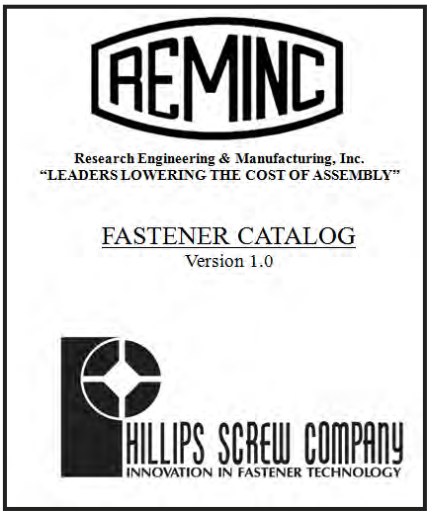
Providing Advanced Technology
to the Fastener Industry

ISSUE 2 - 2011

REMINC Product Part Number Fastener Catalog, by Ken Gomes



REMINC would like to announce our recently developed part numbering system, outlined in two special catalogs. These catalogs contain product drawings for a range of fastener size and length combinations, as well as heat treatment, material and quality specifications.

The purpose of these catalogs is to provide reference standards for REMINC fastener designs to be used in a variety of applications, such as business equipment, small consumer electronics, televisions, monitors, servers, chassis and cabinets, and in various materials including aluminum, soft alloys, thin sheet metal, plastics and magnesium.

The primary benefit of these catalogs is simplifying the ordering of cost-saving value-added fasteners from distributors or manufacturing licensees. This benefit is achieved by making it easier to specify a fastener design, since all part information is located in one place. Secondly, licensed manufacturers' awareness of the standards will make the part easier to produce while maintaining quality standards. Finally, the designs can be easily replicated along with a customer bill of materials to maintain consistency.

REMINC's first set of catalogs is aimed at products and screw sizes appropriate for appliance and electronics assemblers. FASTITE® 2000™, TAPTITE 2000® and REMFORM® fasteners provide value-added solutions for assembly problems which commonly occur in the appliance and electronics industries.

Over the past several years, the appliance and electronics industries have minimized the size and weight of their assembled products by reducing the thickness of sheet metal components. High-strength low-alloy steel is being used to compensate for this reduced thickness. Harder sheet steel presents a challenge for standard sheet metal thread forming screws in many applications. Presently it is not uncommon for 0.5mm thick sheet metal to be used in a typical assembly. FASTITE® 2000™ screws are the solution to the increased use of thinner, harder sheet metal.

Numerous components are manufactured from zinc, aluminum and magnesium die castings. TAPTITE 2000® screws can be used in these materials in "as cast" holes, lowering the in-place cost of components by eliminating the cost of drilling and tapping.

REMFORM® thread forming screws, with their unique asymmetrical thread form, are ideal for use in today's alloy and blended plastics. Their asymmetrical thread minimizes radial hoop stress which reduces boss bursting.

Our recently created appliance and electronics market fastener catalogs are available in two versions.

The first version features the REMINC products previously referenced, with special drive systems licensed by Phillips Screw Company. This catalog provides value-added thread designs with problem-solving drive systems such as the Phillips Square-Driv®, Phillips II® and Mortorq® Super recesses. This catalog contains screw sizes ranging from M1 – M10 in metric and #2 – 5/16 in inch. The second catalog version features the same REMINC products but with a variety of standard head designs and drive systems.

Please contact us to receive copies of these catalogs and any further information.

REMINC STAFF

Laurie Mandly	Chairman & CEO	Suzanne Lilly	Administrator - Intellectual Properties
Tim Egan	President	Beth Rondeau	Director of Financial Administration
Ken Gomes	VP - Engineering/Product Development	Marena Boyadjian	Executive Assistant
John Reynolds	Manager - Fastener Engineering	Ralph Barton	Associate
Dennis Boyer	Senior Project Engineer	Don Fosmoen	Representative
Bob Budziszek	Lab Technician		

Chairman's Corner - Persistence, by Laurie Mandly

Recently, I reflected on how our company was awarded the first TAPTITE® Patent and what lesson was learned from that experience. In 1960 a major U.S automobile manufacturer advertised they were looking for a new fastener design, one that would thread-form like a tapping screw, but function in heavier-gauge materials. A young REMINC engineer, Harvey Phipard, accepted this challenge, applied his knowledge and experience and developed the first TAPTITE® fastener that would thread-form into heavy-gauge materials. In 1962 Phipard and REMINC applied for patents in the United States and Europe. The applications for the manufacturing method and tooling were accepted in the United States and Europe, but the application for the fastener itself was accepted only in Europe, not in the United States. The U.S. Patent Office determined that Phipard's thread-forming fastener was not new but simply prior art, as thread-forming taps had been patented previously. This rejection did not deter Phipard or REMINC but instead made them more determined than ever to obtain patent protection in the United States. They set out to prove that the application of thread-forming to a fastener was indeed a novel design and worthy of a patent. The Patent Office's rejection was eventually appealed several times, but repeatedly rejected over a period of 13 years! The case was finally brought before the U.S Court of Patent & Customs Appeals in 1975, and after a 15-minute oral argument by the REMINC attorney, three claims were awarded. Phipard and REMINC finally had their TAPTITE® fastener patented! Their persistence had paid off.

I would argue that persistence is a critical element, one necessary to achieve success in the promotion of proprietary fastener designs, such as those belonging to the TAPTITE® and REMFORM® families. This premise is worth noting, especially by those licensees new to our Program, and it also warrants the attention of those companies that have been Program contributors for several years.

At REMINC, we know from our 53 year history, that once an objective is targeted, determination and persistence are important components of any successful business strategy utilized to achieve the objective.

When joining our Program, it might at first appear to be rather simple to manufacture and sell a range of patented and trademarked fasteners, products which have been recognized and accepted by industry globally for decades. But as we know, even if the road to success is well paved, there may still be unforeseen curves and hills to navigate.

Our TAPTITE® and REMFORM® fastener designs are well proven to be vehicles utilized to lower the cost of assembly. However, not everyone is either aware of our technology and track record of success and accomplishment or convinced by it. Therefore a licensee typically has to follow a time-tested procedure comprised of several component steps. First, the licensee should be prepared to make a presentation to the prospective end-user explaining the technology, to be followed by an application study and analysis identifying assembly opportunities with potential cost saving potential.

Next it is usually necessary to procure tooling, produce samples and then integrate them into an identified assembly process in order to validate the merits and benefits of the proprietary design. After trials, it may be necessary to make minor design alterations and/or make other assembly modifications to obtain a perfectly assembled joint and one which achieves the maximum cost benefit.

Once proven beyond any doubt, production-run parts need to be manufactured with special attention paid to our technical specifications. Then, of course, an on-time fastener delivery to the end-user is essential to meet the prescribed assembly-line schedule. Once smoothly operational, some follow-up is generally required to monitor assembly performance and solve any unexpected problems. All of this aforementioned process requires the oversight of qualified technical personnel, who would have undergone a thorough education in our technology. And as these experienced employees are promoted, retire or leave the licensee's employ for any reason, their replacements need to be educated and trained. We have found that education and training is a very important aspect of our Licensing Program and one that is essential to ensure success.

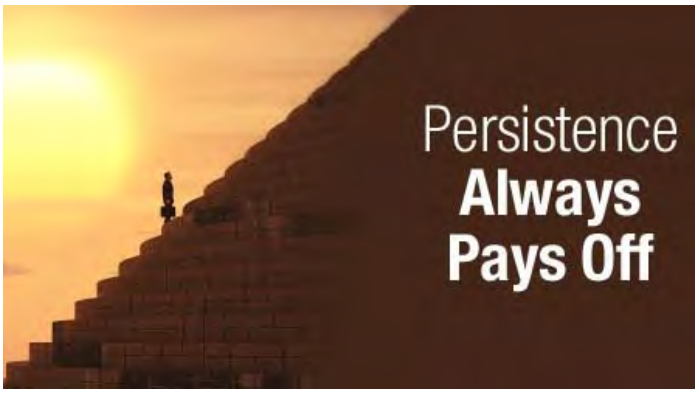
Due in part, to our licensee support, end-users can source TAPTITE® and REMFORM® fasteners from any licensee globally and be assured of obtaining quality products. In addition, our licensed products have patent and trademark protection in most industrialized countries.

Each aforementioned point is important and all play a key role in winning the business for licensed products. But persistence has proven to be perhaps the most important single element. As licensees progress with our Program, they will undoubtedly face several challenges and even some set-backs over time; but our experience has shown that determination and persistence can overcome these obstacles.

Persistence . . .

"Nothing in this world can take the place of persistence. Talent will not; nothing is more common than unsuccessful men with talent. Genius will not; unrewarded genius is almost a proverb. Education will not; the world is full of educated derelicts. Persistence and determination alone are omnipotent."

~ Calvin Coolidge ~
30th U.S. President



Comparing Genuine TAPTITE® and REMFORM® Fasteners with Look-Alike Products

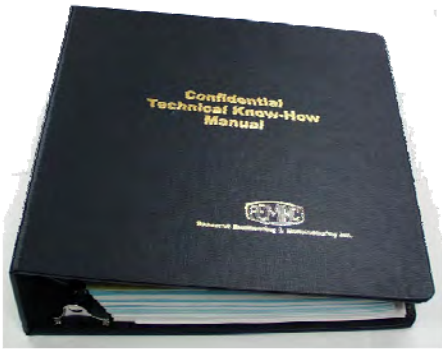
There may be many variations among genuine trademarked fasteners and look-alike copies, but some of the more common variations are outlined below.

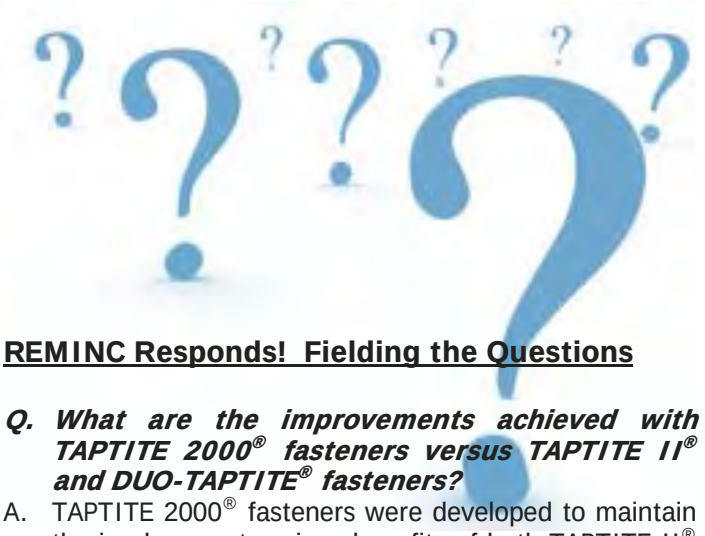
Genuine licensed products are manufactured and sold in strict accordance with REMINC Technical Specifications, utilizing our proprietary confidential technical information and know-how. They are produced from tooling furnished by authorized and qualified tool suppliers guaranteeing uniformity.

This provides the end-user the assurance that its purchased product will perform to a high and uniform level. In addition, genuine trademarked products are dimensionally the same when purchased from any one of our global licensees. They will be interchangeable with fasteners from any other licensed producers. They are guaranteed to perform in your application as promised and expected because they have been properly designed to meet the requirements of your specific application.

Genuine licensed products are produced and sold by the world's most respected and trusted fastener companies and backed by the REMINC technical support staff. Should unexpected problems arise, there is a team of experts, able and ready to address the issue and provide a solution.

Look-alike products are typically reverse-engineered by less reliable manufacturers or distributors and sold on the basis of price, not quality or performance. In addition, in many cases they are being produced illegally. Any deviation from our technical specifications in terms of material, dimensions and heat treatment can materially affect a fastener's performance and credibility. By contrast, genuine trademarked fasteners will always provide superior performance and live up to their cost-savings promise.





REMINC Responds! Fielding the Questions

Q. What are the improvements achieved with TAPTITE 2000® fasteners versus TAPTITE II® and DUO-TAPTITE® fasteners?

A. TAPTITE 2000® fasteners were developed to maintain the in-place cost savings benefits of both TAPTITE II® and DUO-TAPTITE® fasteners while combining the performance benefits of both into one design, with the addition of an innovative thread design – the Radius Profile™ Thread. The result is a new generation fastener, one which provides excellent mechanical, assembly and ergonomic characteristics, surpassed by no other technology. The goal when developing the TAPTITE 2000® fastener was to develop a fastener that would generate lower thread forming torque than the TAPTITE II® fastener, while maintaining or improving the drive-to-strip ratio developed with a DUO-TAPTITE® fastener. After numerous design alterations and extensive testing, we were able to develop the required geometry required to achieve these goals.

Q. What are the improvements achieved with FASTITE® 2000™ screws versus EXTRUDE-TITE® screws?

A. Listed below are the goals we were trying to achieve, with the features added to achieve these goals in blue.

a. Increase assembly torque values.
   Undercut feature added under head to increase assembly failure torque. Optional serrations added under head to further increase failure torque and resistance to loosening.

b. Eliminate the disadvantage of sheet metal deflection.
   Radius Profile™ thread design combined with a twin-helix angle to provide a mating thread system whereby diametrically opposed threads are engaged.

c. Ensure the screw head seats squarely to the nut member.
   Twin-Helix feature provides straight starting stability resulting in square seating upon assembly.

d. Extrude sheet metal and provide increased thread engagement.
   A tapered thread root adjacent to the screw head to maintain thread major diameter close to the head causes additional forward and backward extrusion providing increased thread engagement upon assembly.

REMINC Training / Brochure Request Form

Name: _____

Company: _____

Address: _____

_____

Telephone: _____

Fax: _____

E-mail: _____

Please Check:

- ☐ Contact me regarding a training visit
- ☐ REMINC General Products Catalog
- ☐ TAPTITE 2000® Products Application Guide
- ☐ TAPTITE 2000® Product Brochure
- ☐ REMFORM® Product Brochure
- ☐ TRU-START® Product Brochure
- ☐ FASTITE® 2000™ Product Brochure
- ☐ "54 Ways TAPTITE 2000® Fasteners Lower the Cost of Assembly" Request Form
- ☐ Receive Newsletter by e-mail

Mail this form to REMINC at 55 Hammarlund Way, Tech II, Middletown, RI 02842 USA or fax it to (401) 841-5008

The following are patented products and/or trademarks licensed by REMINC:
TAPTITE®, TAPTITE II®, TYPE-TT®, DUO-TAPTITE®, CORFLEX®, PLASTITE®, POWERLOK®, TRILOBULAR™, KLEERTITE®, REMFORM®, THE CONTROLLABLE PRODUCT®, ENGINEERED FASTENINGS®, EXTRUDE-TITE®, KLEERLOK®, MAGTITE®, TAPTITE 2000®, FASTITE® 2000™, TAPTITE 2K®, TYPE TT 2000®, TYPE TT 2K®, TAPTITE 2000 & DESIGN®

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1958 - 2011
Celebrating 53 Years Lowering the *Cost* of Assembly