

# Marketplace

YOUR ELECTRICAL ASSET

SEPTEMBER-OCTOBER 2018

## TAKE YOUR SEAT AT THE FASTEST EVENT IN MELBOURNE

Purchase Legrand or HPM products to go into the draw to win one of ten places

SEE PAGE 7

 legrand



10  
SEATS TO  
BE WON

## WIN A GREAT AUSTRALIAN TENNIS EXPERIENCE

Purchase Prysmian cable products and you could join us for finals' week in Melbourne

SEE PAGE 5

10  
SPOTS TO  
BE WON

 PRYSMIAN




**Editorials:**  
**Automation  
and Lighting  
Control**

See Page 10

**UPS's: Keeping  
the Power On**

See Page 12

Read more at [marketplacemagazine.co.nz](http://marketplacemagazine.co.nz)

**POWERBASE** 



# MORE SUCCESSFUL POWERBASE PROMOS



To promote their LED Floodlights, Powerbase and Philips ran a promotion for contractors to win one of 10x 55" Philips UHD Slim LED Smart TV's, each worth \$1,599.00.

Shown is Steve Arker (left) receiving his TV from Rob Hart of IES Canterbury.

With the support of

**PHILIPS**



## FLUKE TOOL KITS WINNER

Contractors were asked to purchase a Fluke T-6 Electrical Tester to win one of four Ultimate Fluke Tool Kits worth \$3,500 each. At left, a very happy winner from R Redpaths, Wanaka.

With the support of

**CSL**



## WIN YOUR OWN GOLD

For every gold medal our athletes bought home from Brisbane, Powerbase and their supply partners Schneider-Electric, Nexans, Marley, Philips and Simx put up fifteen lucky draws, each of 1,000 Golden Powerbase Powerpoints. Shown are three of the 15x national winners receiving their 1,000 Powerpoints:

- » Albert Steenkamp (left) from Alby Electrical and Advance's Jason Regnaud.
- » Gerald Geden (left) from Geden Electrical and Advance's Billy Ellery.
- » Ethan Jones (left) from Wise Wire Electrical and Advances's Peter Hill.

With the support of

**Schneider Electric**

**Nexans**

**PHILIPS**

**Simx Lighting**

**MARLEY**



Welcome to your September/October edition of Marketplace, the promotional and business publication from the members of the Powerbase electrical wholesale group.

We are about to enter the Spring season and as a result will look forward to the arrival of daylight saving (now only 30 days away), warmer temperatures and perhaps readying the BBQ for the season ahead. This is when we quickly realise that the year is now almost three quarters over and it is also often the time when the to-list that was created 'yanks ago' is re-visited and planning for the year end commences.

In this edition we feature articles on "Automation and Lighting Control" and "UPS's - Keeping the Power On" to further build on our objective of providing an ongoing resource of education and information to support the knowledge base within the industry. Should you have any suggestions on topics we could feature in future editions please let us know. This can be via the website [www.marketplacemagazine.co.nz](http://www.marketplacemagazine.co.nz) or directly via email to [feedback@marketplacemagazine.co.nz](mailto:feedback@marketplacemagazine.co.nz).

Powerbase is the largest group of independent electrical wholesalers, all locally owned and operated. The people you deal with are the ones that own the business - so we're committed to keeping you happy!

**Stephen Matheson**  
Group Commercial Manager  
Powerbase Limited



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## POWERBASE MEMBERS



[advanceelectrical.co.nz](http://advanceelectrical.co.nz)



[iesltd.co.nz](http://iesltd.co.nz)



[pro-active.nz](http://pro-active.nz)



[redpaths.co.nz](http://redpaths.co.nz)



[scottelectrical.co.nz](http://scottelectrical.co.nz)



[telfer.co.nz](http://telfer.co.nz)



## NHP GIVES THE GREEN LIGHT TO LED TECHNOLOGY

NHP's range of LED technology Traffic Lights from Moflash has been designed for indoor or outdoor applications which require a low maintenance, long life and cost effective solution.

Whether you require one, two or three LED lamps, NHP allows for multiple units of any combination to create a tailored indication light system for your project needs.

For your next industrial or commercial application requiring car park management, factory traffic control or automated gate and door control systems, look no further than the LED Traffic Light from NHP.

## A BRIGHT START FOR NHP'S ECO RANGE

With Moflash, NHP brings to market an Economy range consisting of two new ranges. One of which, the LED 100 miniature beacons and sounder beacons available in three different base fittings, three colour choices, and multiple voltage options.

The second range being the LED-TLM tower/stack signal series from Moflash is available in 24V DC, suitable for light commercial and industrial signalling applications where local indication is required.



## SAVED BY THE (MOFLASH) BELL



With an established range of IP44 industrial bells from Moflash, NHP expands this range to include the newly released IP66 range of 6" Solenoid driven bells available in 24V DC versions, with AC versions to be released later in the year.

This range is designed and manufactured to withstand harsh environmental conditions, ideally suited heavy duty industrial and marine applications where rugged construction and a high weatherproof classification is required.

Available from your local Powerbase branch



# WIN A GREAT AUSTRALIAN TENNIS EXPERIENCE

## WITH PRYSMIAN

Purchase \$1,000 of Prysmian cable products and you could join the Powerbase and Prysmian team for finals' week in Melbourne.



Promotion valid 1 September to 31 October 2018. Purchase Prysmian cable products to \$1,000 +GST net on one invoice. Ten places available nationwide. Terms and conditions available at all participating Powerbase branches. Travel dates 25-28 January 2019.



# MEET THE LEGRAND TEAM

Meet Legrand's impressive team of light accessories.  
Everything you need to get the job done.

Available at your local Powerbase branch.



**ED 10A DBL POWERPOINT WE**  
Vertical or Horizontal



**ED 10A SGL POWERPOINT WE**  
Vertical or Horizontal



**ED 16A 1-GANG SWITCH WE**



**ED 16A 2-GANG SWITCH WE**



**EM BLUE LED 770 ILLUM KIT WE**  
Grid and plate not included

**NEW PRODUCT!**



**EM AUTOMATIC PIR SWITCH 5A WE**  
40 detection, 5m range, 5sec to 30min delay,  
1-2000 lux adjustable. Grid and plate not included



**ED 10A DBL PPT W/X-FUNCTION WE**



**ED 10A DGPO+ 2.4A 2USB WHITE**

**NEW PRODUCT!**



**EM USB CHARG A+C 2.4A 12W WE**  
4.8A total charge - [2.4A max on type A and 3A  
max on type C]. Grid and plate not included



**ELECTRONIC PUSHBUTTON SWITCH**  
Grid and plate not included



**ELECTRONIC PUSHBUTTON DIMMER**  
Grid and plate not included

**NEW PRODUCT!**



**ED WIRELESS CHARGER WHITE/SILV**  
1A wireless charging pad, 2.4A USB input,  
Vertical or Horizontal

**legrand®**



# TAKE YOUR SEAT AT THE **FASTEST EVENT IN MELBOURNE**

**WITH LEGRAND AND POWERBASE**



**Purchase \$250.00 of any Legrand or HPM product to go into the draw to win one of 10x places in Melbourne.**



Purchase Legrand or HPM products to the value of \$250. 10 prizes available nationwide. Terms and conditions available at all participating Powerbase branches. Promotion valid 1 September to 31 October 2018. Travel dates 15-18 March 2019.

**legrand**

**COMING  
SOON**

# ARMA™

**RIGID CONDUIT SYSTEMS**

**THE ULTIMATE  
DEFENCE**



Marley ARMA Below Ground uPVC Electrical Conduit 1104431 -15/60 AS/NZS 61386 LIC 2755

**ABOVE GROUND**  
**BELOW GROUND**

**MARLEY**



THE GREAT  
**FIRSTFLEX**  
**SPRING**  
*giveaway*

GO INTO THE DRAW TO  
**WIN 1 OF 20**  
SPRING PRIZE PACKS!

Spend over \$200+GST on any  
**Firstflex Cable** products on  
one invoice during September  
and October at your local  
Powerbase Branch.



**PRIZE PACK INCLUDES:**

41L Firstflex Icebox

Weber® Jumbo Joe® 47cm Portable Kettle BBQ

Shimano Bait Runner Rod and Reel 8-15kg Combo

Weber® Jumbo Joe® BBQ's supplied through the Stihl Shop Pukekohe.

Terms and Conditions: The promotion runs from 1<sup>st</sup> September to 31<sup>st</sup> October 2018. Entry to this promotion is open to customers of Participating Powerbase Members. Contact a Participating Powerbase Branch for full terms and conditions. Actual prize rod & reel varies slightly from shown.





# AUTOMATION AND LIGHTING CONTROL

## KEEP IT SIMPLE

Every supplier has the latest and greatest solution out there now days. And new ones just keep on rolling through. For such a small country we have every man and his dog out there importing devices. Most of them are too technical and go right over the head of the contractor, and in the end, the consumer as well. They tell you that the days of needing to get out of your seat to turn devices on or off are gone. We can control the devices off an App on your smartphone, or let your voice do the work. We now have Alexa and I think she is here to stay. Forget about the exercise; let us be a couch potato!

We have the industry wide KNX platform. If you want all the bells and whistles then this could be the way to go. But how much does your customer want to pay to stay locked in their seat, and at the bank. This market has its key integrators in each region so it's not a solution that every electrical contractor will want to offer. And when something goes wrong, you pay a small fortune to get it fixed. So what other options are out there?

Now if you want to keep it relatively simple, then this is where the likes of Nero comes into the market. It is reasonably easy to set up and has some great functionality. The biggest cost to the system is the Nero-Gateway but once you

have installed this, you can connect up to 60 devices via the Nexus mesh network. So in terms of an add-on solution this is a very cost effective way to automate your house. It is designed for the retrofit market as the modules fit neatly behind your existing light switches and sockets. But it also has its place in the new home build market as well.

Some of the key features of Nero are really useful. Like being able to schedule when certain lights turn on is great for security. Imagine being able to go away on holiday and having different lights come on at irregular times to make it look like you are at home. If you are lucky enough to have electric blinds and curtains then you can schedule these to close as the light level decreases and open again as the light level increases. This is all controlled via the Nero-Multi. This is a multi-purpose battery or USB powered sensor that can monitor temperature, light level, motion, humidity, UV and vibration. With a 5 meter range and a 120-degree field of view, the Nero-Multi is a versatile device that can be wall mounted or discretely recessed with the optional retractor. Geo fencing is another great feature. Imagine heading home at night, and once you get within a pre-set distance of your house, certain lights come on. Never arrive home in the dark again.



### IN SUMMARY

The contractor's main concern should not be around the price of the products but what is the after sales service and technical support like. In the end it will be the consumer who will keep you honest. And you know how hard they can be sometimes! If you are not sure about some of the automation products available out there, then talk to someone at your local Powerbase branch. Sometimes it's about getting some products and having a play. The beauty of the internet means there are plenty of on-line forums and support desks based around many of the products we talk about in this magazine. ■

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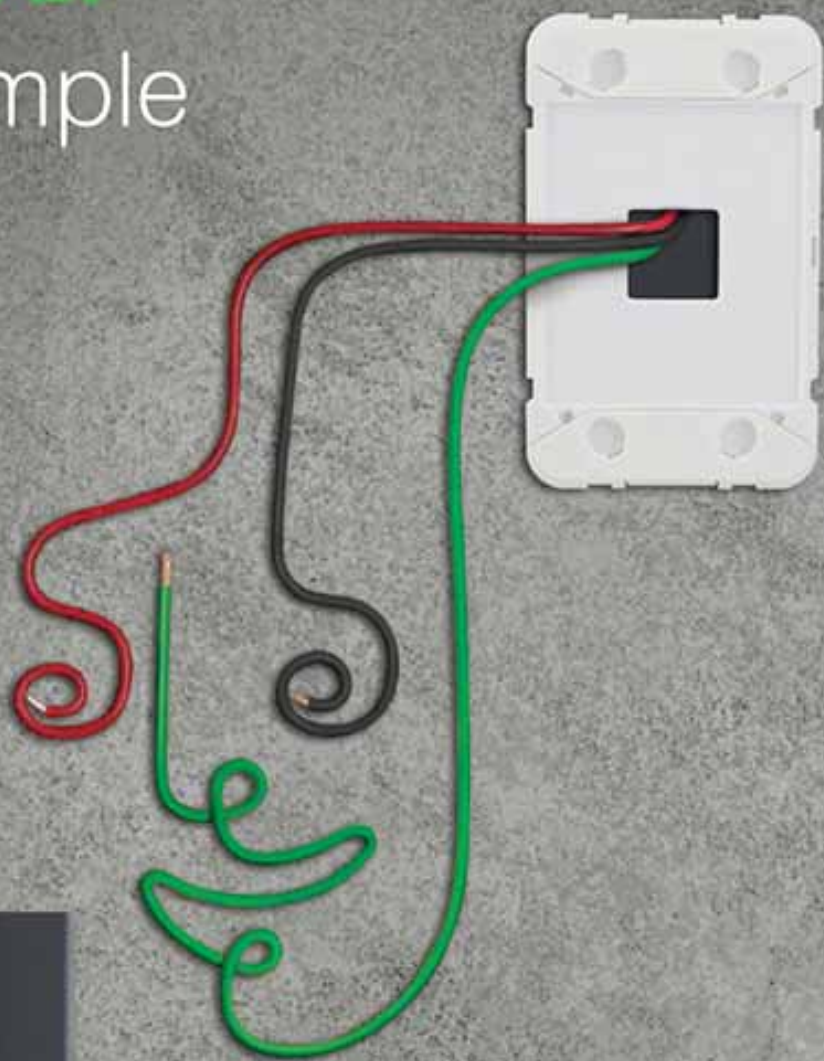
# ICONIC™ STYL.

## Irresistibly simple to install.

The new Iconic range features clever design innovations that make it effortlessly easy to install for faster fit offs. Iconic Styl brings three new, easily changeable skin options, with more to come.\*

Iconic Styl's clip-on design makes life easy, allowing you to simply carry the PDL Iconic base range of mechs and grids, and then mix and match the skin options to suit your customers' preferences. It's simple efficiency that's sure to turn heads in any new build or renovation project.

\*Available from late 2018.





# UPS'S: LET'S KEEP THE POWER ON.

**An Uninterruptible Power Supply, or UPS as they are commonly known, is a device that is not commonly used in the residential market. Commercially, businesses use them because if they lose power they lose business. And if their systems shut down without notice then they can lose valuable information as well. Today's world is full of smart devices that are power sensitive, and can be vulnerable to power surges or brownouts. We have no control over the power voltage supplied by our local power authority. So the more we can protect them the better.**

All modern alarm systems have battery back-up. If the power goes off, or the unwanted visitor takes the power down, then the alarm system keeps working. But what about a CCTV system? Most people forget that when the power goes off then the camera system will stop recording.

That's great. Why bother spending a thousand dollars on a good camera system and you are not prepared to spend a hundred dollars on a good UPS. Just let the unwanted visitor walk away with your hard earned property!

Again, you do not have to spend a lot of money on a UPS. You just need to know the power usage of the device you want to hold up. NVR's don't draw a lot of power so you won't need a very large UPS to hold the device up for an hour. This amount of back-up time should be more than sufficient to suit most people's needs. Another service which we take for granted is our broadband network. Now that everything is based around fibre to the home, people forget that power does not travel down a glass core. So when the power goes down we lose our internet connection. Now wouldn't that upset some people?

There are two main types of UPS's in the market. The Line Interactive offers only the most basic features, providing surge protection and battery backup. When the incoming voltage falls below or rises above a predetermined level, the internal DC-AC inverter circuitry, which is powered

from an internal storage battery, kicks in. The UPS then mechanically switches the connected equipment on to its DC-AC inverter output. The switchover time can be as long as 25 milliseconds depending on the amount of time it takes the UPS to detect the lost utility voltage. This UPS is designed to power certain equipment, such as a personal computer, without any objectionable dip or brownout to that device.

Then we have the Online UPS. The batteries are always connected to the inverter, so that no power transfer switching is necessary. When power loss occurs, the rectifier simply drops out of the circuit and the batteries keep the power steady and unchanged. When power is restored, the rectifier resumes carrying most of the load and begins charging the batteries again. The main advantage of an on-line UPS is its ability to provide an "electrical firewall" between the incoming utility power and sensitive electronic equipment.

The initial cost of the online UPS may be higher, but its total cost of ownership is generally lower due to longer battery life. The online UPS may be necessary when the power environment is "noisy", when utility power sags, outages and other anomalies are frequent, when protection of sensitive IT equipment loads is required, or when operation from an extended-run backup generator is necessary.

## IN SUMMARY

I guess the old adage of "do you want fries with that" applies to a UPS. You need to explain to your customer the reasons why they should have one and let them decide if they want it or not. At least if they say no and something goes wrong, they can't blame you for having no recorded image of the event taking place. ■



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Top Quality, Fast Delivery

# NEW SMART SWITCHES IP 66/67/69K

FOR ALL CONTROL APPLICATIONS



- 22.5mm Mounting
- IP 66/67/69k
- 20A & 6A Ranges
- Isolators
- Key Switches
- Potentiometers
- Emergency Stops
- Push Buttons
- Pilot Lights

NO NEED FOR COMPROMISE - AT K&N WE CUSTOMISE



Kraus & Naimer  
BLUE LINE switchgear

# LENKENG®

Distributed by Computer Dynamics

## HDMI & IR EXTENDER KIT over Cat6 1080p



- Full HD 1080p@60Hz up to 50m via Cat6/6A Cable
- With EDID Switch
- Supports PoE
- Supports IR Passback

LKV372EDID

## NEW HDMI2.0 & IR EXTENDER KIT over Cat6 4K2K



- Extend 4K2K up to 60m via Cat6/6A cable;
- 4K2K@60Hz up to 30m,
- 4K2K@30Hz up to 60m
- Supports IR Passback

LKV672

## Ultra Compact Wireless IR EXTENDER KIT



- Long Wireless Distance up to 200m
- Wide IR Frequency 20 ~ 60KHz
- Supports IR Passback
- Includes an IR Transmitter and IR Receiver

LKV388IR

## NEW HDMI to RF DIGITAL MODULATOR with HDMI Loop Out



- Signal Resolution up to Full HD 1080p@60Hz
- Point to Multi Point and Multi Point to Multi Point
- Strong Anti-noise and Anti-interference Ability
- Local HDMI Loop Out Port

LKV379P-DVB-T





4000K  
122.5lm/w  
IP65



# 200W HIGH BAY

**PRICES SO LOW  
THEY CAN'T BE PUBLISHED!**

CONTACT YOUR PREFERRED SUPPLIER FOR DETAILS

LEDHB200W4K

Lumens: 24500lm, Lumens per Watt: 122.5lm/w, L70: 54,000hrs, Housing Colour: Black, Warranty: 5 Years, IP Rating: IP65, CRI: >75Ra, Colour Temp: 4000K, Cable Length: 2 Metres, Beam Angle: 120°, Unified Glare Rating (UGR): <35, Dimensions: 385mm diameter, 215mmH (Including hook).



SUPER SLIM LED OYSTER  
**DISCUS**  
SL2111



- Simple twist lock installation mechanism
- Opal acrylic diffuser
- Built-in high efficiency SMD LED chips
- Built-in constant current trailing edge dimmable LED driver
- LM80: >36000Hrs(150mA, Ts=55/85/105°C)

LED WALL LIGHTING  
**LACHLAN**  
GLW7062



**NEVADA**  
GLW7064



- Die-cast aluminium body
- Powder coated finish
- Stainless steel screws

**ASPEN**  
GLW7063



**WISH**  
NWLED5523



IP54 LED SENSOR FLOOD LIGHT  
**STARGEM II**  
SES7060



- Independently adjustable heads
- Polycarbonate body and base
- Opal polycarbonate diffuser
- High output 2 x 10W LED chips
- Built in LED driver
- Infrared motion sensor with override function

SL2111/30WW/SL  
SL2111/40WW/SL

GLW7062/5 WW CB  
GLW7063/5 WW CB  
GLW7064/10 WW CB  
NWLED5523 WW

SES7060NDL/BK  
SES7060NDL/WH



## Deep Tilting Downlights

### D-LIGHTZ *Deep Tilt*

### D-LIGHTZ *Offset Deep Tilt*

**SLDL121T**  
Prismatic

**SLDL122T**  
Ultra Low Glare

**SLDL151T**  
Prismatic

**SLDL152T**  
Ultra Low Glare



Switch Lighting Pure Colour downlights render rich natural colours that enhance skin, surfaces and textiles to provide excellent visual clarity in every environment.

Available in the Professional Series with 90+CRI, Art Series with 97 CRI, or with sunset dimming for excellent mood lighting. D-LIGHTZ are also available in a range of lumen outputs for perfect lighting in a wide range of applications.



### Introducing our new adapter plates for the D-LIGHTZ Deep Tilt

**SLSUP-101-S-W\***  
122mm

**SLSUP-101-D-W\***  
122x233mm



These adapter plates are designed to allow the D-LIGHTZ Deep Tilts to be retrofitted in place of an old style recessed luminaire.

Available at your local Powerbase branch

\*Luminaires ordered separately



# PACINO LOW GLARE

UGR<19 LED PANELS



- Low glare and standard options both available
- 4000k or 6000k options
- High colour rendering: CRI>80
- UGR<19 Panels employ a unique non-prismatic style diffuser [Unified Glare Rating]
- Material used for diffuser is PMMA [Acrylic] and not traditional PS [Polystyrene]
- Thicker, double-side welded frame for added structural strength
- 50,000 lifetime hours under normal conditions
- IP40 Protection Rating
- LED SMD 4014, Four edge lit
- DALI Dimming option available
- Flex and plug included

## VYNCO LIGHTING

### What is Low Glare?

Low Glare is a descriptor given to LED lighting with a UGR less than 19. This can be achieved by adding a texture to a diffuser to distribute light differently.

### What is UGR?

UGR - or "Unified Glare Rating" - is the rating standard for how much glare an LED fitting emits. The higher the rating, the more glare emitted.

### Why is it important?

Glare from LED lighting can effect eye comfort and concentration in office and educational environments. To ensure good working conditions and enhance productivity, it is important for light fittings in these spaces to have a low UGR rating.



**Crompton**



### FORCE LED FLOODLIGHT

- Black aluminium with polycarbonate pearl diffused lens
- Sleek and compact
- Integrated driver and LED modules for optimum performance and robustness
- Complete with 1m fly lead and light weight for easy installation
- Sawtooth angle adjustment
- 110° beam angle
- CCT 4000K, CRI>80, IP65, TA40

CFLF20 - 20W, 1630 lumens  
CFLF50 - 50W, 3991 lumens

**PIERLITE**  
professional lighting solutions



### MIDI LED FLOODLIGHT V2

- Slim body
- Easy to install
- Complete with 1500mm flying lead
- 120° beam angle
- CCT 4000K
- CRI>70
- IP65

PFLLED30W4KV2 - 30W, 2967 lumens  
PFLLED50W4KV2 - 50W, 5038 lumens

**PIERLITE**  
professional lighting solutions



### MAXI MASTER LED FLOODLIGHT

- High efficacy, over 110lm/w
- Slimline compact design, suitable for a variety of applications
- Diecast aluminium body and galvanised trunnion arm powder coated black, 4mm tempered glass
- Integrated aiming protractor on trunnion for easy aiming
- Easy installation with 1 metre flying lead and light weight
- CCT 4000K, CRI 80, IP65, IK08, Ta40

MML100S - 100W, 12254 lumens  
MML200S - 200W, 24053 lumens

Please visit our website: [www.gerardlighting.co.nz](http://www.gerardlighting.co.nz)

Crompton

PIERLITE

Proudly distributed in New Zealand by

GERARD

Lighting Controls

# eHome Charging Stations for EV



SENSOR  
OPTION



PLUG N'  
CHARGE



DISPLAY



REMOTE  
CHARGING

16 amp and 32 amp  
versions available

16 amp gives around 20-25km  
of added range per hour\*

32 amp gives around 40-50km  
of added range per hour\*

\*Actual current limited by size of EV's onboard charger



AVAILABLE FROM YOUR LOCAL POWERBASE BRANCH



**CIRCONTROL**  
Mobility & eMobility



**PHILIPS**

*Club Blue*

Contractor Programme

# Kiwi Contractors You're our working day heroes.

Sign-up today to get

- Exclusive rewards
- Free LED and Smart lighting training
- Lighting Tools
- Trade promotions
- Free product samples
- **Right First Time** lighting solution for your commercial or residential jobs



[www.clubblue.co.nz](http://www.clubblue.co.nz)

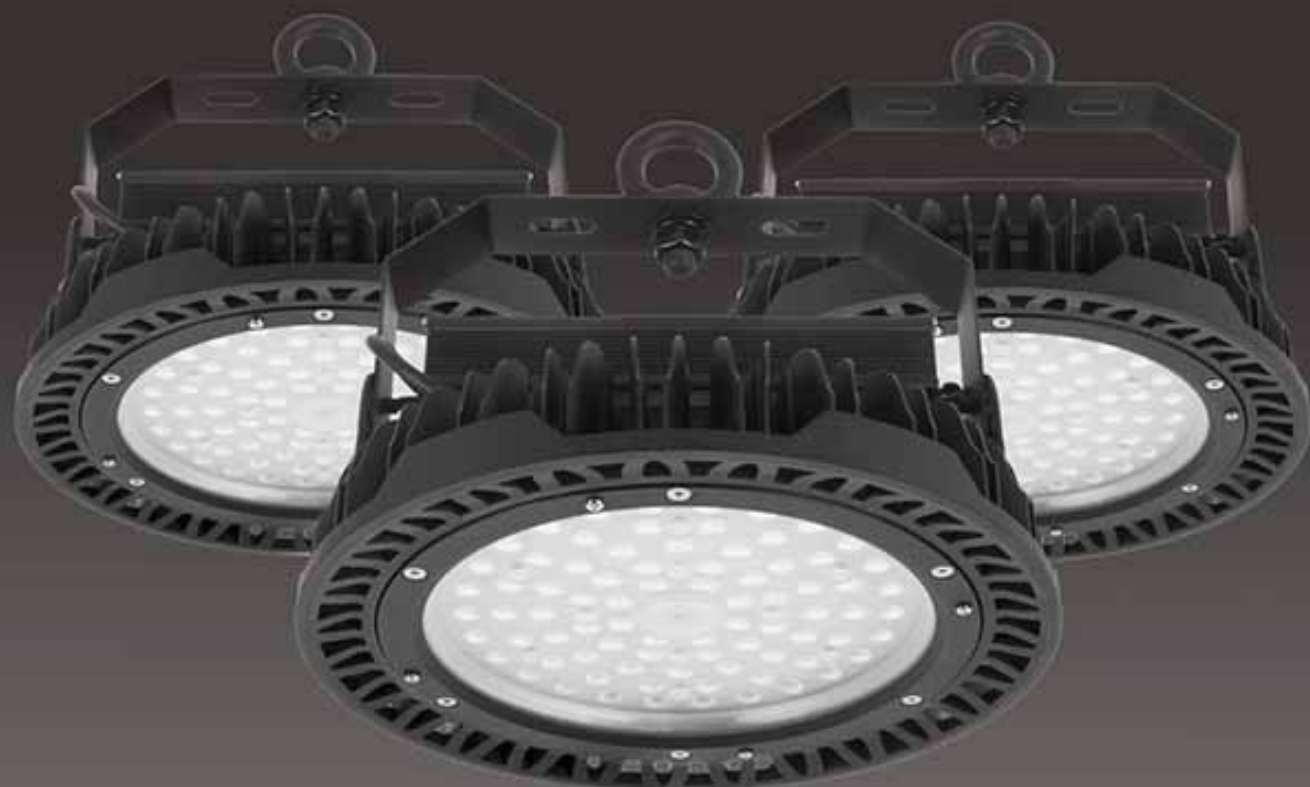


Sign up today. Enter **Powerbase** in the promo code and keep a lookout for your **free beanie!**\*



\* Philips Club Blue contractor programme is only valid for registered New Zealand electrical contractors. Promotion is valid for only new sign-ups. Terms and Conditions apply.





#### SPECIFICATIONS

<b>DIMENSIONS</b>	D320 x H278mm
<b>COLOUR TEMP</b>	4000K Natural White or 6500K Daylight
<b>IP RATING</b>	IP65
<b>IK RATING</b>	IK09
<b>CRI</b>	85
<b>LIFESPAN</b>	54,000 Hours (L70)
<b>BEAM ANGLE</b>	90°
<b>TILT ADJUST</b>	45°
<b>MATERIAL</b>	Aluminium / Polycarbonate
<b>DRIVER</b>	Incorporated (Non Dimmable) Pre wired with three pin plug
<b>AMBIENT TEMP</b>	-20.. +50° C
<b>WARRANTY</b>	5 Years

#### AVAILABLE IN

<b>P448 1PNL</b>	100W 4000K 12800lm
<b>P449 1PNL</b>	150W 4000K 18,750lm
<b>P450 1PNL</b>	200W 4000K 25,000lm

6500K, Dimmable, Motion / Daylight Sensor Versions and a range of accessories also available. See online for more detailed specifications.

Available at all Powerbase branches





# HOT DEALS

## DATA / CABLE

### MODEMPAK 18RU DATA CABINETS TWO SIZES AVAILABLE



- Hinged back cabinet with glass door and removal sides
- W 600mm x D 600mm  
11320218SG
- W 600mm x D 550mm  
11320207SG
- Supplied with fan kit
- Supplied with 2 shelves.

**modempak**  
Suppliers of Quality  
Cable Management and  
Distribution Products

### 7.2 CHANNEL HIGH CURRENT NETWORK RECEIVER



- INTEGRA 7.2 Channel High Current Network AV Receiver.
- 4K HDR Dolby vision compatible.
- Power zone 2 and zone 2 lineouts.
- DTS Play-Fi wireless streaming.
- AccuEQ.
- 4K HDR Dolby vision compatible.
- DTS Play-Fi wireless streaming
- Built-in Chromecast Audio.



**Integra.**  
DISTRIBUTED BY COMPUTER DYNAMICS

### BIG SAVINGS ON QUALITY PRYSMIAN CABLE



**Purchase 200m on one invoice of  
1.0 Flat lemon cable.**

- Easily identifiable
- Meets all the relevant standards
- Easy strip sheath for ease of installation
- EESS compliant
- Manufactured by the largest cable manufacturer in the world.

**PRYSMIAN**



# 6 OF THE BEST DEALS YOUR MONEY CAN BUY

## LIGHTING

### NEW PDL ICONIC™ BLUETOOTH DIMMER



Configuration and control is via any smart device using the Wiser Room app and Bluetooth Low Energy (BLE) technology.

- » Suitable for up to 5 multiway dimming via Control Link
- » Inbuilt over current and over temperature protection
- » Load rating 1W - 300W.



by **Schneider Electric**

### RETROFIT DOWNLIGHT DIMMER KIT 3K OR 4K



- » 11W 125-135mm cut out retrofit downlight kit
- » Quick connect UID dimmable drivers
- » 3000K or 4000K
- » 950 lumens
- » IP44
- » 50,000 hours
- » Halcyon 5 year warranty.

**HALCYON**

### SAVE BIG ON ENERGY EFFICIENT LED PANELS



- » 3 year warranty
- » 50,000 hours average rated life,
- » Opal diffuser
- » High efficiency of up to 109lm/W
- » Aluminium matt finish white frame
- » Slimline profile 10mm, complete with 1.2m flex & plug,
- » IP40
- » 100° beam angle, CRI>80, CCT 4000K and 6500K.

**PIERLITE**  
professional lighting solutions

Proudly distributed in  
New Zealand by **GERARD**  
LIGHTING



# HOT DEALS

## ACCESSORIES

### 40A HEAVY DUTY CONNECTORS GRAB A COUPLE AT THIS PRICE!



Made tough to last. Ideal for residential or commercial applications.

- » 40A Heavy duty connector
- » One screw to hold cable
- » 6mm hole
- » Clear moulding for easy use
- » 100 pack jar container.



A brand of **legrand**

### SENSATIONAL SAVINGS ON 45 PIECE SOCKET SET



Can't find the socket or bit that you urgently need?

Keep this great value 45 piece bit and socket set in your vehicle, boat or workshop.

- » 1/4" Drive ratchet handle
- » Metric and imperial sockets, metric deep sockets
- » Versatile bit set with Philips, Flat and Torx
- » Adaptors, handles and extension bar.



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**HOBACA**

### SMART SENSE 180° PIR SENSORS



- » Proven, reliable sensor with a large accessible wiring box
- » Large 2kW switching capacity
- » Manual override
- » Wall and ceiling mount.



**Simx**  
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## ACCESSORIES

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The next generation of Micro Smoke Alarm, discreet and aesthetically pleasing.

- 10yr long life sealed battery
- Unique test / hush button
- Quick and Easy Installation via 3M adhesive backed tape or screw fixings included
- Approved to standard EN14604.



### SAVE BIG ON QUALITY SURGE ARRESTORS



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- Removable module for easy replacement
- German made
- 5 year Warranty
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- Dual 2.4A USB Ports total 4.8A
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- Overload protection (USB circuit)
- Suitable for all commercial and residential installations such as kitchens, bedrooms, offices, retail, hospitality and education facilities.



# HOME NETWORKING ENCLOSURE



## SIGNET

### ST3010

ST3000 Series Door and  
Enclosure Only

W 355mm x H 725mm x D  
90mm

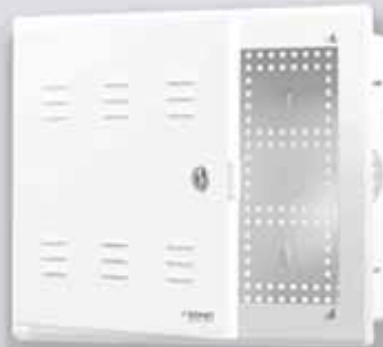


## SIGNET

### ST2010

ST2000 Series Door and  
Enclosure Only

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## SIGNET

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## SUTTON 25 PIECE 1.0MM-13.0MM HSS METRIC DRILL SET



### Features:

- Sizes: 1.0mm-13.0mm in 0.5mm rises
- ABS Plastic Case
- For general purpose machine and hand held drilling of ferrous metals
- Metric Sizes
- Industrial Quality
- Made from M2 High Speed Steel offering the best combination of strength, heat and wear resistance
- Promo Set includes BONUS Bondhus 9 Piece Hex Key Set (BD10999)

suttontools

D1025M06NS

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## TRADEFLAME MINI SOLDERING TORCH KIT 10-IN-1



### Features:

- Suitable for soldering, workshop repair, electronic, jewellery, automotive and hobbyist applications
- Blow torch function
- Flame adjustment
- Gas On/Off switch with lock
- Integrated folding stand

JP211109

TradeFlame

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WIRELESS. )))  
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### CAVIUS Mains Powered Smoke Alarm (CAVMP)

- New RF technology with the ability to connect up to 32 alarms (connects with other CAVIUS Wireless Family alarms)
- 5 Year long-life battery backup (replaceable)
- A penetrating sound at 85 dB(A) at 3 meters
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- Ability to work as a lamp outlet or lamp hook
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# Electrician's Tool Pouches



Padded shoulder strap design for easy storage and the ideal way to carry loaded tool pouch.

Ergonomic rubber handle for easy storage.

Divided main pocket with web loops for large tools.

Steel hammer holder.

## KUEL1509 21 Pocket Professional Electrician's Tool Pouch

Zippered flap to prevent spillage of tools when in use.

**FREE BONUS**  
Multimeter / Remote Radio Pouch

Part # KUEL59 worth \$38<sup>00</sup>

- Made of polyester fabric and ballistic binding.
- Zippered top flap to prevent spillage of tools when not in use.
- Zippered back pocket for 8"x5" writing pad.
- Outside pocket to hold cell phone and 3 outside large screwdriver holders.

## KUEL141503

### 9 Pocket Hi-Viz™ Electrical & Maintenance Pouch

- Made of polyester fabric.
- Heavy-duty clip on back.
- Electrical tape sling.
- Side pockets for screwdrivers.
- Hi-Viz™ webbing with reflective stripes.



## KUEL5505

### 12 Pocket Professional Electrician's Tool Pouch

- Double layer of rugged, lightweight ballistic poly fabric.
- 2 Large main pockets, and 3 smaller pockets.
- 6 Large screwdriver holders.
- Metal clip holds all measuring tape sizes.
- Innovative handle design for easy adjustment and carrying.



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THE TOOLBOX™

\*\*Tools and Accessories Shown are NOT Included\*\*



# YOUR PHONE CABLE, SORTED



## Tycab Underground Telephone Cable

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- 2 pair lead in underground cabling
- Oxygen free copper
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- Gel filled
- EXT026 equivalent



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NEW ZEALAND

## A complete range of high quality FIBRE products from Garland

- made by Madison Technologies



### > GTB-AC Series Tight Buffered Optical Fibre Cable

- Available in all common fibre types and sizes
- Developed especially for use in structured wiring systems
- Ideally suited for campus, building backbone (riser) and horizontal cabling
- UV stabilized LSZH jacketed

### > Garland Fibre Accessories



#### Patch Cords

Patch cords are stocked in a range of sizes, from 1 m to 10 m and in all common fibre types and combinations.



#### Pig Tails

Designed for fusion splicing onto existing cable, prior to final termination.



#### Through Adapters

Fitted with dust covers and packed in their own heat sealed bags for protection.

#### Fibre Optic Break Out Trays



Garland's FOBOT's are available in both fixed and slide out options, and come in a modern powder coated black finish.

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Now**

**MT30903**  
Garland Modular  
24 Port Sliding  
Fibre Panel

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every time, on time.**

The automatic water boiler solution  
for restaurants, cafes, canteens  
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a ready supply of boiling water.



Completely automatic with separate  
electronic controller pre-set to  
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Convenient wall mounting with  
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Simplified design incorporates  
minimum number of working parts.

Four sizes available:  
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### Eveready Gold AA 20 PK Batteries

- » Holds power up to 7 years
- » "Quality Seal" for trusted power in your everyday devices

A91HP20



### Eveready Gold AAA 20 PK Batteries

- » Holds power up to 7 years
- » "Quality Seal" for trusted power in your everyday devices

A92HP20

### Eveready 1409 Dolphin Lantern 6V Battery

- » Eveready's longest lasting 6V lantern battery
- » Zero added mercury and cadmium
- » Economical performance

529LB



### Energizer Vision HD+ Focus Headlight

- » Five LED light modes
- » Patented digital focus
- » Pivoting head
- » Water resistant and drop tested
- » Operates on AAA batteries

HDD32

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# INDUSTRY NEWS

Check out these new products and ask for them at your Powerbase branch today.

## SNIPPETS

### » Legrand Galaxy Connected Emergency Lighting System

Introducing a state-of-the-art emergency lighting monitoring system suitable for installation in smart buildings; streamlining the whole process from specifying and install through to day-to-day monitoring and testing—all in one simple solution.

### » Manrose Pre-primed Exhaust Fan Cowl

Home owners can now match or contrast exhaust fan cowl colours with their exterior walls for the right design fit every time. Cowls are pre-treated with a quality primer, ready for a quick sand and top coat.

### » PDL Launches the Next Evolution of PDL Iconic™

See advert on Page 11 of this issue.

## ECONOMICAL LED LIGHTING. GREAT QUALITY, GREAT PRICE.



### Meet Julie, IP65 LED Luminaire:

With a tough exterior, Julie is the optimal choice for industrial and commercial applications.

Available in 2 sizes and 2 lumen outputs:

- » 40W 1200mm 4000K 4000lm
- » 60W 1500mm 4000K 6000lm
- » 60W 1500mm 6000K 6000lm.

### Meet George, LED High Bay:

Reliable, efficient and bright, George feels comfortable in high ceilings. IK08.



**THORN**  
EcoLED  
EcoLED LED Lighting

**5** Five year warranty

## MARLEY MEETS NEW RIGID CONDUIT STANDARDS

AS/NZS 61386 is a new standard for the manufacture of electrical conduit & fittings. Cited in the latest update of the Electrical Wiring regulations (AS/NZS 3000:2018), Master Electricians is supporting the new manufacturing standard and wiring regulations as best practice. With the release of the updated wiring regulations in June of this year, Marley is introducing the latest in high performance cable management with the release of Marley ARMA™ Rigid Conduit Systems.

Marley ARMA™ is a fully featured heavy duty solution with all the performance features and compliance assurances to give you the ultimate in conduit systems.

Using an application-based approach, the Marley ARMA™ range is simplified with one fully featured solution for above ground applications, and another for below ground applications.

Independently verified to comply with AS/NZS 61386, the Marley ARMA™ rigid conduit system is proudly made in New Zealand and 100% recyclable.



**MARLEY**



## NEW PDL 56 SERIES™ CHEMICAL RESISTANT GREY (CG)

It's not your favourite colour that determines which 56 Series offer you should use, it's the application. Welcome to PDL by Schneider Electric's newest addition to the 56 Series offer - Chemical Grey. This solution has been specifically designed for industries where hygiene is of the upmost importance and where caustic cleaners are in frequent use such as food processing.

For optimum performance it's important to match your industrial switchgear's design and construction to your specific industry. PDL 56 Series – make the right choice.

### Features:

- IP66
- Resistant to caustic wash-down / alkali based chemicals
- Indoor use only (not UV resistant).

### Ideal for use in:

- Caustic wash-down areas in food processing
- Boning rooms
- Abattoirs
- Dairy processing plants
- Seafood processing
- Kitchens and production lines using commercial or industrial deep fryers.

Life Is On



by Schneider Electric



## NEW "LOCK LADDER" FOR SAFE, SECURE CAR ROOF STORAGE

The "Lock Rack" ladder storage system will fit to your existing roof rack system and uses specifically tailored locking arms to hold your ladders or other large objects securely, using an easy-to-use Key Lock system.

Once the arms are locked, only the Key Lock will release them, thus your ladders are perfectly secure and safe, even though you may be away from your vehicle. The quality extruded aluminium construction with s/steel fasteners and UV protected brackets ensures long-life use, it can easily outlive your vehicle! It is also easily transferrable between vehicles.

There's a "Lock Rack" system available to suit all roof racks

- **SAFE** - holds any ladders safe and secure
- **SECURE** - locks ladders in place even if stacked
- **STRONG** - long-life alloy construction with protective sleeving
- **SIMPLE** - quick and easy to load and un-load
- **STANDARDISED** - works with virtually all types of roof racks
- **VERSATILE** - also available for surf/sail/paddle boards and kayaks
- **TWO MODELS** - for single or multiple ladders.

 **LOCKRACK®**





# Distribution boards and breakers



D-Board Flush 15 Way



D-Board Flush 30 Way



D-Board Flush 45 Way



D-Board Flush 60 Way



Domae Switch  
Disconnecter 63A



Domae MCB ,1P,  
6A to 40A, C Curve, 6kA



Domae RCCB 2P,  
30mA, 40A and 63A



Domae Quick PF10  
1P N





## Energy Efficient products



LED Floodlight  
4000K SLIM



LED Floodlight,  
4000K, IP65



LED Floodlight, 20W,  
4000K - PIR Sensor



LED Bulkhead, 20W  
4000K IP54



Dim Module 450W White



Push Button  
Universal Dimmer



White Rotary  
Timer 24HR



White 7 Day  
Digi Timer





## Tested Tough. Trusted Safe.

### New High-Performance Clamp Meters from Klein Tools



KLEIN - KLCL312

- 600V AC/DC, 400A AC
- TRMS CAT III 600V
- Temperature to +1000°C



KLEIN - KLCL150

- 3000A AC
- 18 Inch Flexible Clamp
- TRMS CATIV 600V



KLEIN - KLCL900

- 2000A AC/DC, 1000V AC/DC
- TRMS CATIV 600V
- Inrush Current & LoZ

**Purchase a KLCL312, KLCL150 or KLCL900  
Klein Clamp Meter from any  
Powerbase store and receive a **FREE**  
USB Power Bank Charger\* valued at \$24.95**



\*Available at Powerbase stores only from 1st September - 31st October 18 or while stocks last.

## Electrical Testing Experts

Aegis has some of the most reliable testers in the marketplace. 85 years of experience in testing means you always get the best.

### MultiFunction Testers



**Aegis**  
Fully Featured  
Rugged & Reliable  
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**CZ20500**

Insulation 250/500/1000 V  
Line/Loop (No-trip)  
RCD/Phase/Voltage



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Powerbase branch**

Aegis Instruments - Test Equipment Specialists

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## C20 Window Opener 230V



- Electric C20 actuator with double link articulated chain, enclosed in a special casing, with different mounting accessories for top and bottom hung windows
- Fast hooking and unhooking system of the chain to the window
- Adjustment of the stroke at 240 or 360mm by an external knob
- Maximum applicable load 300N
- Operation at 230V 50Hz



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Your Partner for Global Technology

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Regd. Trade Mark  
MEANS  
ACCURACY

## THE LEGACY CONTINUES...

### New Megger AVO835 - more than just another DMM

- **Reduced Toolbox Count:**
  - Included Phase Rotation and Voltsense
- **Major Safety Features:**
  - CAT IV 600V, IP54
  - Shuttered Ports
  - Auto Detection of Charged Capacitors
- **Powerful features for Industrial Users**
  - Auto Low Z Mode
  - Low Pass Mode
  - AC+DC Mode
  - Temp/Freq/Cap...



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Free magnetic  
hanging strap  
included



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local Powerbase branch



# SURGE VOLTAGE PROTECTION EXPLAINED:

A Surge is a rapid, temporary increase in voltage. Some common causes being the switching of power from large scale electricity users such as shopping centres, hospitals or factories.

A surge can also be caused by a close lightning strike. Electronic installations, data processing, personal computers, home theatre & sound systems and a host of other expensive electronic equipment are all under constant threat from these damaging surge voltages. Especially at risk of destruction is LED lighting. These products have a long life-expectancy which is drastically reduced without surge protection. Street lighting is at the mercy not only of line surges but also of electrical disturbances due to lightning activity. Following are a series of frequently asked questions regarding surge voltage protection.

## Why install a Surge Arrestor?

Every surge takes its toll. Even brief surges can destroy the circuitry of sensitive electronic equipment over a period of time. Unfortunately, it is very likely that a surge (a prolonged voltage increase) or a spike (an instantaneous increase travelling at the speed of light) can destroy electronic circuitry instantly.

## How do they work?

Surge Arresters provide a direct path for any over-voltage from a surge or spike to Earth. This keeps the high voltage from destroying electronic equipment.

## What does it protect?

Even brief surges can destroy the circuitry of sensitive electronic equipment over a period of time. And of course, a surge or a spike can destroy electronic circuitry instantly.

## What is the difference between coarse (or lightning), medium and fine protection?

Coarse protection (Lightning Protection) is to be used in main switchboards where there are overhead incoming mains.

Medium protection (Surge Protection) is to be used in main switchboards where there are underground incoming mains. It is also to be used in any distribution boards. Fine protection is normally a plug-in device and is to be located within 5 meters of the device to be protected and always in conjunction with medium type protection.

## Do I need a back-up fuse?

The size of backup fuse must be matched to different makes of models of surge arrestors. The New Zealand Standards require the installer to observe the manufacturer's instructions when it comes to selecting a back-up fuse. In some instances, a back-up fuse will not be required.

## Why do I need to monitor surge arresters?

All surge arresters using MOV (Metal Oxide Varistors) eventually wear out and fail. In order to ensure that a site is still protected the unit need to be replaced. This is easily done with a surge arrester system with removable modules. A monitoring system ensures that this is done at the correct time.

## What is the NPE unit and what is it used for?

In New Zealand distribution boards there is a requirement to install 4 pole arresters. The best way to do this is to use an NPE style arrester between Earth and Neutral. Using an NPE arrester instead of a standard type arrester ensures a better level of protection and segregation. It also ensures no nuisance tripping of up-stream RCD's and stops circulating earth currents.

# MADE TO TAKE NATURE'S KNOCKS



## SURGE & LIGHTNING PROTECTION SYSTEMS

### V10-C/1 Surge Arrester

OBO Betterman is the world's largest manufacturer of Lightning & Surge Voltage Protection Systems.



AVAILABLE AT YOUR LOCAL POWERBASE BRANCH

**CHECK OUT THIS SURGE ARRESTOR DEAL FROM MARDAG**

Go to Hot Deals Pg 23





## aap Security & Control System



ESL KIT-7 NC



Security & Control system with 16 inputs & up to 8 programmable outputs

- Digital Keypad
- ESL Control Panel
- Flush Internal Siren
- 4 core Copper Cable
- External Siren/Strobe
- 12V 7.5A Backup Battery
- 2 x SWAN QUAD Pet Sensors
- 2 x RM-8006B 915Mhz Remotes
- 1 x RX-16 MF349 Multi-frequency Receiver

RM-8006B KIT Included!



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TVT-4CHDVRKIT

Complete Plug & Play Camera Kit

- 1 x 4CH Hybrid Recorder with 1TB Hard Drive
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- 4 x 20m Coax Cables
- 1 x 1.5m Patch Cable
- 1 x 2m HDMI Cable



HD CCTV



RG59T-100

Solid copper core/foil & braid shielding CCTV cable. Twin power - 100m drum

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Panasonic

## Video Intercom Kit

VL-SV71AZ

### KEY FEATURES

- Large 7" LCD Monitor
- Wireless DECT Handset
- Highly expandable - up to 4 Monitors & up to 2 Door Stations
- Safety & Security - up to 50 picture recordings (x8 shots per person), night vision, & voice change function
- Simple 2-Wire Installation



## Video Intercom System

VL-SWD272AZ

### KEY FEATURES

- Large 7" LCD Monitor
- Wireless DECT Handset
- Highly expandable - up to 6 Wireless Handsets, up to 3 additional Monitors, & up to 2 Door Stations
- Safety & Security - up to 50 picture recordings (x8 shots per person), night vision, & voice change function
- Simple 2-Wire Installation





# TOYOTA HIACE



The Toyota Hiace has been a transportation stalwart of tradies for over 40 years and it's easy to see why. With its hard working reliability, easy maintenance and cavernous loading space, it's a practical van that works as hard as its owners (and often even harder).

Currently in its 5th generation, the Hiace comes in large ZL size (4.7m long) or even larger ZX (5.38m long) and with the ZL, you get the choice of petrol or diesel motors and full glass or half panel van body styles - we opted for the ZL full glass model to review.

Aesthetically, both inside and out, the Toyota Hiace seems to have resisted the move towards more car-like characteristics and that's not necessarily a bad thing. It puts virtually every part of its sizable frame to good use. The engine resides underneath the front seats (with access under the passenger) making for a lofty driving position, and by keeping its body overhangs limited, it ensures excellent manoeuvrability around the inner city streets or on building sites. Seemingly to underline this fact, the Hiace has a 5.7m turning circle that is tight enough to shame a London black cab.

**BEING SUCH A WORKHORSE, THE HIACE HAS A MORE PRACTICAL APPROACH TO INTERIOR CREATURE COMFORTS TOO.**

////////////////////

The rather abrupt front includes a large black bumper, a silver painted grille, multi-reflector halogen headlamps and daytime running lights that are all slightly offset by a sleekly angled windscreen, while the rear consists of a substantial tailgate, black bumper with reflectors and an LED high stop light. The market place by front height of

1.98m, width of 1.70m, a kerb weight of under 1900 kgs and rides on top of 15" steel wheels.

Being such a workhorse, the Hiace has a more practical approach to interior creature comforts too. By replacing a bench seat with two designated front seats and moving the gear lever to the dashboard, the cabin not only gains more space but also includes a generously sized centre console, with ample document slots and drop open storage doors. The audio system is pretty unrefined. It includes an AM/FM radio with single in-dash MP3/WMA CD player, auxiliary input jack and USB connection, Bluetooth handsfree phone capability and audio streaming, voice control for audio/phone, 3 line text display, radio text and 2 speakers.

Safety assists include Anti-lock Braking System (ABS) and Brake Assist (BA), Hill-start Assist Control (HAC), Vehicle Stability Control (VSC), Traction Control (TRC) and it even comes with Cruise Control for those out of town jobs.

Access to the Hiace's 6000 litres (2.93m L x 1.56m W x 1.34m H) of loadspace comes

via the low step entry at the rear or (in the case of this full glass model), dual full-sized sliding side doors that make the most of the access to the van's centre. Like we said before, this area is substantial and well thought out, even the wheel arches do little to impede this working area. But if you are after extra space, the ZX model offers up 9000 Litres and both the ZL and ZX come with a max towing capacity of 1400/700kg (braked/unbraked).

The Toyota Hiace has more than proven its worth as a fine tool of the hard working tradesperson. What it lacks in refinement, it more than makes up for by doing the 'basics' incredibly well. Plus, by having such a long and illustrious career within the trade industry, accessories for the Toyota Hiace are aplenty, both as factory options and from the aftermarket world. So, from interior shelving and compartments to exterior styling and protection, there are a multitude of ways to make the Hiace more uniquely yours, should you wish.

## SPECIFICATIONS

as tested (ZL Glass Van)

Loadspace Capacity	6000 Litres
Drive type	Rear Wheel Drive
Engine type	Diesel, 4-cylinder, 16-valve (DOHC) intercooled turbo
Engine CC	3.0 Litres
Max power	100kW at 3400rpm
Max torque	300Nm at 1200-2400rpm
Fuel economy Combined	8.7L/100km
Transmission	4-speed Electronically Controlled automatic Transmission (ECT)
Exhaust Emissions	Euro 5 with Diesel Particulate Reduction Filter (DPF)
ANCAP Safety rating	4 Star

**PRICE: \$45,890 RSP**







# WORLD'S LARGEST 18V LITHIUM-ION SYSTEM\*

\*18V 5.0Ah battery

## Cordless Rotary Hammer Skin

18V LXT® Brushless Cordless 17 mm Rotary Hammer, SDS-PLUS Bits DHR171Z

BL MOTOR X LXT SUB-COMPACT



## Brushless™ Circular Saw Skin

18V LXT® Brushless Cordless 165 mm Circular Saw, Electric Brake, Soft Start (RH) DHS660Z

BL MOTOR ADT BRAKE



## Brushless™ Cordless Recipro Saw Skin

18V LXT® Li-Ion Brushless Cordless 20 mm Recipro Saw DJR188Z

BL MOTOR LXT SUB-COMPACT



## Brushless™ Cordless Impact Wrench Hex Skin

18V LXT® Brushless 3-Speed 7/16" (11.2 mm) Impact Wrench DTW800Z

BL MOTOR



## 18V LXT® Brushless Sub-Compact 2-Pc. Kit (5.0Ah)

DLX2221TX1

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A NEW CLASS IN CORDLESS

# EXPANDED

DHP483 Cordless Hammer Drill Driver  
DTD155 Cordless Impact Driver  
2 x 5.0Ah batteries (BL1850B-L)  
Rapid Charger (DC18RC)  
Makita Carry Case



## Brushless™ Angle Drill Skin

18V X2 (36V) LXT® Li-Ion Cordless 13 mm (1/2") DDA460Z

X2 BL MOTOR ADT



## GET FREE BONUS 5.0Ah

MAKITA 18V LXT® LITHIUM-ION 5.0Ah BATTERY



LXT LITHIUM-ION

## BONUS 5.0Ah

18V LXT® LI-ION 5.0Ah BATTERY



## Brushless™ Cordless 5" Angle Grinder Skin

18V LXT® Brushless 125 mm (5") Paddle Switch No-Lock DGA508Z

BL MOTOR AUTOMATIC SPEED CHANGE BRAKE



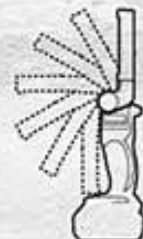
## SDS-PLUS 7-PC SET NEMESIS II B-59031

5x115 mm  
6x115 mm  
8x115 mm  
6x165 mm  
8x165 mm  
10x165 mm  
12x160 mm



## LED Flashlight Skin

18V / 14.4V LXT LI-Ion 12 LED Flashlight, 240 Lumens DML801



With 7 positive stops at:  
0°, 30°, 60°, 90°, 120°, 150°, 180°



ONE BATTERY. ONE PLATFORM. ONE SOLUTION.

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## WP Compact

LED Utility Bulkhead



Vandal resistant luminaire  
Universal mounting

LHT0785 - 10W  
LHT0786 - 15W

# MANROSE

## Fan-LED Light

Bathroom Extraction



High efficiency inline fan  
Suits larger bathrooms

FAN5375 - 150mm  
Standard Switching

# MANROSE

## Shower Fan

Prolonged Life



Draws steam directly from source  
Ceiling space mounting

FAN0101 - 150mm  
Standard Switching

# WEISS

## High Performance Inline Extraction Kit | 150mm

### FV101



62 l/sec  
• Installed Flow Rate •  
(Building Code Compliant)

106 l/sec  
• Free Air Flow Rate •  
High Static Pressure  
140 Pa



### Features

- Industrial grade axial fan for high performance
- Long working life (50,000 hours)
- 10 metres of high quality 2 layer aluminium ducting
- Ball bearing motor
- Includes louvre outlet and low profile interior grill
- NZ Building Code Compliant Including Supplier Declaration
- 5 Year Warranty



Low profile interior grill



Industrial grade axial fan



Louvre outlet included



2 layer aluminium ducting



Available from your local Powerbase Member

Weiss Limited

[www.weiss.co.nz](http://www.weiss.co.nz)





ABOVE Canterbury folk may not see Matt Todd in provincial colours again.  
www.photosport.nz

# THE YEN IS HURTING THE NPC

**Seasoned New Zealand professionals are being allowed to skip the Mitre 10 Cup to earn big money in Japan before returning to their franchises.**

The squeeze is on the NPC.

One of the foundations of our national game since 1976, the NPC, now under the Mitre 10 Cup moniker, has been gradually squeezed out of a dedicated window since rugby went pro in 1996, and certainly since the first expansion of Super Rugby in 2006.

We rugby people know this. We accept it, but not without some gnashing of teeth and a wave of nostalgia, when the crowds numbered in the tens of thousands and the rugby was joyous and strong. Now, it is shoehorned into a two-month window while the All Blacks monopolise the lions' share of media, money and spotlight.

But now there is another factor that is having a severe impact on the once proud status of the NPC: Japan, home of the rising sun and the yen, home of Rugby World Cup 2019.

We are now finding that long service, often fringe All Blacks, often prominent provincial performers, all of them fulltime pros, are skipping the NPC in between

Super Rugby seasons. They do this with the blessing of New Zealand Rugby on a case by case basis. Not just anyone can up sticks when they feel like it and slope home in February in time for a new Super season.

Of course, one can hardly blame the players for heading north for a financial windfall, where they can earn up to 10 times more for a few months' work than they can in 10 games for their province. They will, of course, have to shun the chance of All Blacks' selection while they are away. Most take that often bitter pill if it means some short-term financial security.

At the time of writing, the following were the players, under NZR contract, who are in Japan but plan to return for their franchises in February, hopefully not too banged up but certainly cashed up: Matt Todd, Tim Bateman (Canterbury), Tom Franklin (Bay of Plenty), Augustine Pulu, Pauliasi Manu (Counties Manukau), Richard Buckman (Hawke's Bay), Heiden Bedwell-Curtis (Manawatu), Dan Pryor (Northland), and Elliot Dixon (Southland).

Most, if not all of these blokes, love playing for their union, sometimes their province of birth. But it is becoming economically unviable, with a salary cap of \$1m per



**Former Manu Samoa No 10 and freelance rugby scribe Campbell Burnes sees a new trend that is going to further erode the status of the Mitre 10 Cup.**

team, half of what it was in 2006, when many unions splashed the cash and went straight into the red.

Todd is the interesting case. He is just about a front-line All Black, a stalwart of 72 games and multiple titles for Canterbury. But he will sample Japanese rugby with Robbie Deans' Panasonic Wild Knights before coming home for another crack at the All Blacks in RWC year. Good on him. Franklin and Dixon were fringe All Blacks who grew tired of constantly knocking at the ABs' door.

Pulu and Manu were once fringe All Blacks who know there is a market for players of their calibre. Unless they make the national side, their ability to earn really good coin is restricted in New Zealand.

The loser, of course, is the good old NPC. Sadly. ■

**SPOTLIGHT ON RUGBY FROM POWERBASE KEEPS YOU UP WITH THE PLAY**  
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# MOUNTED SNAPPER JAWS A GREAT CATCH MEMENTO!

Many anglers have that extra-special fish in mind when setting out with fishing gear in hand – a fish that means a great deal to them. The eventual realisation of this catch may see it mounted for posterity, but not everyone has the space or the spare coin. Fortunately, there are alternative ways to display great catches. Nicky Sinden, host of *Ados Addicted to Fishing*, shares a step-by-step guide to preserving trophy snapper jaws, for a worthwhile tribute to a great catch...

Snapper are known for their powerful jaws, which they use to crush and squash their prey in a ferocious manner. Over time these teeth wear away, but new teeth are grown as required.

After the thrill of the catch, the fun of filleting it, and the satisfying feeling of a full belly afterwards, throwing out the snapper frame could be considered wasteful. However, by mounting the jaws, part of the frame can now be turned into a piece of art.

## THE PROCESS

### Step 1. Bake

Remove the head of your snapper and place it on a baking tray, double wrapped in tinfoil. Bake it until the flesh is tender.

An average cook time is about 45 minutes at 180 degrees Celcius, but the time will change depending on the size of the fish.

### Step 2. Find the seven bones

Once cooled, use a knife and your fingers to find the seven bones that make up the jaw.

Four pieces combine to make the top jaw, with two symmetrical pieces forming the top jaw proper, along with two more, which are the supporting bones.

Going in from the bottom, you will find the bottom jaw is still in one piece. Now look for the cheek bones - there should be one on each side.

### Step 3. Scrub

Now it's time to scrub and clean ... and the longer you spend on this, the better the jaws will look.

Scrub each piece with an old toothbrush and warm water; a toothpick will get into all the little holes so the nerve endings and any excess flesh can be dug out.

### Step 4. Marinate

Soak your snapper jaw in hydrogen peroxide (6%) for 40-60 minutes, depending on the size of your fish. This will decompose any leftover bits that have been missed and will also preserve and whiten the bones.

Remove the bones and rinse them in water before drying them in the sun, leaving them overnight.

### Step 5. Assemble

While playing around with the seven fish-jaw pieces, you should notice that the various pieces slot into each another with ease.

Use some contact adhesive to carefully connect the bones at the points where they touch. I used a toothpick and put a small amount of glue on each part, wiping away any excess.

Once each part starts to go tacky, connect them together and hold them in place with firm pressure for 30 seconds - or slightly longer if it's a bigger fish.

Once the jaw has been reassembled and the glue sets, all sorts of mounting options can be used, with the only limit being your imagination, from plain timber through to a large shell - anything that contrasts with the white of the bone. ■

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# 'CRISP' CHIPPING.



Excessive wrist action when chipping is the common cause of 'chunky/heavy' or 'clean/thin' chip shots. If you work on the following practice drill it will improve your ability to consistently achieve the desired 'crisp' contact when chipping.

## SET-UP POSITION

All too often I see people setting up to their chip shots incorporating 'too much' forward lean of the shaft (See photograph 1).

The problem with this 'set-up' position is, it not only de-lofts the clubface angle/loft but more of a concern is the fact that doing so reduces the club's natural 'bounce' angle on its sole. Reducing the 'bounce' angle on a club causes its 'leading edge' to dig in to the turf excessively which will significantly slow down the clubhead momentum through impact.

The correct set-up is shown in photograph 2: In this photo, you can see that my hands are not significantly ahead of the ball and my left arm and the clubshaft almost 'marry -up' in a straight line. Setting up in this way retains the true loft on the club selected and importantly retains the amount of 'bounce' on the sole of the club.

## THE CHIPPING MOTION.

There will always be an amount of 'wrist-hinge' on the backswing motion (more evident in the right wrist) - this creates a 'steeper angle of attack' into the ball on the forward motion but also prevents the club 'snagging' on the backswing motion particularly when playing from a fluffy lie. I encourage you to watch the chipping actions of the pros - you will notice that when hitting the vast majority of their chip shots, at impact they do so with a 'flat' left wrist.

The most common fault I come across when working with amateur players on their chipping and short games is an excessive amount of wrist action (particularly on the through swing when they unhinge 'too much' and 'too early' (see photograph 3).

When the right wrist overpowers the left prior to impact, it causes the 'leading edge' of the club (not the clubface and grooves) to make contact with the ball close to its equator - the resulting 'thinned' strike accelerates the golf ball forward low and with excessive power.

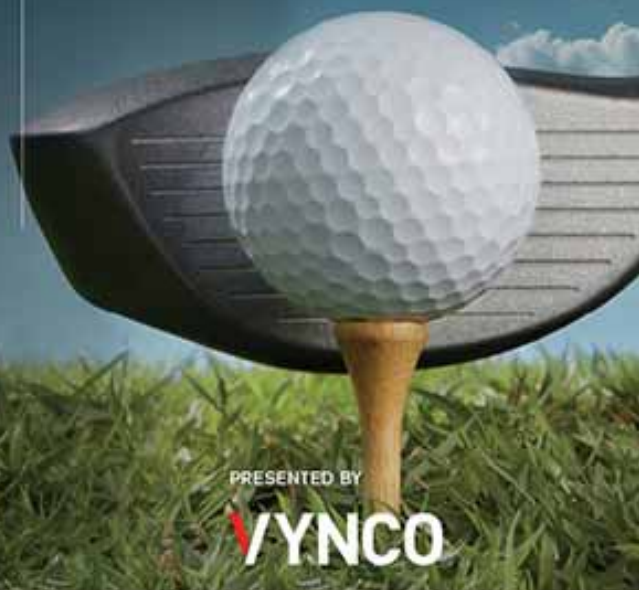
## PRACTICE DRILL.

You will need a short ruler or a pen and you will need to wear a glove or wristwatch on your left hand to perform this practice drill. The correct 'setting up' of this drill is the key to its success.

Position the ruler/pen so that one end of it rests 2/3 inches above your left wrist whilst the other end rests against the back of your left hand 4/5 cm short of your knuckles (within your glove or wedged within your watchstrap to keep it in place) Photograph 4. Now, quite simply practice hitting chip shots with your wedge/ 9 Iron, 8 Iron etc and hold the 'finish' position just after impact.

Throughout the motion, the bottom of the ruler/pen should 'NOT' dig into the back of your left hand. It should feel like your hands are 'leading' the clubhead into impact.

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Tom Long is the PGA golf professional at the Jack Nicklaus-designed Kinloch club in Taupo. He has recently produced a mobile tuition app called Golf Inside the Scoring Zone.

Tom Long's app is available at Apple and Google Play stores, for more info visit [tengrandmentality.com](http://tengrandmentality.com)





PHOTO CREDIT: Mead Norton

# GENTLEMEN (AND WOMEN), START YOUR ENGINES.

**Ferrari Challenge is the widest ranging and most envied one-make series in the world, and when you see what is on offer, it's easy to understand why.**

Established in 1993 (and FIA approved), the Ferrari Challenge was initially created for budding race drivers that owned the 348 Berlinetta. The event proved to be so popular that nowadays, it's separated into three series events, Europe, North America and Asia-Pacific and has three categories per race, Trofeo Pirelli, Trofeo Pirelli AM and Coppa Shell.

Each 'meet' is a weekend filled with high-performance Ferrari's (both on and off the track), high-drama and ultimate luxury. The impressive motor racing is made even more so when you realise that these are not professional drivers on the track, simply owners that have a yearning in their hearts for motorsport glory - in other words, Gentleman (and women) Racers.

Twenty-six 'amateur' drivers from fourteen countries (two of which are from New Zealand this season) compete in the Asia-Pacific series of the Challenge, each of them behind the wheel of identical 488 Challenge Ferraris. This is no mean feat as each Ferrari possesses a beast of a 3.9L turbocharged V8 engine producing

493kW and 761Nm and the most powerful Challenge car ever. It's an 'arrive and drive' scenario, so while the drivers rest in the Challenge Suite being lavished with fine food and massages, all vehicle race preparation and maintenance is being ably conducted by Ferrari's Corse Clienti.

**SINCE ALL PARTICIPANTS DRIVE THE IDENTICALLY SPEC'D VEHICLE, THE RACES ARE USUALLY VERY CLOSE, WHICH IS THE MAIN APPEAL OF THIS SERIES**

But drivers also get to enjoy driving on some of the most famous tracks in the world. All three series have excellent schedules, with races at Monza, Mugello and Silverstone in Europe; Laguna Seca, Montreal and Austin in North America; and in Asia, Melbourne, Shanghai, Fuji and Hampton Downs. Yes, you heard that correctly, in April this year (for the first time ever) Hampton Downs Motorsport Park in the Waikato played host to this prestigious event and to the delight of Ferrari Challenge participants and the Ferraristi alike, it became a sea of Rossa Corsa.

All this globetrotting and celebrity style motorsport does come at a price though. Aside from the purchase price of the 488 Challenge Ferrari plus ancillary expenses, it's estimated that in North America, each race weekend can cost upwards of US\$20,000 - which, when you consider what goes into making this series so epic, seems pretty reasonable to us.

Next stop for the Asia-Pacific series is Suzuka in August, followed by Singapore Marina in September and culminating with the Finali Mondiali at Monza Italy in November. Fingers crossed it will return to New Zealand next year. ■

**GOT YOUR ENGINE RUNNING?  
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# SMOKO BREAK

## SUDOKU

Fill in the missing boxes so that the numbers 1-9 appear in every row, column and 3x3 square.

	2		4		1			
		4	2			1		7
		1		9		3		
4		8	5				1	2
		7	3	4	2	8		
2	6				7	9		3
		2		8		5		
1		6			4	2		
			7		3		6	

## WORD WHEEL



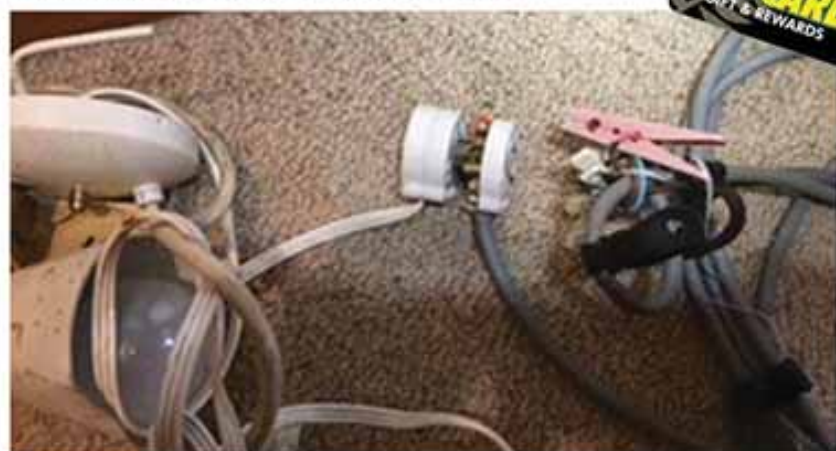
Find as many words as possible using the letters in the wheel. Each word must use the centre letter and at least 2 others. Letters can only be used once. Use all 11 letters to form one word, here's a clue: What is another word for "asking"?

- // 50 words - Good
- // 75 words - Excellent
- // 100 words - Genius

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Each issue will have a **\$50 Subway card** to give away for the best pic!! Master Electricians will chose the winner.

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