NUMBER or FRACTIONAL SIZE)	DECIMAL SIZE
2	0.0860
4	0.1120
6	0.1380
8	0.1640
10	0.1900
12	0.2160
14	0.2500
5/16	0.3125
3/8	0.3750