Automotive Fuses and Fuse Accessories



The Buss Fuse Advantage MARKET COVERAGE · INNOVATIVE PRODUCTS · PROFIT-BUILDING PACKAGING

Buss Fuse offers the industry's most complete line of fuses and circuit protection products for automotive aftermarket applications. Count on Bussmann for blade fuses, glass fuses, flashers, circuit breakers – the mass market products that are always in high demand. Plus, we provide a wide range of niche products – for foreign-maker cars, special applications and more.

A leading manufacturer of automotive fuses since 1917, Bussmann's aftermarket product line includes all the industry's latest circuit protection products – such as mini- and maxi-style circuit breakers. We've introduced an exciting range of accessories, too for today's fastest growing applications: cellular phones, enthusiast stereos and marine, among many others.

Bussmann keeps you on the cutting edge of automotive technology. We're working with many of today's leading vehicle manufacturers to develop innovative products – designed specifically to protect the sophisticated electronics at the heart of tomorrow's automobiles.

Of course, Bussmann offers more than product coverage and innovative design. We're the industry leader in profit-building merchandising programs – boosting your sales with attractive package assortments, high-impact displays and dynamic product merchandisers.

Bussmann[®]

The Driving Force in Automotive Circuit Protection

This catalog is intended to present product data and provide technical information that will help the end user with design application. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this catalog. Once a product has been selected, it should be tested by the user in all possible applications.

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Cooper Bussmann is a worldwide company, leading the way in development of circuit protection technology. With more than 40,000 different fuse products, we offer the broadest market coverage in the industry. This catalog covers the automotive aftermarket. For additional products or technical information, contact your Buss sales representative or our customer satisfaction team at (636) 527-1461, (636) 527-1477 or by Fax, toll-free, (877) 359-2675. Additional information about these products can be found in the Automotive Price List.

1

2 Blade Fuses

The industry standard – used in most domestic and imported cars today. All Buss blade fuses meet or exceed OEM and SAE standards. Buss is a certified OEM supplier of ATC, ATM and MAX fuses to car manufacturers. All Buss blade fuses are made in the USA.



Buss

ATM® FUSES

Introduced in the early '90s, ATM fuses are quickly growing in popularity for late-model OEM applications. ATM fuses use the same universal color coding as ATC style. Buss ATM fuses feature an enclosed element offering protection against shocks and sparks, plus corrosion resistance for longer service life.

MAXI[®] FUSES

Maxi Fuses are used to protect circuits in the wiring harness – usually found under the hood, in a fuse panel or supplementary panel near the battery. Primarily used in domestic cars, MAX fuses also have some applications in imported models. OEM applications currently range up to 60 amps; however, some aftermarket accessories (such as high-end stereos) require protection up to 80 amps.

3

BLADE	FUSE GU	IDE	
	ATC	ATM	MAX
Black	1		
Gray	2	2	25
Violet	3	3	
Pink	4	4	
Tan	5	5	70
Brown	71/2	71/2	35
Red	10	10	50
Blue	15	15	60
Yellow	20	20	20
Clear	25	25	80
Green	30	30	30
Blue-Green	35		
Orange	40		40

ATC, ATM and MAX fuses are rated at 32 volts.

ATC[®] FUSES

ATC Blade fuses were introduced in the late '70s, and are still widely used by automotive OEMs. Buss ATC products use the industry's universal color coding to indicate amperage. Buss ATC fuses feature an enclosed element – offering protection against shocks and sparks, plus corrosion resistance for longer service life. Although still used in older-model cars, glass fuses are found primarily in automotive accessory applications today.

Bussmann's expansive line of glass fuses includes many types and sizes in addition to those listed in this catalog. Call Bussmann for more product details if you have requirements which are not covered here.



FUSE SELECTION CRITERIA

Glass fuses are widely used in electronic and electrical applications where proper fuse selection is critical to performance.

- For electronic/electrical applications, fuse must be rated at 125V or better.
- Voltage must match or exceed the fuse being replaced (125V for household current; 12V for auto; 24V for heavy duty).
- Amperage must match that of the old fuse.
- Glass fuses are available in fast-acting or time-delay versions.

SFE-20

In general, glass fuses are designated by physical size and type:

- All AGC fuses measure $\frac{1}{4''} \times 1\frac{1}{4''}$.
- All AGW fuses measure $\frac{1}{4''} \times \frac{7}{8''}$.
- SFE fuses are the exception to the rule: they change in length, as amperage ratings increase.







As power requirements increase under the hood and in the passenger cabin, so does the need for high-performance circuit protection products.

6

Bussmann's line of wiring harness products include fuses rated up to 300 amps. These products – including Maxi style fuses and other devices – replace the fusible links used in older model cars.

Wiring harness circuit protection products are usually found under the hood, in a fuse panel or supplementary panel near the battery.



ANN & ANL Fuses Often used to protect charging systems in battery-operated forklifts, golf carts and similar applications. These rugged, reliable fuses offer high amperage ratings in a compact size just $7/6" \times 33/6"$. ANN fuses are rated at 125 volts, for applications up to 800 amps. ANL fuses are rated at 32 volts, up to 750 amps. Durable glasslaminated melamine body and riveted construction offer superior service life in heavy-duty applications. Clear window provides open-fuse indication.



SFR Lift truck fuseholder. Use with ANN and ANL fuses.

HMID FUSEBLOCK Use with AMI fuses from

40 to 80 amps. Multiple blocks can be linked together to form an assembly.

AMI FUSES

These high-amp fuses are used in power distribution protection for automotive systems on some late model cars. AMI fuses are available in ampere ratings: 50A, 80A and 100A.



AMG FUSES

Used for high current (100A – 300A) applications on selected late model vehicles. AMG fuses are available in ampere ratings from 100A to 300A. A fuseblock with splash-proof cover is also available.

HMEG FUSEHOLDER

Use with AMG fuses from 100 to 300 amps. Recommended wire size #2-8. HMEG fuseholders have full-access design for ease of wiring - wire can be routed to the studs from nearly any direction. HMEG is impact resistant and has durable plastic base and cover.



Developed to meet the growing OEM demand for low-profile components, the FMX Female Maxi fuse offers high-ampere protection in a compact package. FMX fuses are available in ampere ratings from 20A to 60A.



FUSIBLE LINKS

Color Code	FLB	FLD	FLF	FLM	FLN	FLS
Light Blue			20			
Pink	30	30	30	30		30
Green	40	40	40		30	40
Red	50	50	50			
Yellow	60		60	60		
Brown	70				25	
Black	80	80		80		
Blue	100	100		100		
Gray	120			120		
Maroon	140					
FMX FEI	MAL	E M	AXI			

Blue	20
Pink	30
Green	40
Red	50
Yellow	60

Add BP/ before part number when ordering carded product. Current price sheet lists all BP/ parts that are available. 7

Buss offers the industry's largest selection of automotive circuit breakers including both OEM-style and fuse-replacement devices.

Circuit breakers are designed to offer a variety of performance characteristics including three types of reset. (NOTE: Always follow the OEM's recommendations when replacing circuit breakers. Replace only with the same type breaker in aftermarket applications.)

• Type I – Automatic reset Circuit breaker automatically resets after opening. If the fault still exists, the breaker will continue to cycle between ON and OFF positions until the overload is corrected. These devices are sometimes called "cycling breakers." Several Buss Type I breakers feature brass-colored bodies.

• Type II – Modified reset

> The circuit breaker will remain tripped (in the OFF position) as long as there's power to the circuit, due to an internal resistor. Type II breakers can be reset by turning off the circuit, or by turning off the ignition switch. These devices are sometimes called "non-cycling breakers." Several Buss Type II breakers feature silver-colored bodies.

• Type III – Manual reset The circuit breaker will remain tripped (in the OFF position) until an indicator button or lever is manually reset. Type III breakers are also available with a switchable feature, which allows you to use an external button to disable the circuit. Bussmann circuit breakers feature our patented Fail-Safe technology – offering an innovative element design which combines the resetable performance of circuit breakers with the short-circuit protection of a fuse.

- Resetable, to work like a normal "cycling" breaker, in low overload conditions.
- Under severe overload or shortcircuit conditions, the breaker's element will open to prevent damage to the circuit.



PANEL-MOUNTED BREAKERS

Used in trucks, RVs, boats, buses, etc. offered with .25" Q.C. or 90° bent terminals.

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FUSE REPLACEMENT BREAKERS

CBF circuit breakers can be used to replace glass fuses in $\frac{1}{4''} \times \frac{11}{4''}$ fuse blocks.

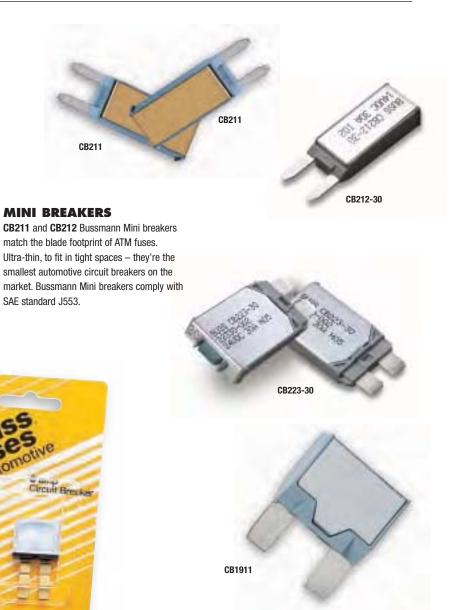




STUD-MOUNTED BREAKERS Type III 24 volt plastic circuit breaker. Two 10-32 studs with bracket crosswise to breaker body. Amps available - 10, 15, 20. 30. 40 & 50. Same Type III 24 volt breaker as CB123-B, with bracket lengthwise to breaker body. Amps available - 10, 15, 20, 30, 40 & 50. Type I 24 volt plastic circuit breaker. Two 10-32 studs with bracket crosswise to breaker body. Amps available - 15, 20, 30 & 50 Heavy duty Type I 12 volt breaker. Two 10-32 threaded studs and brass-plated battery terminal. Amps available - 8, 10, 15, 20, 25, 30, 35, 40 & 50 Same Type I 12 volt breaker as CBC, with the addition of a small mounting bracket welded securely crosswise to breaker body. Amps available - 8, 10, 15, 20, 25, 30, 35, 40 & 50 A waterproof version of the CBC-B Type I 12 volt breaker featuring a waterproof sealant and insert-molded studs. Suitable for marine applications or trailer connects, etc. Amps available - 20, 25 & 30 Same Type I 12 volt breaker as CBC, with the addition of a small mounting bracket welded securely lengthwise to breaker body. Amps available - 10, 15, 20, 25, 30, 40 & 50 Type | 12 yolt circuit breaker. One 10-32 stud .56 (BAT), double .250 QC (AUX). Amps available - 10, 15, 20 & 30 Type I 12 volt circuit breaker. Same breaker as CBD with the addition of a mounting bracket welded securely crosswise to breaker body. Amps available -15, 20 & 30 Type I 12 volt plastic breaker. Two 10-32 studs with bracket lengthwise to breaker body. Amps available - 10, 15, 20, 25, 30, 35, 40 & 50 Type I 12 volt plastic breaker. Two 10-32 studs with bracket crosswise to breaker body. Amps available - 10, 15, 20, 25, 30, 40 & 50 Standard duty Type II 12 volt breaker. Two 10-32 threaded studs. Amps available - 6, 10, 15, 20, 25, 30 & 40 **FUSE REPLACEMENT BREAKERS** Type II 12 volt breaker. Amps available 6, 10, 15, 20, 25, 30, 35 & 40 **PANEL-MOUNTED BREAKERS** Type III 32 volt circuit breaker with 1/4" QC terminals. Amps available - 10, 15, 20, & 30 Type III 32 volt breaker with #5-32 screws and 90° bent terminals. Amps available 10, 15, 20 & 30. **QUICK CONNECT BREAKERS** Type II breaker with two 1/4" blades 1" centers. Fits Mack breaker blocks. Amps available - 10, 15, 20, 25, & 30. Type II breaker with two 1/4" blades 1.08" centers. Fits Navistar breaker blocks. Amps available - 10, 15, 20, 25, & 30. Type I 12 volt circuit breaker with two 1/4' QC terminals on .99" centers. Amps available - 6, 10, 15, 20 & 30 Same Type I 12 volt breaker as CBU, with the addition of a small mounting bracket welded securely crosswise to breaker body Available in 30 amp. Add BP/ before part number when ordering carded product. Current price sheet lists all BP/ parts

Blade style circuit breakers offer interchangeability with commonly used blade style fuses, such as ATC, ATM and MAXI. Bussmann blade style circuit breakers are available in several reset modes that correspond to SAE categories: SAE Type I (automatic reset), SAE Type II (modified reset) and SAE Type II (modified reset) and SAE Type III (manual reset). All Bussmann blade style circuit breakers utilize carefully designed and manufactured snap-acting thermal elements with precious metal electrical contacts.

PLUG IN TYPE BLADE CIRCUIT BREAKERS



MAXI BREAKERS

Identical in size to Maxi-style fuses. The only breakers on the market to match the Maxi's footprint and body dimensions. **CB1911** and **CB1921** can be used to replace Maxi fuses in any application.

Carcant Broutwest

NON-CHER DE-

MUE



12 Fuseholders

Buss offers a complete line of fuseholders – to install either blade or glass-style fuses.

Choose waterproof or splashproof versions for extra protection in special applications.

Three types of connectors are available to meet the needs of jobbers and do-it-yourselfers alike:

- Wire loop. To install, simply cut the wire, strip ends and attach each end to the circuit. Requires the use of additional connectors.
- Crimp-On. Strip wire and insert into fuseholder. Crimp the connections tightly, and you're done. No additional hardware needed.
- Self-stripping. Easy to install: simply locate fuseholder at a convenient spot along the wire. Snap fuseholder closed around wire to pierce insulation automatically.
- Quick Connect. Attach fully insulated female push-on terminal onto the ¼" Q.C. terminal.

When selecting a fuseholder, always match the device to the wire being fused. Using an undersized fuseholder will increase electrical resistance in the circuit and reduce performance. NOTE: Never install a fuse larger than specified for the holder.



GLASS TUBE







PANEL MOUNT







НКР-НН

Bussmann[®] 13

ATC FUSEHOLDERS

HHC HHD	
	Yellow fuseholder, 1-20 amps, #16 lead wire
	Black fuseholder, 1-30 amps, #12 lead wire ¹
HHD-C	Cover only – fits HHC or HHD
HHD-30 HHF	Same as HHD, with ATC-30 fuse ¹ Fuseholder with protective cap. 3-20
nnr	amps, #16 lead wire ¹
HHG	Heavy-duty fuseholder with protective cap,
	3-30 amps, #12 lead wire ¹
HHR	ATC style waterproof fuseholder with
	locking cap and mounting hole, 12 gauge leads 5" long, 30 amp.
	FUSEHOLDERS
ннх	Fuseholder with cover, 20-60 amps, #6 lead wire ¹
ННХ-В	Body only, 20-60 amps, #6 lead wire ¹
HHX-C	Cover only
	USEHOLDERS
HHL	
HHL	Fuseholder with cover, 2-20 amps, #16 lead wire ¹
HHL-B	Body only, 2-20 amps, #16 lead wire ¹
ннм	Fuseholder with cover, 2-30 amps, #12
	lead wire ¹
HHM-B	Body only, 2-30 amps, #12 lead wire ¹
HHM-C	Cover only
GLASS	TUBE FUSEHOLDERS
Fuseholder	Only – With Wire Loop Leads
НМК	AGC fuses up to 30 amp maximum (and SF
HRK	20), #12 lead wire ¹ Universal holder, with springs to adapt to
IUUV	different fuse lengths, 15A, #14 lead wire ¹
ННК	Universal nylon twist-lock fuseholder, for AG
	AGA, AGW, AGX & SFE fuses, 20A, #14 lead wir
	r With Fuses – Wire Loop Leads
HMJ	SFE-20 fuse, 20A, 8" of #14 lead wire ¹
HRH HRI	SFE-9 fuse, 20A,19" of #14 lead wire ¹ SFE-14 fuse, 20A,19" of #14 lead wire ¹
HRJ	SFE-20 fuse, 20A,19" of #14 lead wire
HHN	Nylon heavy-duty fuseholder with AGC-30
	fuse, 30A, #12 lead wire ¹
	r Only – Crimp Type Connectors
HHB	Universal fuseholder in high visibility yellow. Accepts fuses to 30 amps #12 to #18 leads
	(not included) ¹
	Self-stripping ATC fuseholder in royal blue.
HHS	
HHS	Accepts fuses to 20 amps #18 to #14 AWG
-	Accepts fuses to 20 amps #18 to #14 AWG copper wire only!
Waterproof	Accepts fuses to 20 amps #18 to #14 AWG copper wire only ¹ Fuseholder – Crimp Type Connectors
-	Accepts fuses to 20 amps #18 to #14 AWG copper wire only ¹
Waterproof	Accepts fuses to 20 amps #18 to #14 AWG copper wire only ¹ Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads
Waterproof HFA HFB	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included) ¹
Waterproof HFA HFB	Accepts fuses to 20 amps #18 to #14 AWG copper wire only ¹ Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads
Waterproof HFA HFB	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included) ¹ MOUNT FUSEHOLDER
Waterproof HFA HFB PANEL	Accepts fuses to 20 amps #18 to #14 AWG copper wire only' Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included) ¹ MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut
Waterproof HFA HFB PANEL For 1/4" × HTB-26I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut mounting; ¼″ 0.C. terminations, 20 amp ²
Waterproof HFA HFB PANEL For ¼" ×	Accepts fuses to 20 amps #18 to #14 AWG copper wire only ¹ Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included) ¹ MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut mounting; ¼″ 0.C. terminations, 20 amp ² Low-profile cover knob with flathead
Waterproof HFA HFB PANEL For 1/4" × HTB-26I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut mounting; ¼″ 0.C. terminations, 20 amp ²
Waterproof HFA HFB PANEL For 1/4" × HTB-26I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included) ¹ MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut tangle 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut
Waterproof HFA HFB PANEL For ¼″ × HTB-26I HTB-38I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut mounting; 1¼″ 0.C. terminations, 20 amp ² Low-profile cover knob; rear hexnut mounting; right angle 0.C. terminations, 20 amp ² Low-profile cover knob; ront hexnut mounting; right angle 0.C. terminations,
Waterproof HFA HFB PANEL For 1/4" × HTB-26I HTB-38I HTB-68I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; 1¼" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle 0.C. terminations, 20 amp ²
Waterproof HFA HFB PANEL For ¼″ × HTB-26I HTB-38I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼″ fuses Low-profile cover knob; rear hexnut mounting; ¼″ 0.C. terminations, 20 amp ² Low-profile cover knob with flathead screwdriver slot; rear hexnut mounting; right angle 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle 0.C. terminations, 20 amp ² Low profile cover knob; through-hole
Waterproof HFA HFB PANEL For 1/4" × HTB-26I HTB-38I HTB-68I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; 1¼" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle 0.C. terminations, 20 amp ²
Waterproof HFA HFB PANEL For 1/4" × HTB-26I HTB-38I HTB-68I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; 1⁄4" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle Q.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle Q.C.
Waterproof HFA HFB PANEL For ¼" × HTB-261 HTB-381 HTB-681 HTB-881	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle 0.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle 0.C. terminations, 20 amp ²
Waterproof HFA HFB PANEL For ¼" × HTB-261 HTB-381 HTB-681 HTB-881	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle 0.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle 0.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ²
Waterproof HFA HFB PANEL For 1/4" × HTB-26I HTB-38I HTB-68I HTB-68I HTB-88I HKP-HH	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; 1¼" 0.C. terminations, 20 amp ² Low-profile cover knob; throuth flathead screwdriver slot; rear hexnut mounting; right angle 0.C. terminations, 20 amp ² Low-profile cover knob; throuth havnut mounting; right angle 0.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle 0.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; 1/4" 0.C. terminals, 15 amp ²
Waterproof HFA HFB PANEL For ¼" × HTB-26I HTB-38I HTB-68I HTB-88I HTB-88I	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; 1¼" 0.C. terminations, 20 amp ² Low-profile cover knob; throuth flathead screwdriver slot; rear hexnut mounting; right angle 0.C. terminations, 20 amp ² Low-profile cover knob; throuth havnut mounting; right angle 0.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle 0.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; V4" 0.C. terminals, 15 amp ²
Waterproof HFA HFB PANEL For 1/4" × HTB-261 HTB-381 HTB-681 HTB-681 HTB-881 HKP HKP-HH	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob with flathead screwdriver slot; rear hexnut mounting; right angle Q.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle Q.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle Q.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; V/" Q.C. terminals, 15 amp ² 0 Volt
Waterproof HFA HFB PANEL For 1/4" × HTB-261 HTB-381 HTB-681 HTB-681 HTB-881 HKP HKP-HH	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob with flathead screwdriver slot; rear hexnut mounting; right angle Q.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle Q.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle Q.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; V4" Q.C. terminals, 15 amp ² 0 Volt before part number when
Waterproof HFA HFB PANEL For ¼" × HTB-261 HTB-381 HTB-681 HTB-681 HTB-881 HKP HKP-HH	Accepts fuses to 20 amps #18 to #14 AWG copper wire only! Fuseholder – Crimp Type Connectors Accepts AGC, MDL fuses, 20A, #12 to #16 leads (not included) ² Accepts fuses to 30 amps #12 to #18 leads (not included)! MOUNT FUSEHOLDER 1¼" fuses Low-profile cover knob; rear hexnut mounting; ¼" 0.C. terminations, 20 amp ² Low-profile cover knob with flathead screwdriver slot; rear hexnut mounting; right angle Q.C. terminations, 20 amp ² Low-profile cover knob; front hexnut mounting; right angle Q.C. terminations, 20 amp ² Low profile cover knob; through-hole snap-in mounting; right angle Q.C. terminations, 20 amp ² High profile cover knob; rear hexnut mounting; solder terminals, 30 amp ² High profile cover knob; rear hexnut mounting; V/" Q.C. terminals, 15 amp ² 0 Volt

Designed for versatility, durability and ease-of-installation, Bussmann fuseblocks deliver the ideal solution for virtually any application. Bussmann fuseblocks are molded of high-performance thermoplastic, and feature high quality hardware in a choice of connector styles.





S-8202 – Fuseblocks with ¼″ quick-connect terminals 300 volt rating. Available in 1 through 12 position units. Break-away design lets you snap off or combine positions as needed to get the exact number required for your application. UL recognized, 20 Amp max.

S-8301 – Fuseblocks with screw connect terminals 300 volt rating. Available in 1 through 12 position units. Break-away design lets you snap off or combine positions as needed to get the exact number required for your application. UL recognized, 30 Amp max.

15600 – Fuse panels for blade-type fuses. A single, common power input makes it simple to wire for multiple circuits – each rated to 30 amps, up to 32 volts. Molded of high grade thermoplastic, for superior performance. Quick-connect terminals for easy installation. Recessed fuse contacts provide touch-safe protection.



BP/BAT-TAP – attaches directly to battery terminal, to create three additional circuits.



The **FT-3** combination fuse tester and fuse puller is designed for easy one-handed use. It tests glass and blade fuses in or out of the fuseblock. This continuity tester is for fuses in circuits up to 24V maximum. Light glows when fuse is good.



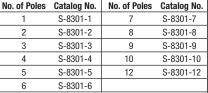
Remove automotive fuses quickly and easily with the **FP-A3** fuse puller. The innovative tool design lets you remove or install both blade-type and glass fuses.

FUSE PANEL GUIDE

Bussmann[®]

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FUSE F	ZANIEL	U	UIDE	
FUS		C	ATALOG I	NUMBERS
POSITI	ONS	S	hort Base	Long Base
6		15	600-06-20	15600-06-21
8		15	600-08-20	15600-08-21
10		15	600-10-20	15600-10-21
12		15	600-12-20	15600-12-21
FUSEB	LOCK	G	UIDE	
1/4" QUICK CONNECT TERMINALS				
No. of Poles	Catalog I	No.	No. of Poles	s Catalog No.
1	S-8202-	1	7	S-8202-7
2	S-8202-	2	8	S-8202-8
3	S-8202-	3	9	S-8202-9
4	S-8202-	4	10	S-8202-10
-				
5	S-8202-	5	12	S-8202-12
-			12 TERMIN	
-		PE		ALS



Add BP/ before part number when ordering carded product. Current price sheet lists all BP/ parts that are available.



Bussmann offers a complete line of flashers for a wide variety of applications. All Bussmann flashers meet SAE standards and other applicable state and federal guidelines.

To select the proper replacement flasher, match these three specifications:

 Specific vs. Variable load.
 Specific load flashers are designed to flash only a certain number of lamps. Variable load flashers can handle a range of amperages, such as is required with a trailer in tow.

- Lamp capacity. Designates the total number of lamps in the circuit for the left or right directional signal.
- Number of terminals. Select either a two or three blade flasher, to match the socket in the panel.



THERMAL FLASHERS

Thermal design uses heat build-up to flash circuit on and off.

- Features an audible click, alerting driver that a directional signal is engaged.
- Generally used in older model year vehicles.
- Operates correctly under variable load flashing the designated vehicle lamps only; or additional lamps when a trailer is in tow.
- · Does not indicate lamp outage.



NO.575



SUPER HEAVY-DUTY ELECTRONIC FLASHERS

- Provides variable load functionality in heavy-duty applications.
- Replacement flasher for domestic cars, light trucks and vans.
- Electronic design provides superior service life.

TROUBLESHOOTING GUIDE

SYMPTOM	SOLUTION
Signal lamps light, but don't flash.	Check and/or replace flasher.
Signal lamps do not operate on either side of vehicle.	Check and/or replace fuse.
Both signal lamps are out on one side of vehicle.	 Check for bad lamps. Check grounding and wiring from turn signal lever.
One signal lamp is out on one side of vehicle.	Check and/or replace lamp.
Signal lamp flashes too rapidly on one side of vehicle.	 Check and/or replace lamps. Check whether the proper lamp is installed. (A heavy-duty lamp in a standard circuit will flash too rapidly.)
Signal lamp flashes too slowly on one side of vehicle.	 Check whether the proper lamp is installed. (A standard lamp in a heavy-duty circuit will flash too slowly.)

Flashers and lamps are the source of most problems with directional signals. But many other conditions can cause malfunctions, too: loose or corroded connections; inadequate grounding of the turn signal switch; worn turn signal lever, etc.

No. of Terminals

Amps (Max.)

No. of Bulbs

HEAVY-DUTY ELECTRONIC FLASHERS

- These flashers rely on electronic circuitry not heat to operate. Excellent performance in extreme climates.
- · Original equipment on many late-model cars and light trucks - both domestic and imported.
- Direct plug-in replacement. No adapter required.
- Flashes at twice the normal speed to indicate lamp outage, and features an audible click when engaged.
- Electronic design provides superior service life.









THERMAL NO.760

Catalog No.

Volts

NO.550	12	3	12.8	2-6
N0.552	12	2	12.8	2-6
N0.575	12	2	12.8	1-8
HEAVY-	DUTY	ELECTR	ONIC	
Catalog No.	Volts	No. of Terminals	Amps (Max.)	No. of Bulbs
NO.243	12	2	25	12
NO.244	12	3	25	12
NO.246	12	3	25	*
NO.756	12	3	12.6	2-6
NO.757	12	3	12.6	2-6
N0.758	12	3	12.6	2-6
N0.759	12	3	12.6	3-6
N0.760	12	3	12.6	2-6
NO.761	12	3	12.6	2-6
N0.762	12	4	12.6	3-6
N0.763	12	2	12	16
NO.764	12	2	12	20
NO.850	12	3	25	10 HZ
				5 TS
N0.852	12	2	35	16 HZ
				8 TS

SUPER HEAVY-DUTY ELECTRONIC Catalog No. **Volts** No. of Terminals Amps (Max.) No. of Bulbs N0.232 12 2 20 1-10 NO.233 12 3 20 1-10 24 1-10 NO.234 3 20

Add BP/ before part number when ordering carded product. Current price sheet lists all BP/ parts that are available.

*Alternating

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Make your selling space work harder – with America's bestknown name in fuses.

Buss carded fuses are thin providing almost twice the pack-out on pegboard displays as any other brand.

Easy to planogram, too: all fuse packs come on the same size card $(2^{3}/4'' \times 4^{3}/4'')$. Most popular fuseholders also use the same size card $(2^{3}/4'' \times 5^{3}/4'')$.

Easy to order, just add "BP/" in front of the catalog number.



Bussmann [®]	19
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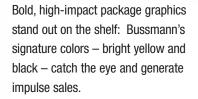
CARDED I	FUSES
Catalog No.	Amp Sizes Available
BP/AGA	2, 3, 5, 71/2, 10, 15, 20, 30
BP/AGC	¹ / ₂ , ³ / ₄ , 1, 1 ¹ / ₂ , 2, 2 ¹ / ₂ , 3, 4, 5, 6,
BB/4011	71/2,10, 15, 20, 25, 30, 35
BP/AGU	10, 15, 20, 25, 30, 35, 40, 50, 60
BP/AGW	71/2, 15, 20, 30
BP/AGX	20, 25, 30
BP/ATC	1, 2, 3, 4, 5, 7½, 10, 15, 20, 25, 30, 40
BP/ATM	2, 3, 4, 5, 7½, 10, 15, 20, 25, 30
BP/GBC	5, 8, 15, 16, 25
BP/MAX	20, 30, 40, 50, 60, 70, 80
BP/SFE	4, 6, 71/2, 9, 14, 20, 30
CONVENI	ENCE ASSORTMENTS
Catalog No.	Qty. Contents
BP/AGA-AH	AGA - 10, 15, 20(2), 30(2)
BP/AGA-AL	AGA - 1, 2, 3, 5(2), 71/2
BP/AGW-A	AGW - 71/2, 15(2), 20(2), 30
BP/AGX-A	AGX - 20(2), 25(2), 30(2)

SFE - 14(2), 20(2), 30

SFE - 4, 6 71/2(2), 9(2)

BP/SFE-AH

BP/SFE-AL



5

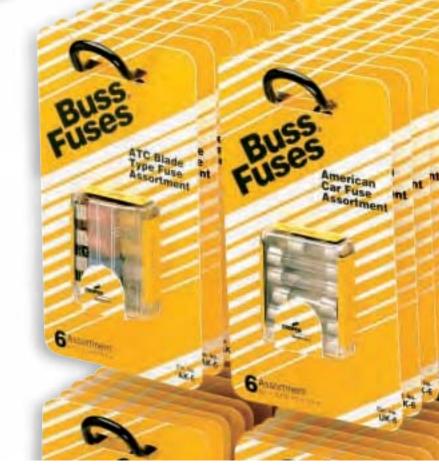
ATC-4

PIR

AGC-1/2

The new "blisterless" card is environmentally-friendly. It's the fuse category's only 100% biodegradable package.

Minimize handling costs – self-service selection instructions are printed on every card.



Em

Bruse

FD.43

6 Fune Assartment

ATM: Automotive Diagnostic Kit

6 3

mencau Car

Build impulse sales with fuse kits. A great way to remind consumers to keep spare fuses on hand.

Use kits to merchandise multiple locations in your store – to generate new sales and profits from unused selling space.

FUSE KITS AND ASSORTMENTS

Emerge	ncy Fuse Kits with Fuse Puller
Catalog No.	Contents
AT-7	Blade Type ATC-5, 10, 15, 20, 25, & 30
DIA-1	ATC Diagnostic Kit ATC-5, 10, 15, 20, 25, 30 & FT-3 combination fuse tester/puller
DIA-2	ATM Diagnostic Kit ATM-2, 5, 7½, 10, 15, 20, 25, 30 & FT-3 combination fuse tester/puller
EK-7	American Car AGC-5, 15 & 30; SFE-9, 14, & 20
KB-7	British Car AGC-71/2, 15, 20, 25, & 30
KG-7	German Type GBC-5, 8(2), 16, & 25
KJ-7	Japanese Car Glass AGC-5, 10, 15, 20, & 30
KJA-7	Japanese Car Blade ATC-5, 71/2, 10, 15, 20, & 30
KM-9	Blade Type ATM-2, 5, 7½, 10, 15, 20, 25, & 30
MKA-6	Motorcycle Blade ATC-5, 71/2, 10, 15, & 20
MKG-7	Motorcycle Glass AGX-5, 8(2), 10, 15, & 20

Catalog No.	Contents
AK-6	Blade Type ATC-5, 10, 15, 20, 25, & 30
CB-5	Car Phone & Mobile Entertainment AGC-11/2, 2(2), 21/2, & 3
EF-5	Electric Fence AGC-1
HEF-1	Cellular Phones, Electronic Equipment and Stereos AGC-1(2), AGC-2, AGC-3(2)
HEF-2	Personal Computers and Peripherals MDL-1/2, 1, 2; GDC-1, 2
KE-5	British Car AGC-71/2, 15, 20, 25, & 30
KG-5	German Type GBC-5, 8(2), 16, & 25
KJ-5	Japanese Car Glass AGC-5, 10, 15, 20, & 30
KJA-6	Japanese Car Blade ATC-5, 71/2, 10, 15, 20, & 30
KM-8	Blade Type ATM-2, 5, 7 ¹ / ₂ , 10, 15, 20, 25, & 30
MKA-5	Motorcycle Blade ATC-5, 71/2, 10, 15, & 20
MKG-6	Motorcycle Glass AGX-5, 8(2), 10, 15, & 20
UK-6	American Car AGC-5, 15 & 30, SFE-9, 14, & 20

Fuse Assortments

Buss. Fuses		
FUS ATM Minit-Fuso Assourcent	Buss Fuses	
Assortment	the second se	Automatican Southernorm Fuses
6 Assortine		ASes ASes ASC Hose ASC Hose ASC Hose ASC Hose ASC Hose ASC Hose ASC Hose ASC HOSE
	6 Automation	
B	USS.	No.
Fus	Berschei Compiters	
	TE	
Selection and a selection of the selecti		

HEFS

8 Assovtment

Increase the "total ring" on your fuse assortment sales – with Bussmann large-count fuse packages.

Bussmann Retail Assortments are great for small shops, do-it-yourself mechanics – or for stocking commercial/service vehicles.





BUSS BONUS PACKS

- Contains 42 blade type fuses -- seven each of the six most popular fuses from 5 to 30 amps.
- Fuses are loose-packed for easy access in reclosable heavy-duty clamshell package.
- Also included: FT-3 combination fuse tester/fuse puller.

N0.43 Contents: 7 each ATM-5, 10, 15, 20, 25 & 30

N0.44 Contents: 7 each ATC-5, 10, 15, 20, 25 & 30

NO.80 BUSS SUPER VALUE PACK (not shown)

- Contains 80 ATC blade type fuses ten each of the eight most popular fuses, from 3 to 30 amps.
- Fuses are loose-packed for easy access

 and extra value. Reclosable, heavyduty clamshell package stores easily in tool boxes.



Put unused counter space to work...or turn empty shelf space into a profit generator with an attractive, eye-catching Automotive Fuse Display from Bussmann. These displays feature bright header graphics. Automotive Fuse Displays are available in three styles, each complete with a best-selling fuse assortment.

AFR-100

AFR-100 designed for use on pegboard or slotted in H-type pallet racks.

Buss Fuse Center Automotive



AFR-150 freestanding or wall mountable display complete with header card.





DISPLAY CONTENTS					
POG-25		AFR-100			
Catalog No.	Cards	Catalog No.	Cards		
AK-6	5	UK-6	10		
UK-6	5	AK-6	10		
KG-5	5	KM-8	10		
KJ-5	5	BP/AGC-20	10		
KM-8	5	BP/AGC-30	10		
BP/AGC-3	5	BP/ATC-10	10		
BP/AGC-10	5	BP/ATC-15	10		
BP/AGC-15	5	BP/ATC-20	10		
BP/AGC-20	5	BP/ATC-25	10		
BP/AGC-25	5	BP/ATC-30	10		
BP/AGC-30	5	AFR-150			
BP/ATC-3	5	AFR-150			
BP/ATC-4	5				
		Catalog No.	Cards		
BP/ATC-5	5	Catalog No. AK-6	Cards 10		
BP/ATC-5 BP/ATC-7½	5 5				
BP/ATC-5 BP/ATC-7½ BP/ATC-10	5 5 5	AK-6	10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15	5 5 5 5	AK-6 UK-6	10 10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15 BP/ATC-20	5 5 5 5 5	AK-6 UK-6 KJ-5	10 10 10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-25	5 5 5 5 5 5 5	AK-6 UK-6 KJ-5 KM-8	10 10 10 10		
BP/ATC-5 BP/ATC-7 ¹ /2 BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-25 BP/ATC-30	5 5 5 5 5 5 5 5 5 5 5 5	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10	10 10 10 10 10 10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-25 BP/ATC-30 BP/ATC-30 BP/FP-A3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15	10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-25 BP/ATC-25 BP/ATC-30 BP/ATC-30 BP/FP-A3 BP/HHD	5555555555555	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15 BP/AGC-20	10 10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-7½ BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-20 BP/ATC-30 BP/ATC-30 BP/FP-A3 BP/FHD BP/HHM	5555555555555555	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15 BP/AGC-20 BP/AGC-25	10 10 10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-71/2 BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-20 BP/ATC-30 BP/ATC-30 BP/FHD BP/HHD BP/HHM BP/HMK	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15 BP/AGC-20 BP/AGC-25 BP/AGC-30	10 10 10 10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-71/2 BP/ATC-15 BP/ATC-15 BP/ATC-20 BP/ATC-20 BP/ATC-30 BP/ATC-30 BP/ATC-30 BP/FP-A3 BP/HHM BP/HHM BP/SFE-20	555555555555555555555555555555555555555	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15 BP/AGC-20 BP/AGC-25 BP/AGC-30 BP/ATC-10	10 10 10 10 10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-71/2 BP/ATC-10 BP/ATC-15 BP/ATC-20 BP/ATC-20 BP/ATC-30 BP/ATC-30 BP/FHD BP/HHD BP/HHM BP/HMK	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AK-6 UK-6 KJ-5 BP/AGC-10 BP/AGC-15 BP/AGC-20 BP/AGC-20 BP/AGC-30 BP/ATC-10 BP/ATC-15	10 10 10 10 10 10 10 10 10 10 10 10		
BP/ATC-5 BP/ATC-71/2 BP/ATC-15 BP/ATC-15 BP/ATC-20 BP/ATC-20 BP/ATC-30 BP/ATC-30 BP/ATC-30 BP/FP-A3 BP/HHM BP/HHM BP/SFE-20	555555555555555555555555555555555555555	AK-6 UK-6 KJ-5 KM-8 BP/AGC-10 BP/AGC-15 BP/AGC-20 BP/AGC-25 BP/AGC-30 BP/ATC-10 BP/ATC-15 BP/ATC-20	10 10 10 10 10 10 10 10 10 10 10 10 10		

POG-25

Build your fuse profits with high-impact planogram merchandiser. Bold, dynamic graphics will get your fuse inventory noticed – and drive impulse sales.

Planogram provided free with merchandiser to help you create the most profitable fuse inventory for your store. Turn any pegboard or shelf into a profit-building professional fuse center—with interlocking tilt-bin sets from Bussmann. Bin rows are stocked with assortments of the fastest-selling fuses, holders and accessories. Transparent, tilt-out bins make selection a snap, and lets you check inventory at a glance. Order the complete Fuse Center unit – or any combination of bin rows.

Reload part numbers are available for AFC-225, NO.225 and NO.227. The reloads are packed in a polybag labeled with the part number and UPC code.

Bins can be stacked in any combination so you can modify your display to fit your customer's needs.





All seven units stacked together provide a complete fuse selection for the automotive repair technician. Bins interlock and can be wall mountable. Order header card separately – Catalog No. 1A9965.

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BIN DISPLAYS

BIN L	JISPLATS
AFC-90	2 bin sets containing an assortment of MAX- 20, 30, 40, 50, 60; FLB-30, 40, 60, 80, 100; FLF-20, 30, 40, 60; FLM-30, 60, 80, 100
AFC-225	25 each glass type fuses, (AGC-5, 10, 15, 20, 25 & 30; SFE-14, 20 & 30)
NO. 225	25 each ATC blade type fuses 3, 4, 5, $71\!\!/_2$, 10, 15, 20, 25 & 30
NO. 227	10 each ATM blade type fuses 2, 3, 5, 7½, 10, 15, 20, 25 & 30
NO. 235	5 each CBB-30, CBF-20, CBF-30, UCB-10, UCB-15, UCB-20, UCB-25, UCB-30 2 each CBC-30B
NO. 236	5 each HHB, HHD, HHG, HHM, HHN, HMK
TEFC	3 each NO.232 and NO.233; 5 each NO.550 and NO.575; 10 each NO.552
25 CC	OUNT RELOAD PACKAGES
ATC-(AMP)) RLD 3 to 30 amps
AGC-(AMP) RLD 5 to 30 amps
SFE-(AMP)	RLD 14, 20 and 30 amps
10 CO	UNT RELOAD PACKAGES
ATM-(AMP) RLD 2 to 30 amps
FL catalog	
To rofill MC) 005 NO 006 and TEEC order standard

To refill NO.235, NO.236 and TEFC, order standard carton quantities.

Make the most of your selling space with compact, eye-catching Fuse Assortment displays.

Sturdy, serviceable displays make it easy to merchandise an assortment of automotive fuses.

Display rack slots are labeled – to make reordering easy.

Stocked with fast-moving fuse part numbers – to produce attractive inventory turns.

The sturdy one piece (no assembly required) rack comes free with all Buss display stands.



NO.150 ATM FUSES 20 Tins (100 fuses) ATM starter display assortment includes all

amps and plenty of room for expansion. Comes complete with inventory/reorder feature.



NO.245 MAX FUSES 12 Tins (12 fuses) Max wiring harness starter display with slots available for growth. Comes complete with

inventory/reorder feature.



NO.500 GLASS TUBE AND BLADE-TYPE ASSORTMENT

100 Tins (480 fuses) A complete and well-balanced stock. Meets every service need for American and foreign cars and trucks, new and old. Comes complete with inventory/reorder feature.



NO.104 ATC FUSES

20 Tins (100 fuses) ATC starter display has assortment of most popular amps and offers room for growth and expansion. Comes complete with inventory/reorder feature.

NO.200 GLASS TUBE AND BLADE-TYPE FUSES 40 Tins (172 fuses)

The most popular display stand offers a variety of glass and blade fuses for every service need. Inventory/reorder feature.





DISPLAY CONTENTS

Bussmann[®]

	F 6/			HNIE			
	NO.	104			NO.	245	
	TINS		TINS		TINS		TINS
ATC-3	1	ATC-15	2	MAX-20	1	MAX-50	2
ATC-4	1	ATC-20	6	MAX-30	2	MAX-60	2
ATC-5	1	ATC-25	3	MAX-40	5		-
ATC-71/2	1	ATC-30	3		-		
ATC-10	2				NO.	500	
	NO.	150			TINS		TINS
	TINS		TINS	AGA-5	1	ATC-30	7
ATM-2	1	ATM-10	5	AGA-20	1	ATM-2	1
ATM-2	1	ATM-10 ATM-15	э 3	AGC-1	1	ATM-3	1
ATM-3	1	ATM-15	3	AGC-2	1	ATM-4	1
ATM-4	1	ATM-20 ATM-25	2	AGC-3	2	ATM-5	1
ATM-5	2	ATM-23	1	AGC-4	1	ATM-71/2	1
ATW-1 /2	2	ATM-50	'	AGC-5	2	ATM-10	1
	NO.	200		AGC-71/2	1	ATM-15	1
				AGC-10	2	ATM-20	1
	TINS		TINS	AGC-15	2	ATM-25	1
AGC-1	1	ATM-2	1	AGC-20	6	ATM-30	1
AGC-2	1	ATM-3	1	AGC-25 AGC-30	2	GBC-8	1
AGC-3	1	ATM-4	1		1	GBC-16	1
AGC-5	1	ATM-5	1	AGC-35		GBC-25	1
AGC-71/2	1	ATM-71/2		AGW-15	1	MAX-20	1
AGC-10	1	ATM-10	1	AGW-20	1	MAX-30	1
AGC-15	1	ATM-15	1	AGX-20	1	MAX-40	1
AGC-20	1	ATM-20	1	AGX-30	1	MAX-50	1
AGC-25	1	ATM-25	1	ATC-3	1	MAX-60	1
AGC-30	1	ATM-30	1	ATC-4	1	SFE-4	1
ATC-3	1	GBC-8	1	ATC-5	2	SFE-6	1
ATC-4	1	MAX-20	1	ATC-71/2	1	SFE-71/2	1
ATC-5	1	MAX-30	1	ATC-10	5	SFE-9	1
ATC-71/2	1	MAX-40	2	ATC-15	7	SFE-14	1
ATC-10	1	MAX-50	1	ATC-20	8	SFE-20	6
ATC-15	1	MAX-60	2	ATC-25	4	SFE-30	1
ATC-20	2	SFE-14	1				
ATC-25	1	SFE-20	i			plays (ra	
ATC-30	1			with I	inven	tory stri	DS)
	NO.	204				le. Ordei	:
	TINS		TINS	EN	IPTY-	NO.200	
ATC-3	3	ATC-15	2	EN	IPTY -	NO.500	
ATC-4	2	ATC-20	12				
ATC-5	2	ATC-25	8				
ATC-71/2	2	ATC-30	3				
ATO 10	_		~				

ATC-10

6

NO.204 ATC FUSES

40 Tins (200 fuses) Complete assortment of fuses. Comes complete with inventory/reorder feature. Bussmann Box Fuse Assortments provide the perfect inventory solution for service vans, auto repair shops, oil & lube shops and more.

Durable, plastic boxes are great for tool boxes, or under-thecounter storage.

Choose from a variety of boxed fuse assortments, each packed with fast-moving fuse part numbers – so you'll always have the replacement fuse you need.

069	008-8	09F08 28F-80	090118	CEC 388	(80.00
28C-68	cac-ext	09001-16 0800-15	(693)-38 (983)-89	CR013-10 CR010-15	CHETE-C
(1) (1) (1) (2) (2) (2)	annit-m	109.00	UC3-10 2019-11	1004-20 1004-20	1.000-0



NO.271 CIRCUIT BREAKER KIT

wit Breake

29 Assorted Circuit Breakers for cars, light trucks and heavy-duty vehicles. Packaged in 18 cavity shatter-resistant plastic box with selection guide on inside lid.

N<mark>O.45</mark> FUSIBLE LINK KIT

16 Assorted Fusible Links for wiring harness protection. Comes in clear plastic display box with selection guide on inside lid.



NO. 160BK ATC BULK DISPLAY

Selection of 160 ATC blade fuses. Fuses are loosely packed in a 12 cavity, shatter-resistant plastic box.

NO.95BK ATC & ATM BULK DISPLAY

Selection of 95 ATC and ATM blade fuses. Fuses are packed loosely in a 12 cavity, shatter-resistant plastic box.

NO. 100BK ATC BULK DISPLAY

Selection of 100 ATC blade fuses. Fuses are loosely packed in a 12 cavity, shatter-resistant plastic box.

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	CRETS-OF CRETS-OF TRATS-OF	122.5	200212	-	-
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NO.271HD **HEAVY DUTY CIRCUIT BREAKER KIT**

28 Assorted Circuit Breaker Kit used by heavy duty repair technicians. Packaged in sturdy plastic case with hinged lid, handle and selection guide on inside lid.



NO. 101 20 Tins (100 fuses) Selection of AGC and SFE. Fuse tins are packed in plastic box with inventory strip on inside lid.

18 Tins (66 fuses)

NO.70

Selection of ATM and MAX fuses. Fuse tins are packed in plastic box with inventory strip on inside lid.

NO.90 ATC FUSES

18 Tins (90 fuses) Selection of ATC blade fuses. Fuse tins are packed in plastic box with inventory strip on inside lid.



NO.228, NO.229, NO.230, NO.231 **BULK FUSE ASSORTMENTS**

A space-efficient alternative for slower moving fuses. Ideal to supplement tilt bins in service centers or blister cards in retail environments.

NO.201 **GLASS TUBE AND BLADE-TYPE FUSES**

40 Tins (172 fuses) Selection of most popular glass tube and blade type fuses. Tins are packed in clear plastic service kit.



DIS	PL/	Y CC	DNT	ENTS			
	NO	.45			NO.	230	
	JSES	-	USES		ICTC	EU.	SES
FLB-40	1	FLF-60	1	AGA-3	10 10	ATM-2	10
FLB-60	1	FLM-80	1	AGA-20	10	ATM-3	10
FLB-70	1	FLM-100		AGC-6	10	ATM-4	10
FLD-80 FLF-20	1	FLS-30	1	AGC-8 AGC-35	10 10	GBC-25	10
FLF-20 FLF-30	1	FLS-40 FMX-20	1	AGC-40	10	SFE-4 SFE-6	10 10
FLF-40	1	FMX-30	1	AGW-30	10	SFE-71/2	10
FLF-50	1	FMX-40	1	AGX-2	10	SFE-9	10
	NO	.70		AGX-20	10		
	TINS		TINS	AGX-30	10		
ATM-2	1	ATM-25	1		NO.	231	
ATM-3	1	ATM-30	2	FU	SES	FU	SES
ATM-4 ATM-5	1	MAX-20	1	AGC-1	10	AGX-2	10
ATM-71/2	1	MAX-30 MAX-40	2 1	AGC-2	10	AGX-20	10
ATM-10	1	MAX-50	1	AGC-3 AGC-4	10 10	AGX-30	10
ATM-15 ATM-20	1	MAX-60	1	AGC-71/2	10	GBC-8 GBC-16	10 10
AIM 20				AGW-15	10	GBC-25	10
	NO	.90		AGW-20	10	SFE-4	10
	TINS		TINS	AGW-30	10	SFE-6	10
ATC-3	1	ATC-15	2	AGX-2 AGX-20	10 10	SFE-7½ SFE-9	10 10
ATC-4	1	ATC-20	5 3	AGX-30	10		
ATC-5 ATC-7½	1	ATC-25 ATC-30	3		NO.	271	
ATC-10	2				ISES		SES
	10.9	5BK		CB1911-1		CBC-20B	1
FU	JSES	F	USES	CB1911-2	0 1	CBC-30B	1
ATC-5	5	ATM-5	5	CB1911-3		CBC-40B CBC-50B	1 1
ATC-10	15	ATM-10	5	CB212-10 CB212-15		CBC-50B CBF-20	1
ATC-15 ATC-20	5 15	ATM-15 ATM-20	5 10	CB212-20	1	CBF-30	1
ATC-25	5	ATM-25	5	CB212-25		CCB-25 FCB-20	1 1
ATC-30	15	ATM-30	5	CB221-10 CB221-15		UCB-10	1
	NO.	100		CB221-20	1	UCB-15	1
			TINS	CB221-30 CBB-30	1	UCB-20 UCB-25	2 2
AGC-2	TINS 1	ATC-5	1	CBC-15B	1	UCB-25	2
AGC-2 AGC-3	1	ATC-5 ATC-10	1		• •		
AGC-5	1	ATC-15	1	N	0.2	7 1 HD	
AGC-10 AGC-15	1	ATC-20 ATC-25	1	FU	SES	FU	SES
AGC-20	1	ATC-25 ATC-30	1	CB185-10		CB223-30	1
AGC-25	1	GBC-8	1	CB211-20		CB1911-10	
AGC-30						CB1911-15 CB1911-20	i 1
	1	SFE-14	1	CB211-30 CB212-10			1
AGW-15		SFE-20	1 1	CB212-10 CB212-15	1 1	CB1911-30) 1
AGW-15 AGW-20	1 1 1	SFE-20 SFE-30	1	CB212-10 CB212-15 CB212-20	1 1 1	CB1911-30 CB1921-10) 1) 1
AGW-15 AGW-20	1 1 1	SFE-20	1 1	CB212-10 CB212-15	1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20) 1) 1 ; 1) 1
AGW-15 AGW-20 N	1 1 1	SFE-20 SFE-30 OOBK	1 1	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB212-30 CB221-20	1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-25) 1) 1 ; 1) 1 ; 1
AGW-15 AGW-20 N	1 1 1 0.1	SFE-20 SFE-30 OOBK	1 1 1	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB221-20 CB221-30	1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-25 CBC-10HB) 1) 1 i 1) 1 i 1 i 1 i 1 i 1
AGW-15 AGW-20 N FL ATC-1 ATC-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SFE-20 SFE-30 OOBK F ATC-10 ATC-15	1 1 5 5 5	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB221-20 CB221-30 CB221-30 CB222-10 CB222-15	1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-20 CBC-10HB CBC-15HB CBC-20HB) 1) 1) 1) 1) 1 1 1 1
AGW-15 AGW-20 N FU ATC-1 ATC-2 ATC-3	1 1 1 1 1 0.1 1 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-15 ATC-20	1 1 5 USES 15 5 15	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB221-20 CB221-30 CB222-10 CB222-15 CB222-15 CB223-10	1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-20 CBC-10HB CBC-10HB CBC-15HB CBC-20HB CBC-30HB) 1) 1) 1) 1 1 1 1 1
AGW-15 AGW-20 N FU ATC-1 ATC-2 ATC-3 ATC-4 ATC-5	1 1 1 JSES 5 5 5 5 5 5 15	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-20 ATC-25 ATC-30	1 1 1 USES 15 5 15 5 15	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB221-20 CB221-30 CB221-30 CB222-10 CB222-15	1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-20 CBC-10HB CBC-15HB CBC-20HB) 1) 1) 1) 1) 1 1 1 1
AGW-15 AGW-20 FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-20 ATC-25 ATC-30 ATC-40	1 1 5 USES 15 5 5 5	CB212-10 CB212-15 CB212-20 CB212-25 CB212-30 CB221-30 CB221-30 CB222-10 CB222-15 CB223-10 CB223-20	1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-15 CB1921-20 CB1921-20 CBC-10HB CBC-10HB CBC-15HB CBC-20HB CBC-30HB) 1) 1) 1) 1 1 1 1 1
AGW-15 AGW-20 FL ATC-1 ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-20 ATC-25 ATC-30 ATC-40	1 1 5 USES 15 5 15 5 15 5 5	CB212-10 CB212-15 CB212-25 CB212-20 CB221-20 CB221-30 CB221-20 CB222-10 CB222-10 CB222-15 CB223-10 CB223-20 CB223-20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-11 CB1921-15 CB1921-25 CBC-10HB CBC-10HB CBC-10HB CBC-20HB CBC-20HB CBC-20HB CBC-40HB 6 OBK	5 1 1 1 1 1 1 1 1 1 1 1 5 5ES
AGW-15 AGW-20 PL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-20 ATC-25 ATC-20 ATC-30 ATC-40	1 1 5 5 15 5 15 5 5 7 5 7 5 7 5	CB212-10 CB212-15 CB212-20 CB212-25 CB212-20 CB221-20 CB221-30 CB222-10 CB222-15 CB222-10 CB222-15 CB223-20 N FU ATC-3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-12 CB1921-22 CBC-10HB CBC-10HB CBC-20HB CBC-20HB CBC-20HB CBC-40HB 6 OBK FU: ATC-15	5 1 1 1 1 1 1 1 1 1 5 1 1 1 1 1
AGW-15 AGW-20 PL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½2 ATC-7½2	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-10 ATC-15 ATC-20 ATC-25 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 SFE-4	1 1 1 5 USES 15 5 15 5 5 5 5 5 5 7 5 7 5 15 5 15 5	CB212-10 CB212-15 CB212-25 CB212-20 CB212-20 CB221-20 CB221-30 CB222-10 CB222-10 CB222-10 CB222-10 CB223-20 N ACC-3 ATC-4 ATC-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-11 CB1921-15 CB1921-25 CBC-10HB CBC-10HB CBC-10HB CBC-20HB CBC-20HB CBC-20HB CBC-40HB 6 OBK	5 1 1 1 1 1 1 1 1 1 1 1 5 5ES
AGW-15 AGW-20 PL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-20 ATC-25 ATC-20 ATC-30 ATC-40	1 1 1 5 USES 15 5 15 5 5 5 5 5 5 5 15 5 15 5 15 5	CB212-10 CB212-15 CB212-25 CB212-20 CB212-20 CB221-20 CB221-30 CB222-10 CB222-10 CB222-10 CB222-10 CB223-10 CB223-20 RE23-10 CB223-20 RE23-10 RE23-10 CB223-20 RE23-10 RE33-10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-12 CB1921-22 CBC-10HB CBC-20HB CBC-20HB CBC-20HB CBC-30HB CBC-40HB) 1) 1) 1) 1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 FL ATC-12 ATC-2 ATC-3 ATC-3 ATC-3 ATC-4 ATC-5 ATC-7½ ACC-10 AGC-10 AGC-10 AGC-10 AGC-20	1 1 1 1 1 1 1 1 1 1 1 1 2 2	SFE-20 SFE-30 OOBK ATC-10 ATC-10 ATC-10 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-40 IO I SFE-4 SFE-9 SFE-4 SFE-9 SFE-4 SFE-20	1 1 1 15 5 15 5 15 5 15 5 15 5 15 5 15	CB212-10 CB212-15 CB212-25 CB212-20 CB212-20 CB221-20 CB221-30 CB222-10 CB222-10 CB222-10 CB222-10 CB223-20 N ACC-3 ATC-4 ATC-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-11 CB1921-22 CB1921-22 CB1921-22 CBC-10HB CBC-30HB CBC-30HB CBC-30HB CBC-40HB 6 OBK FU: ATC-15 ATC-25) 1) 1) 1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-5 ATC-7½ ATC-5 ATC-7½ AGC-3 AGC-10 AGC-15	1 1 1 1 1 1 1 1 1 1 1 2	SFE-20 SFE-30 OOBK F ATC-10 ATC-15 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-40 IO I SFE-4 SFE-9 SFE-14	1 1 1 5 USES 15 5 15 5 5 5 5 5 5 5 15 5 15 5 15 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB222-10 CB222-15 CB222-15 CB223-10 CB223-20 N FU ATC-3 ATC-4 ATC-4 ATC-7 ¹ / ₂ ATC-7 ¹ / ₂	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-11 CB1921-21 CB1921-22 CBC-10HB CBC-20HB CBC-20HB CBC-20HB CBC-20HB CBC-40HB 6 OBK FU: ATC-15 ATC-25 ATC-30 ATC-40) 1) 1) 1) 1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½ ATC-7½ ATC-7½ AGC-3 AGC-10 AGC-15 AGC-25 AGC-20	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-10 ATC-10 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-40 IO I SFE-4 SFE-9 SFE-4 SFE-9 SFE-4 SFE-20	1 1 1 15 5 15 5 15 5 15 5 15 5 15 5 15	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB2221-30 CB2221-30 CB2221-30 CB222-15 CB223-10 CB23-10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-2(CB1921-2) CB1921-22 CB192-22) 1) 1) 1) 1) 1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½ ATC-7½ AGC-10 AGC-15 AGC-20 AGC-25 AGC-30	1 1 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-10 ATC-25 ATC-20 ATC-27 ATC-30 ATC-40 IOI SFE-4 SFE-4 SFE-9 SFE-4 SFE-20 SFE-30 SFE-30	1 1 1 15 5 15 5 15 5 15 5 15 5 15 5 15	CB212-10 CB212-15 CB212-25 CB212-25 CB221-30 CB221-30 CB2221-30 CB2221-30 CB222-15 CB222-10 CB222-10 CB222-10 CB223-10 CB223-10 CB223-20 N FU ATC-3 ATC-4 ATC-5 ATC-4 ATC-5 ATC-7 ATC-10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-30 CB1921-10 CB1921-21 CB1921-22 CB192-22 C) 1) 1) 1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½ ATC-7½ AGC-10 AGC-15 AGC-20 AGC-25 AGC-30	1 1 1 JSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-10 ATC-25 ATC-20 ATC-27 ATC-30 ATC-40 IOI SFE-4 SFE-4 SFE-9 SFE-4 SFE-20 SFE-30 SFE-30	1 1 1 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB222-10 CB222-15 CB223-10 CB222-15 CB223-10 CB223-10 CB223-20 N FU ATC-3 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-7 ATC-10 AC-1 AGC-1 AGC-2 AGC-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-21 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 ATC-30 ATC-40 ATC	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N ATC-1 ATC-2 ATC-3 ATC-3 ATC-4 ATC-5 ATC-7 //2 AGC-10 AGC-10 AGC-10 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20	1 1 1 ISES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-10 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-40 IOI SFE-4 SFE-9 SFE-14 SFE-9 SFE-14 SFE-20 SFE-30 S	1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB222-15 CB222-10 CB222-10 CB222-10 CB222-10 CB222-10 CB223-10 CB223-20 N FU ATC-3 ATC-4 ATC-5 ATC-7½ ATC-7½ ATC-10 ATC-1 AGC-1 AGC-2 AGC-3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 11 1 1 1	CB1911-3(CB1921-2) CB192-	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½ ATC-4 AGC-30 AGC-15 AGC-30 AGC-15 AGC-30 AGC-25 AGC-30 FL ATC-4 ATC-4 ATC-4 ATC-7½	1 1 1 ISES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-15 ATC-20 ATC-20 ATC-20 ATC-20 ATC-40 TO 1 IO 1 SFE-4 SFE-14 SFE-20 SFE-14 SFE-30	1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB222-10 CB222-15 CB223-10 CB222-15 CB223-10 CB223-10 CB223-20 N FU ATC-3 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-7 ATC-10 AC-1 AGC-1 AGC-2 AGC-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-21 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CB1921-22 ATC-30 ATC-40 ATC	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 Ν ΑΤC-1 ATC-2 ATC-3 ATC-3 ATC-4 ATC-5 ATC-7 /γ ₂ ΑGC-10 AGC-15 AGC-10 AGC-25 AGC-30 FL ATC-3 ATC-4	1 1 1 ISES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-10 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-40 IOI SFE-4 SFE-9 SFE-14 SFE-9 SFE-14 SFE-20 SFE-30 S	1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB2221-30 CB222-15 CB223-10 CB223-10 CB223-10 CB223-20 R FU ATC-3 ATC-4 ATC-5 ATC-7½ ATC-10 ATC-1 AGC-1 AGC-1 AGC-2 AGC-10 AGC-10 AGC-10 AGC-10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-20 CB1921-21 CB1921-22 CBC-10HB CBC-15HB CBC-15HB CBC-30HB CBC-40HB CBC-30HB CBC-40H	0 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-3 ATC-4 ATC-7½ ATC-3 ATC-4 ATC-7½ AGC-10 AGC-15 AGC-25 AGC-30 FL ATC-4 ATC-7½ ATC-10 ATC-10 ATC-15 ATC-10	1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK ATC-10 ATC-15 ATC-25 ATC-20 ATC-25 ATC-20 ATC-25 ATC-30 ATC-40 IO1 SFE-4 SFE-4 SFE-4 SFE-4 SFE-3 SFE-14 SFE-20 SFE-14 SFE-30 SFE-14 SFE-30 ATM-10 ATM-15 ATM-10 ATM-25	1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB2221-30 CB222-15 CB223-10 CB222-15 CB223-10 CB222-15 CB223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R223-10 R233-10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-2(CB1921-2) CB1-2(CB1921-2) CB1-2(CB192-2) CB1-2(CB19	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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AGW-15 AGW-20 AGW-20 N FL ATC-2 ATC-2 ATC-3 ATC-4 ATC-5 ATC-5 ATC-7/2 AGC-10 AGC-10 AGC-10 AGC-10 AGC-20 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-2 AGC-20 AGC-20 AGC-20 AGC-20 AGC-20 ATC-4 ATC-4 ATC-7/2 AGC-20 AGC-20 AGC-20 ATC-4 ATC-7/2 ATC-4 ATC-7/2 ATC-4 ATC-7/2 ATC-4 ATC-7/2 ATC-2 ATC-4 ATC-7/2 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30	1 1 1 1 1 1 1 1 1 1 2 2 3 1 1 2 2 3 1 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-15 ATC-25 ATC-20 ATC-25 ATC-20 ATC-25 ATC-30 ATC-25 ATC-30 ATC-25 ATC-30 ATC-25 ATC-30 SFE-4 SFE-4 SFE-4 SFE-9 SFE-14 SFE-20 SFE-30 Z228 F ATM-10 ATM-15 ATM-20 ATM-25 ATM-30 MAX-30 MAX-30	1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB221-30 CB221-30 CB221-30 CB222-15 CB222-15 CB222-15 CB222-10 CB222-10 CB222-10 CB222-10 CB223-20 REC-3 ATC-4 ATC-5 ATC-4 ATC-5 AGC-15 AGC-15 AGC-15 AGC-15 AGC-25 AGC-15 AGC-25 AGC-25 AGC-25 AGC-30 ATC-4 ATC-7 ATC-4 ATC-7 ATC-4 ATC-4 ATC-4 ATC-7 AT	1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-2(CB1921-2) CB192-	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 AGC-15 AGC-20 AGC-25 AGC-30 FL ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-7 ATC-10 ATC-7 ATC-10 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-25 ATC-26 ATC-26 ATC-26 ATC-26 ATC-36 ATC-36 ATC-36 ATC-36 ATC-46 ATC-37 ATC-46 ATC-47 ATC-15 ATC-7 ATC-16 ATC-37 ATC-47 ATC-16 ATC-37 ATC-47 ATC-7 ATC-16 ATC-37 ATC-47 ATC-7 ATC-16 ATC-37 ATC-47 ATC-16 ATC-37 ATC-47 ATC-17 ATC-17 ATC-17 ATC-27 ATC-17 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-27 ATC-37 ATC-47 ATC-37 ATC-47 ATC-27	1 1 1 1 1 1 1 1 1 1 1 2 2 3 1 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-10 ATC-25 ATC-20 ATC-26 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-30 ATC-30 ATC-30 ATC-30 ATC-30 SFE-4 SFE-4 SFE-4 SFE-3 SFE-4 SFE-3 SF SF SF SF SF SF SF SF SF SF SF SF SF	1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB212-25 CB221-30 CB2221-30 CB2221-30 CB2221-30 CB222-15 CB223-10 CB223-10 CB223-20 REC-3 ATC-4 ATC-5 ATC-7½ ATC-10 ATC-5 ATC-7½ ATC-10 ACC-11 AGC-2 AGC-30 ACC-30 ATC-3 ATC-4 ATC-5 ATC-3 ATC-4	1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-1C CB1921-12 CB1921-22 CB1921-22 CB1921-22 CB1921-22 CBC-30HB CBC-15HB CBC-20HB CBC-30HB CBC-40HB CBC-20HB CBC-20HB CBC-20HB CBC-20HB CBC-20HB CBC-20HB ATC-15 ATC-20 ATC-20 ATC-20 ATC-30 ATC-40 ATC-30 ATC-30 ATC-40 ATC-30 A	0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 N FL ATC-1 ATC-2 ATC-3 ATC-4 ATC-5 ATC-7½ ATC-3 ATC-4 ATC-5 ATC-7½ ATC-3 ATC-4 ATC-3 ATC-4 ATC-3 ATC-4 ATC-5 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-3 ATC-4 ATC-2 ATC-4 ATC-2 ATC-4 ATC-2 ATC-4 ATC-4 ATC-2 ATC-4 ATC-2 ATC-4 ATC-7 ATC-4 ATC-7 ATC-15 ATC-7 ATC-4 ATC-7 ATC-4 ATC-7 ATC-7 ATC-4 ATC-7 ATC-7 ATC-4 ATC-7 ATC-7 ATC-7 ATC-7 ATC-4 ATC-7 ATC-2 ATC-4 ATC-7 ATC-2 ATC-4 ATC-7 ATC-2 ATC-4 ATC-7 ATC-2 ATC-4 ATC-7 ATC-2 ATC-4 ATC-25 ATC-4 ATC-25 ATC-4 ATC-25 ATC-4 ATC-25 ATC-4 ATC-25 ATC-3	1 1 1 1 1 1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-10 ATC-25 ATC-20 ATC-26 ATC-20 ATC-20 ATC-20 ATC-20 ATC-30 ATC-30 ATC-30 ATC-30 ATC-30 ATC-30 SFE-4 SFE-4 SFE-4 SFE-3 SFE-4 SFE-3 SF SF SF SF SF SF SF SF SF SF SF SF SF	1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-30 CB221-30 CB221-30 CB222-15 CB222-10 CB222-10 CB222-10 CB222-10 CB222-10 CB222-10 CB223-10 CB223-20 CB22-20 C	1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-10 CB1921-2(CB1921-2) CB192-	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGW-15 AGW-20 R ATC-1 ATC-2 ATC-3 ATC-4 ATC-4 ATC-4 ATC-4 ATC-4 ATC-7½ AGC-10 AGC-10 AGC-10 AGC-15 AGC-20 AGC-25 AGC-30 FL ATC-4 ATC-4 ATC-4 ATC-7½ ATC-4 ATC-7½ ATC-4 ATC-7½ ATC-4 ATC-7½ ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-4 ATC-7½ ATC-4 ATC-4 ATC-4 ATC-7½ ATC-4 ATC-3 ATC-4 ATC-3 ATC-4 ATC-3 ATC-4 ATC-3 ATC-4 ATC-3	1 1 1 1 1 1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	SFE-20 SFE-30 OOBK F ATC-10 ATC-15 ATC-25 ATC-20 ATC-26 ATC-20 ATC-27 ATC-30 TC-30 ATC-40 IOI IOI SFE-4 SFE-4 SFE-9 SFE-30 SF SF SF SF SF SF SF SF SF SF SF SF SF	1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CB212-10 CB212-15 CB212-25 CB212-25 CB212-25 CB212-30 CB221-30 CB221-30 CB222-15 CB223-10 CB222-15 CB223-10 CB222-15 CB223-10 CB223-10 RE22-10 CB223-10 CB223-10 RE22-10 CB223-10 CB223-10 RE22-10 CB223-10 CB223-10 RE22-10 RE20-10 R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CB1911-3(CB1921-2(CB1921-2) CB1921-2(CB1921-2) CB1921-2(CB1921-2) CB1921-22 CB1921	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

SFE-14 SFE-20

Empty Box Assortment (with inventory strips)

is available. Order:

EMPTY-N0.201.

ATC-20 ATC-25

ATC-30 25

25

15 15

15

15

15 15 15

AGC-25 AGC-30

AGW-15 AGW-20

GBC-8

GBC-16

SFE-14 SFE-20 SFE-30

Bussmann[®]

FUSES

AGC-1 AGC-2 AGC-3 AGC-4 AGC-5 AGC-7¹/₂

AGC-10 AGC-15

AGC-20

31

A Buss Service Center Assortment is the perfect companion for every auto mechanic's tool chest. It's designed with the professional's needs in mind: hundreds of fuses in various types and ratings, plus handy accessories like fuseholders, a fuse puller and a fuse tester. Sturdy, lockable hinged box comes complete with an inventory label, to simplify selection and reordering.

HUHRA (2)

HHG (2)

FT-2

FP-A3

ATC-20 (10) ATC-20 (25) ATC-30 (15)

MAX-50 (2)

MAX-50 (2)

SCA - a 485-piece assortment, including glass and blade fuses, in-line fuseholders, flashers, fusible links, circuit breakers, fuse puller and fuse tester.

SCA-HD – a 417-piece heavy duty assortment, including glass and blade fuses, in-line fuseholders, flashers and circuit breakers.

CBC-208 CBC-208 FLM-122 (2)

14444 (2) 14444 (2)

ATC-15 (10) ATC-20 (40)

ATM-30 (15) MAX-20 (2)

MAX-30 (2)

MAX-40 (2)

FLF-50 (2) FLF-60 (2)

NO, 232 (I)

AGC-20 (15) AGC-26 (15)

ATC-7/h (10) ATC-10 (10)

ATM-10 (15)

ATM-15 (15)

UC8-15

(2)

UC8-10

(12)

AOC-30 (15)

SFE-14 (15)

ATC-10 (10) ATC-15 (15)

ATM-20 (15) ATM-25 (15)

UCB-25

ar

UCB-30

(2)

No. 552 (2)

AGC-5 (15)

A0C-10 (15)

SFE-20 (25)

ATC-30 (10) ATM-3 (15)

UC9-6

1,23

CBB-39

AGC-15 (15) AGC-20 (10)

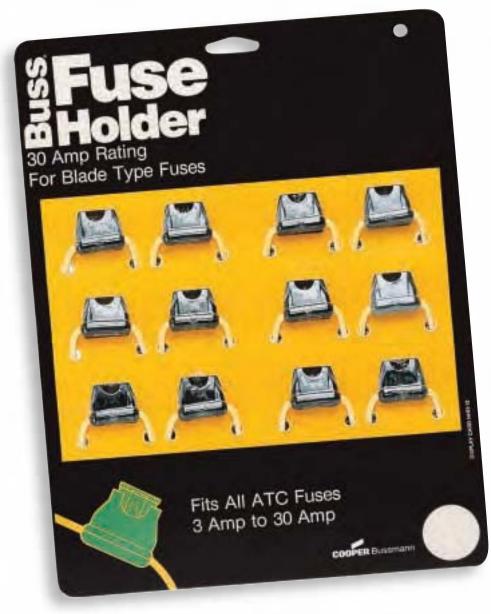
ATC-3 (10)

ATC-5 (10)

ATM-5 (15) ATM-71/2 (15)

UC8-10

th



HHD-12

DISPLAY CARD CONTENTS

The easy, hassle-free way to set up a fuse shop in any retail outlet – convenience stores, service stations, automotive supply.

Top-selling fuse assortments and accessories are merchandised on sturdy display cards – to turn any pegboard into extra fuse profits.

Bussmann[®] 33

SCA CONTENTS

Catalog No.	Qty.	Catalog No.	Qty.
AGC-5	15	FLF-30	2
AGC-10	15	FLF-60	2
AGC-15	15	FLM-120	2
AGC-20	25	FP-A3	1
AGC-25	15	FT-2	1
AGC-30	15	HHG	2
ATC-3	10	ННК	2
ATC-5	10	ННМ	2
ATC-71/2	10	HHN	2
ATC-10	25	MAX-20	2
ATC-15	25	MAX-30	2
ATC-20	50	MAX-40	2
ATC-25	25	MAX-50	2
ATC-30	25	MAX-60	2
ATM-3	15	N0.232	2
ATM-5	15	N0.552	2
ATM-71/2	15	SFE-14	15
ATM-10	15	SFE-20	25
ATM-15	15	UCB-6	2
ATM-20	15	UCB-10	2
ATM-25	15	UCB-15	2
ATM-30	15	UCB-20	2
CBB-30	1	UCB-25	2
CBC-20B	1	UCB-30	2
CBC-30B	1		
SCA-HD	CONT	FNTS	

SCA-HD	CONT	ENTS	
Catalog No.	Qty.	Catalog No.	Qty.
CBC-10B	2	ATC-25	25
CBC-15B	2	ATC-30	25
CBC-20B	2	AGU-15	10
AGA-15	15	HHG	3
AGA-20	15	HHN	3
AGA-30	15	HRK	2
AGC-1	15	MAX-20	2
AGC-11/2	15	MAX-30	2
AGC-4	15	MAX-40	2
AGC-10	15	MAX-50	2
AGC-15	15	MAX-60	2
AGC-20	25	N0.232	2
AGC-25	15	N0.233	2
AGC-30	15	NO.550	2
AGC-35	15	N0.552	4
AGX-30	15	UCB-10	2
ATC-5	10	UCB-15	2
ATC-10	25	UCB-20	2
ATC-15	25	UCB-30	2
ATC-20	30		

DISPLAY CARD CONTENTS

Cat No.	Card Includes
HHD-12	12 Type HHD Holders (Fuses not included)
N0.12	6 HRJ Holders with SFE-20 fuses
	4 HRI Holders with SFE-14 fuses
	2 HRH Holders with SFE-9 fuses
NO.14	12 Type HMJ Holders (Fuses not included)
NO.16	12 Type HRK Holders (Fuses not included)
NO.18	12 Type HMK Holders (Fuses not included)
N0.26	12 Type HHC Holders (Fuses not included)

34 Specialty Products for Heavy Duty Application

No matter what the job, Bussmann has a product to make it easier to handle. We offer the industry's broadest range of circuit protection devices and accessories, including the components you need for those unusual applications – trucks, RVs, buses and older model cars.



BP/MEM-3 Automotive computer memory unit prevents memory loss on digital clocks, radios, telephones and trip computers when battery is disconnected. Attach to 12V battery.

BP/MEM-2 Antizap[®] auto computer surge protector. Protect vehicle's electronics from transient voltage spikes or surges with this on-board surge protector. As voltage spikes pass through the unit, they are "clipped" immediately to a level that is safe for the vehicle's electronics, thereby preventing any possible damage. It fits all 12V cars, boats, trucks and RVs.



BP/C5237 Designed for trucks, RVs and wiring accessories — Bussmann stud type junction blocks, **BP/C5237-3BC**, **BP/C5237-6BC** and **BP/C5237-8BC** are available in 3, 6 and 8 terminal configurations. Rated for applications to 30A, 600V.

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BP/SP-1 Surge protector jumper cable upgrade kit for automotive and marine applications. Can be used for cables up to 3 gauge.

BP/MEM-1 Prevents memory loss on clocks, radios, phones and computers when battery is disconnected. Attach to 9V battery (not included), and insert into lighter socket.



BP/BMS-1 Top post anti-theft battery master switch kit. Complete with HHM fuseholder and ATM-20 fuse, ring terminals and stainless steel bolt and wing nut. **BP/BMS-2** Side post for GM vehicles. Complete with HHM fuseholder and ATM-20 fuse and ring terminals.



JB3816-2 Non-feed through stud type junction block #3/8-16 thread/stud size, 250 amps max.

C1938 Feed-through stud type junction block #3/8-16 thread/stud size, 250 amps max.



HIGH-AMP CIRCUIT BREAKERS

These high-amp, Type III circuit breakers are typically used in auxiliary and accessory circuits for trucks, buses, RVs and marine applications. High-amp circuit breakers also have applications in battery charger systems and DC audio systems. Offered in flush mount or panel mount (see chart for amps available). CB181 is Type I and same size except without reset lever.



CB181F



CB185P



HIGH-AMP BREAKERS

CB181F	Type I flush mount breaker with sems nut installed. Amps available – 60, 70, 80 90, 100, 110, 120, 135 & 150
CB181P	Type I panel mount breaker with sems nut installed. Amps available – 60, 70, 80, 90, 100, 110, 135 & 150
CB184F	Type III manual resettable flush mount breaker with sems nut installed. Amps available – 60, 70, 80, 90, 100, 110, 120, 135 & 150
CB184P	Type III manual resettable panel mount breaker with sems nut installed. Amps available – 60, 70, 80, 90, 100, 110, 120, 135 & 150
CB185	Type III switchable manual reset breaker flush mount with sems nut installed. Amps available – 50, 60, 70, 80, 90, 100, 110, 120, 135 & 150
CB185P	Type III switchable manual reset breaker panel mount with sems nut installed. Amps available – 25, 40, 50, 60, 70, 80, 90, 100, 110, 120, 135 & 150

Add BP/ before part number when ordering carded product. Current price sheet lists all BP/ parts that are available.





BATTERY DISCONNECT SWITCH

15968-1 Heavy-duty switch is designed to open the circuit between the battery and the electrical load of a battery powered system typically in large truck applications. The switch is rated at 50 VAC or VDC max, 400A continuous. It can withstand cranking or surge currents up to 2000A for a maximum of 5 seconds.

Wiring harness circuit protection products are usually found under the hood, in a fuse panel or supplementary panel near the battery. Tap into an existing circuit to power a cellular phone, stereo components, etc. with the new Buss Tapper accessories. **BP/ATC-TAP** fits over the leg of any ATC blade fuse. **BP/ATM-TAP** fits ATM fuse applications. Crimp-on connector attaches easily to the power lead for electronic gear. Tappers sold in 5-count blister card packages. The **BP/ATC-TAPX2** contains two tappers per blister card.

BP/ATC-TAP

BP/ATM-TAP



BP/HHA converts an ATC fuse circuit into two fusible circuits. It plugs into the fuseblock, and accepts two fuses to provide protection for the existing circuit and the add-on circuit (10 amp maximum).





BP/HHH – converts ATM fuse circuit into two fusible circuits. Works like the HHA (10 amp maximum circuit).

UNIVERSAL FUSIBLE LINK KITS

Kit includes 9" length fusible link wire with printed label attached indicating wire gauge numbers, two different ring terminals and crimp connector.

BP/FL-14 contains 14 gauge fusible link wire, one each 3/8" and 5/16" ring terminals and crimp connector.

BP/FL-16 contains 16 gauge fusible link wire, one each 1/4" and 5/16" ring terminals and crimp connector.

BP/FLW-14 contains six foot coil of 14 gauge fusible link wire.

The highly-specialized **BP/HL** fusible link is used exclusively for wiring harness protection in Honda Civics.

BP/FLW-1

Marine Fuses



NO.M200

Most popular marine fuses both fast acting and time delay. Comes complete with inventory/reorder feature. 40 tins 200 fuses

Rack comes free!

MC-117 ARE 5 MOCT 12 MSI 7 MC 137 ARE 5 MOCT 12 MSI 7 MC 13 ARE 10 ARE 10 ARE 10 MC 13 ARE 10 ARE 10 ARE 10 MSI 10 ARE 10 ARE 10 MSI 10 ARE 10 ARE 10 MSI 10

NO. 108BK

Circuit protection emergency repair kit.

Provides for replacement of fuses and circuit breakers for almost any marine electrical circuit. Sturdy compact reclosable box. A must for commercial marine applications or boating enthusiasts.



MARINE SIDEKICK DISPLAY

Sturdy, self-standing display merchandises a full range fuse center for boating enthusiasts.

Display includes marine fuse kits, fuse pullers, fuseholders—plus fuse protection for electronic instruments, radar and marine sanitary devices.

Display is provided with clips attaching easily to gondola end-cap, slatwall or pegboard.



твзоо-в

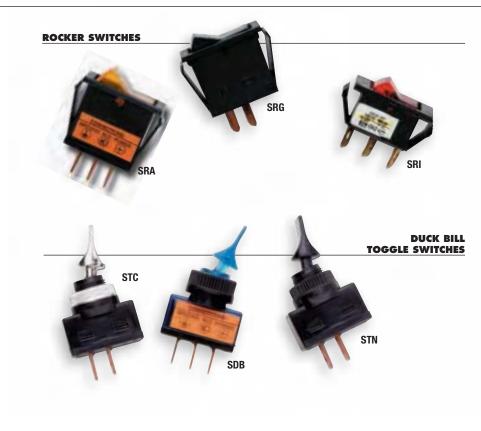
TB200-B Marine double row terminal block with nickel-plated brass screws, 20A, 300V. TB300-B same as TB200-B, 30A, 600V.

Bussmann[®] 37

MARINE	FUSE KITS	5 & ACCESSC	RIES				
BPA-5	Bilge pump and accessory kit. AGC-5, 10,						
	15, 20, & 30						
BP/MDA-8	Replacement fuse for marine TDX						
	system						
BP/MDL	1/2 to 30 – Time-delay fuses for marine motor protection. Two time-delay fuses						
		tion. Two time-de	lay tuses				
	per card						
MA-5		Marine kit, containing five AGC glass fuses, 1/2, 1, 11/2, 2, & 3					
			f				
MK-6	Marine kit, containing six glass fuses;						
SFE-9, 14, 20; AGC-10, 15, & 30							
	NO.1	08BK					
Catalog No.	Qty.	Catalog No.	Qty.				
ABC-10	5	AGC-20	15				
AGC-11/2	5	AGC-25	10				
AGC-3	10	AGC-30	15				
AGC-71/2	10	CBF-30	3				
AGC-10	15	GMA-2A	5				
AGC-15	10	MDA-8	5				
	NO.N	1200					
Catalog No.	Qty.	Catalog No.	Qty.				
ABC-15		AGC-25	10				
AGA-20	5	AGC-30	10				
AGC-1/4	5	ATC-10	5				
AGC-1/2	5	ATC-15	5				
AGC-3/4	5	ATC-20	5				
AGC-1	10	ATC-25	5				
AGC-11/2	5	ATC-30	5				
AGC-2	10	GMA-1	5				
AGC-21/2	5	GMA-2	5				
AGC-3 AGC-4	5 5	GMA-3 MDA-8	5 5				
AGC-5	5	SFE-7½	5				
AGC-71/2	5	SFE-9	5				
AGC-10	10	SFE-14	10				
AGC-15	10	SFE-20	10				
AGC-20	10						
	SK/M	AR97					
Catalog No.	Qty.	Catalog No.	Qty.				
MA-5	5	BP/HFB	5				
BPA-5	5	BP/HHG	5				
BP/MDA-8	5	BP/HKP-HH	5				
AT-7	5	BP/HMK	5				
CB-5	5	MK-6	10				
BP/ABC-15	5						
TERMINA	L BLOCKS	5					
TB200-B	204 3001/- #	12 – 22 AWG CU,	#6_32				
IB200-B		l plated brass scre					
		4, 6, 8, 10, & 15	110 poice				
BP/TB200-B		ed poles available -	-468				
51715200 5	& 10		1, 0, 0				
TB300-B		10 – 22 AWG CU,	#8-32				
		el plated brass scre					
		ole — 4, 6, 8, 10,					
	MUL	PERS					
0.12/1	1						
OJ3/J		barrier, 20A, 300V					
OJ6/J	1	barrier, 30A, 600V					
0J7/J	Closed over	barrier, 20A, 300V					
0J11/J	Slip-on over	barrier, 30A, 600V					

Buss offers a complete line of switches and indicating lights, both for replacement applications and special aftermarket installations. The Buss switch line includes toggle switches, rocker switches, and duck bill toggle switches — all in a variety of styles, colors and finishes. A complete line of modular mounting panels is available, too — to give the job a finished, professional look.





MOUNTING PANELS



MPR-2

WE

Bussmann[®] 39

TOGGL	E SWITCHES
BP/STA	ON-OFF Amber Illuminated Lever, 20A, 12V
BP/STR	ON-OFF Red Illuminated Lever, 20A, 12V
BP/STB	ON-OFF Blue Illuminated Lever, 20A, 12V
BP/STG	ON-OFF Green Illuminated Lever, 20A, 12V
BP/STF	ON-OFF-ON 20A, 12V
BP/STO	ON-OFF 20A, 12V
BP/STT	ON-OFF Chrome Lever Red LED, 20A, 12V
BP/SDN	ON-OFF 20A, 12V
BP/SDC	ON-OFF Chrome Lever, 20A, 12V
ROCKE	R SWITCHES
BP/SRR	ON-OFF Red Illuminated Lever, 16A, 12V
BP/SRB	ON-OFF Blue Illuminated Lever, 16A, 12V
BP/SRA	ON-OFF Amber Illuminated Lever, 16A, 12V
BP/SRG	ON-OFF Green Illuminated Lever, 16A, 12V
BP/SRI	ON-OFF Red Indicator Lever, 16A, 12V
BP/SRN	ON-OFF 16A, 12V
DUCK I	BILL TOGGLE SWITCHES
BP/SDA	ON-OFF Amber Illuminated Lever, 20A, 12V
BP/SDB	ON-OFF Blue Illuminated Lever, 20A, 12V
BP/SDG	ON-OFF Green Illuminated Lever, 20A, 12V
BP/SDR	ON-OFF Red Illuminated Lever, 20A, 12V
BP/STC	ON-OFF Chrome Lever, 20A, 12V
BP/STN	ON-OFF 20A, 12V
MOME	NTARY TOGGLE SWITCHES
BP/STP	FLASH-OFF, 20A, 12V
METAL	HOUSING
TOGGL	E SWITCHES
BP/STK	ON-OFF-ON Screw Terminals, 15A, 12V
BP/STE	ON-OFF Screw Terminals, 15A, 12V
BP/STJ	ON-OFF Screw Terminals, 25A, 12V
BP/STS	ON-OFF 25A, 12V
	011-011-23A, 12V
MODU	LAR PANELS
BP/PS	LAR PANELS Rectangular Slot with Clips for more Panels
BP/PS	LAR PANELS
BP/PS	LAR PANELS Rectangular Slot with Clips for more Panels TING PANELS FOR R SWITCHES
BP/PS MOUN ROCKE	LAR PANELS Rectangular Slot with Clips for more Panels TING PANELS FOR
BP/PS MOUN ROCKE BP/MPR-1 BP/MPR-2 MOUN	LAR PANELS Rectangular Slot with Clips for more Panels TING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch
BP/PS MOUN ROCKE BP/MPR-1 BP/MPR-2 MOUN	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR
BP/PS MOUNT ROCKE BP/MPR-1 BP/MPR-2 MOUNT TOGGL	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR E SWITCHES
BP/PS MOUNT ROCKE BP/MPR-1 BP/MPR-2 MOUNT TOGGL BP/MPT-1 BP/MPT-2	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR E SWITCHES
BP/PS MOUNT ROCKE BP/MPR-1 BP/MPR-2 MOUNT TOGGL BP/MPT-1 BP/MPT-2	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR E SWITCHES 1/2" Round Hole for Mounting (1) Switch 1/2" Round Hole for Mounting (2) Switches
BP/PS MOUNT ROCKE BP/MPR-1 BP/MPR-2 MOUNT TOGGL BP/MPT-1 BP/MPT-2 INDICA	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR E SWITCHES 1/2" Round Hole for Mounting (1) Switch 1/2" Round Hole for Mounting (2) Switches TING LIGHTS
BP/PS MOUNT ROCKE BP/MPR-1 BP/MPR-2 MOUNT TOGGL BP/MPT-1 BP/MPT-2 INDICA BP/LA	LAR PANELS Rectangular Slot with Clips for more Panels FING PANELS FOR R SWITCHES Rectangular Hole for Mounting (1) Switch Rectangular Hole for Mounting (2) Switches FING PANELS FOR E SWITCHES 1/2" Round Hole for Mounting (1) Switch 1/2" Round Hole for Mounting (2) Switches TING LIGHTS Amber 1/4" QC Terminals, 12V

Red 1/4" QC Terminals, 12V

BP/LR

Overcurrent devices provide two main purposes in an electrical circuit:

- 1. To protect components, equipment and associated wiring from costly damage.
- 2. To isolate sub-systems from the main system once a current fault has occurred.

Fuses and circuit breakers are commonly selected as the preferred overcurrent devices.

FUSES

Fuses are current sensitive devices and selected to be the weakest link in the circuit. Circuit protection is provided when the fuse link melts and safely interrupts the overcurrent demand. The key criteria to judge the performance of a fuse is the time versus current characteristic curve. This curve can be used to match the fuse with the anticipated overcurrent load expected in the application.

THERMAL CIRCUIT BREAKERS

The basic components of a thermal circuit breaker are the composite alloy reed, two precious metal contacts and the interconnecting terminals. When an overcurrent occurs, heat is generated as the current flows through the reed causing the reed to deflect and snap open. This separates the contacts and safely interrupts the current flow. Two important parameters used to judge the performance of thermal circuit breakers are the time versus current characteristic curve, similar to the fuse, along with the speed at which the contacts snap open. The relative speed at which the contacts separate is a measure of the cycle life under electrical loading demands. Cooper Bussmann carefully designs its snap acting reed element to ensure long cycle performance for its products.

TYPES OF OVERCURRENT

Short Circuit: Short circuit is a current condition that greatly exceeds the rating of the device. It is caused when a malfunction or accident creates a break in the normal path allowing electricity to flow directly to ground. This shorter current path bypasses the resistance offered by the circuit components connected in the normal current path. In this situation, there is virtually no resistance to impede the current and the current will build to a level where the heat generated can cause insulation and/or equipment breakdown.

Overload: An overload is an overcurrent that is within the normal current path. Overloads occur when the current exceeds the value for which the equipment or associated wiring is rated. This typically occurs when too many devices are connected to the circuit or when a device connected to the circuit malfunctions. Sustained overloads may slowly cause overheating of the wiring and the components. The circuit protection device must open before these types of overloads cause damage.

SELECTING OVERCURRENT PROTECTION

During normal conditions, an overcurrent protection device must carry the current without nuisance openings. However, when an overload or short circuit occurs, the device must interrupt the overcurrent and withstand the voltage across the device after arcing. To properly select an overcurrent device, the following items must be carefully considered:

Voltage Rating: Represents the maximum system voltage present in the circuit in which the overcurrent device is installed. The system voltage should not exceed this value for proper operation of the device during an overcurrent event.

Current Rating: This is the amperage value marked on the circuit protection device. The circuit protection device is designed to handle this value under steady operating conditions and at ambient temperatures near 25°C. The current rating of the fuse should not exceed the rating of the device.

Characteristics of equipment to be protected/In-rush characteristics: During the operation of protected equipment, system current can significantly vary. This is particularly evident when motor or other inductive loads in the circuit cause large current surges during start-up or shutdown. A time-delay fuse should be used in applications where in-rush currents are possible.

TROUBLESHOOTING TECHNIQUE

Because fuses contain no moving parts, they do not generally fail due to wear-and-tear. When a fuse opens, it's important that you determine what caused the overcurrent situation in the first place. Otherwise, the replacement fuse is likely to open, too — and the circuit still will not function as intended.

Fuses are installed in one or more fuse blocks — which can be located in various locations in the vehicle, depending on its make and model. Typically, fuse panels can be found in the passenger compartment, below the steering wheel; in the engine compartment; or in some cases, in the trunk. See the vehicle owner's manual for the precise location of the fuse block(s).

On most vehicles, each clip in the fuse block will be labeled, to help you identify which circuit the fuse protects (wipers, radio, dome light, etc.). The fuse itself is labeled with an amperage rating, and (in the case of blade fuses) a color coding.

Important: Always replace an open fuse with a new fuse of the same amperage rating and fuse style/dimension. Otherwise, the fuse may not be able to perform its protective function in the circuit. If you are unsure what amperage rating is required for the circuit, check the vehicle owner's manual or the label on the fuse block.

Base 4 Page 4 Call No. Call No. <thcall no.<="" th=""> <thcall no.<="" th=""> Call No.</thcall></thcall>				IN	DEX BY PAR		ED			
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ATM 2 BPHA 36 CB124-HB 9 HHN 12 N0.243 17 BPACB 1 BPHMA 13 CB174 8 HHK 12 N0.244 17 BPACB 19 BPHMK 13 CB174 8 HHK-8 13 N0.246 17 BPACA 19 BPHA 33 CB181F 34 HHK-2 13 N0.246 17 BPACA 19 BPLB 39 CB181F 34 HHK-2 13 N0.271 30 BPACA 19 BPLB 39 CB184F 35 HHK-13 N0.50 28 BPACH 19 BPMAL 19 CB185 35 HML<13	-	3	BP/HKP	13	BPA-5	37	HHM-B	12	N0.235	26
ATM-AMPRID 27 PP-MAI 13 CB124 9 HHR 12 N0.244 17 BPAGA 19 BP-HBK 13 CB174B 8 HHK 12 N0.246 28 BPAGA 19 BP-HAK 13 CB174B 8 HHK 13 N0.271 30 BPAGA 19 BPAA 39 CB164F 35 HWC 13 N0.271 30 BPAGU 19 BPAG 39 CB164P 35 HWC 6 N0.550 16 BPAGW 19 BPAMAX 19 CB162P 35 HMU 13 N0.756 17 BPAGNA 19 BPAMA 37 CB212 10 HHK 13 N0.757 17 BPAGY 19 BPAMMA 34 CB222 11 HB 13 N0.758 17 BPAGY 19 BPAMEA3 34 CB223 10 HBK <t< td=""><td>ATC-(AMP)RLD</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>	ATC-(AMP)RLD				-					
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BPAGA-AL 19 BPABS-2 35 CB181F 34 HM-Cc 13 NO.271 30 BPAGA-AL 19 BP/A 39 CB181F 35 HMP 13 NO.271 30 BPAGC 19 BP/A 39 CB184F 35 HMP 13 NO.270 31 BPAGW 19 BP/A 39 CB184F 35 HMU 6 NO.550 16 BPAGW 19 BP/MAX 19 CB180P 35 HMU 13 NO.757 16 BPAGK 19 BP/MAX 19 CB192L 10 HMK 13 NO.757 17 BPAGC 19 BP/MM-2 34 CB222 11 HB1 13 NO.760 17 BPAGC 19 BP/MM-2 34 CB223 10 HMX 13 NO.761 17 BPAGC 19 BP/MM-1 39 CB1921 10 KB-7			BP/HMK			8	HHX			
BPARC 19 BP/LA 39 CB181P 35 HKP 13 ND.271HD 31 BP/AGU 19 BP/LB 39 CB184F 35 HMEG 6 ND.500 28 BP/AGW 19 BP/LR 38 CB185 35 HMU 13 ND.575 16 BP/AGW 19 BP/MAX 10 HMK 13 ND.755 17 BP/AGK 19 BP/MDL-3 34 CB222 11 HRI 13 ND.759 17 BP/ATC-TAPA 36 BP/MEH-1 34 CB222 10 HRX 13 ND.761 17 BP/ATC-TAPA 36 BP/MPT-1 39 CB191 10 HTB 13 ND.761 17 BP/ATC-TA	BP/AGA	19	BP/HRK	13	CB174B		HHX-B	13	N0.246	
BPARC 19 BP/LB 39 CB184F 35 HW2-HI 13 NO.500 28 BP/AGU 19 BP/LR 38 CB184F 35 HMD 6 N0.550 16 BP/AGW 19 BP/MDA 38 CB185 35 HMU 13 N0.575 16 BP/AGX 19 BP/MDA 37 CB211 10 HMK 13 N0.757 17 BP/AGX 19 BP/MDL 37 CB211 10 HMK 13 N0.759 17 BP/AGC 19 BP/MEM-1 34 CB222 10 HR4 13 N0.760 17 BP/ATC-TAP 36 BP/MPH-1 34 CB221 10 KF-5 21 N0.761 17 BP/ATM 19 BP/MPH-2 39 CB1911 10 KF-5 21 N0.762 17 BP/ATM 19 BP/MPH-2 39 CBC-4MP/B KK-5		19	BP/JB3816-2		CB181F	34		13	N0.271	
BPAQU 19 BP/LG 39 CB18/P 35 HMEG 6 N0.550 16 BP/AGW 19 BP/AAV 10 HMH 13 N0.756 17 BP/AAVG 6 BP/MEH-3 34 CB221 11 HHI 13 N0.769 17 BP/ATC-TAP 36 BP/MEH-3 34 CB222 10 HFK 13 N0.761 17 BP/ATC-TAP2 36 BP/MFH-1 39 CB-21 N0.762 17 BP/ATAT 19 BP/MFP-2 39 CB8 11 KF-5 21 N0.763 17 BP/ABT-1 39	BP/AGA-AL	19	BP/LA	39	CB181P	35	HKP	13	NO.271HD	31
BPRAGW 19 BP/RA 33 CB185 35 HMU 6 N0.552 16 BP/AGW-A 19 BP/MAX 19 CB185P 35 HMJ 13 N0.575 16 BP/AGX 19 BP/MDL 37 CB211 10 HMK 13 N0.756 17 BP/AMC 19 BP/MBL 34 CB221 10 HRK 13 N0.758 17 BP/ATC 19 BP/MBL-2 34 CB221 11 HR 13 N0.758 17 BP/ATC 19 BP/MEN-3 34 CB223 10 HBK 13 N0.760 17 BP/ATC 36 BP/MEN-1 39 CB191 10 HB 13 N0.761 17 BP/ATM 19 BP/MT-2 39 CB2 14 CBC-4MPJB 9 K4-5 21 N0.62 17 BP/ATM 19 BP/MT-1 39 CB2<	BP/AGC	19	BP/LB	39	CB184F	35	HKP-HH	13	NO.500	28
BP/RGWA 19 BP/RMAX 13 ND.575 16 BP/AGX 19 BP/MDA-8 37 CB211 10 HMK 13 ND.575 17 BP/AGX 19 BP/MDL 37 CB212 10 HRH 13 ND.757 17 BP/ARCA 19 BP/MEM-1 34 CB221 11 HRI 13 ND.758 17 BP/ARCA 19 BP/MEM-3 34 CB222 11 HRI 13 ND.759 17 BP/ARCA 36 BP/MEN-3 34 CB223 10 HRA 13 ND.760 17 BP/ARTA 36 BP/MEN-1 39 CB1921 10 K8-7 21 ND.762 17 BP/ARTA 19 BP/MEN-1 39 CB192 K6-7 21 ND.763 17 BP/BATAP 15 BP/MEN-2 39 CB1 K6-7 21 ND.363 17 BP/BMS-	BP/AGU	19	BP/LG	39	CB184P	35	HMEG	6	N0.550	16
BP/AGX 19 BP/MDA-8 37 CB211 10 HMK 13 N0.756 17 BP/AGX-A 19 BP/MDL 37 CB212 10 HRH 13 N0.757 17 BP/AMC 6 BP/MEM-1 34 CB221 11 HRI 13 N0.758 17 BP/ATC 19 BP/MEM-2 34 CB223 10 HRK 13 N0.760 17 BP/ATC-TAP 36 BP/MET-1 39 CB1911 10 HR 13 N0.761 17 BP/ATM-TAP 36 BP/MFT-1 39 CB1911 10 HR 13 N0.763 17 BP/ATM-TAP 36 BP/MFT-2 39 CB2 14 CB2(AMPB 9 KL-5 21 N0.860 17 BP/BMS-1 34 BP/Sc02 14 CB2(AMPB 9 KL-5 21 N0.860 17 BP/BMS-1 39 CB2 1	BP/AGW	19	BP/LR	38	CB185	35	HMID	6	N0.552	16
BP/AGX-A 19 BP/ADL 37 CB212 10 HPH 13 N0.757 17 BP/ADC 6 BP/MEM-1 34 CB221 11 HPI 13 N0.758 17 BP/ATC 19 BP/MEM-3 34 CB222 11 HRU 13 N0.759 17 BP/ATC-TAP 36 BP/MEM-3 34 CB223 10 HRK 13 N0.760 17 BP/ATC-TAP 36 BP/MPH-1 39 CB1911 10 HRK 13 N0.761 17 BP/ATM 19 BP/MPH-2 39 CB1921 10 KB-7 21 N0.762 17 BP/BAT-TAP 36 BP/MPH-2 39 CBC 9 KJ-7 21 N0.763 17 BP/BAT-TAP 34 BP/S-B301 14 CBC-AMPJB 9 KJ-7 21 N0.852 17 BP/CB174 8 BP/SDA 39 CBC-HB 9	BP/AGW-A	19	BP/MAX	19	CB185P	35	HMJ	13	N0.575	16
BP/AMG 6 BP/MEM-1 34 CB221 11 HR 13 N0.758 17 BP/ATC 19 BP/MEM-2 34 CB222 11 HRJ 13 N0.759 17 BP/ATC-TAP 36 BP/MEM-3 34 CB222 10 HRK 13 N0.760 17 BP/ATC 36 BP/MPH-1 39 CB1911 10 HTB 13 N0.761 17 BP/ATM 19 BP/MPF-2 39 CB8 11 KF-5 21 N0.762 17 BP/ATP 39 CB6 9 KF-5 21 N0.764 17 BP/BMS-2 34 BP/S-8202 14 CBC-4MP/B 9 KJ-5 21 N0.852 17 BP/CB174 8 BP/SD 39 CBC-9 KJA-6 21 OJG/J 37 BP/CB174 8 BP/SD 39 CBD-9 KJA-7 21 OJG/J 37	BP/AGX	19	BP/MDA-8	37	CB211	10	HMK	13	N0.756	17
BP/ATC 19 BP/MEM-2 34 CB222 11 HRJ 13 N0.759 17 BP/ATC-TAP 36 BP/MRH-1 39 CB1911 10 HRK 13 N0.760 17 BP/ATC-TAP/2 36 BP/MRH-1 39 CB1921 10 HRK 13 N0.761 17 BP/ATC-TAP/2 36 BP/MRH-2 39 CB1921 10 KB-7 21 N0.763 17 BP/BAT-TAP 36 BP/MT-2 39 CB2-5 21 KC5-5 21 N0.764 17 BP/BMS-1 34 BP/S 39 CBC 9 KJ-5 21 N0.850 17 BP/BMS-2 34 BP/SA202 14 CBC-4MPJB/P 9 KJ-5 21 N0.852 17 BP/CB174 8 BP/SDB 39 CBC-HB 9 KJA-7 21 0.07/J 37 BP/CB174 8 BP/SDB 39 CBP-B <td>BP/AGX-A</td> <td>19</td> <td>BP/MDL</td> <td>37</td> <td>CB212</td> <td>10</td> <td>HRH</td> <td>13</td> <td>N0.757</td> <td>17</td>	BP/AGX-A	19	BP/MDL	37	CB212	10	HRH	13	N0.757	17
BP/ATC-TAP 36 BP/MEN-3 34 CB223 10 HRK 13 N0.760 17 BP/ATC-TAPX2 36 BP/MTH-1 39 CB1911 10 HTB 13 N0.761 17 BP/ATM 19 BP/MTP-2 39 CB1921 10 KB-7 21 N0.762 17 BP/ATM-TAP 36 BP/MTP-1 39 CB-5 21 KG-5 21 N0.764 17 BP/BMS-1 34 BP/S-8202 14 CBC-(AMP)B 9 KJ-5 21 N0.852 17 BP/CB138 35 BP/S4202 14 CBC-(AMP)B 9 KJ-7 21 0.03/J 37 BP/CB174 8 BP/S0A 39 CBC-MP)B 9 KJA-7 21 0.07/J 37 BP/CB185 35 BP/S0B 39 CBF 8 KM-9 20 POG-25 25 BP/CB211 10 BP/SNB 39 CBF<	BP/AMG	6	BP/MEM-1	34	CB221	11	HRI	13	N0.758	17
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BP/ATM 19 BP/APR-2 39 CB1921 10 KB-7 21 N0.762 17 BP/ATM-TAP 36 BP/APT-1 39 CB5 21 KE-5 21 N0.763 17 BP/BAT-TAP 15 BP/MPT-12 39 CB8 11 KE-5 21 N0.764 17 BP/BMS-1 34 BP/PS 39 CBC 9 KG-7 21 N0.850 17 BP/CB33 35 BP/S-8202 14 CBC-4MPJB 9 KJ-7 21 0.03J 37 BP/CB33 35 BP/S0A 39 CBC-HB 9 KJA-6 21 0.04J 37 BP/CB174 8 BP/SDC 38 CBD-8 9 KM-7 21 0.07J 37 BP/CB174 8 BP/SDC 38 CBD-8 9 KM-7 21 0.07J 37 BP/CB211 10 BP/SDR 39 CBP-8 9	BP/ATC-TAP	36	BP/MEM-3	34	CB223	10	HRK	13	N0.760	17
BP/ATM-TAP 36 BP/MPT-1 39 CB-5 21 KE-5 21 N0.763 17 BP/BAT-TAP 15 BP/MPT-2 39 CBB 11 KG-5 21 N0.763 17 BP/BMS-2 34 BP/S-8302 14 CBC-(AMP)B 9 KJ-5 21 N0.852 17 BP/CB327 34 BP/S-8301 14 CBC-(AMP)BWP 9 KJ-6 21 OJS/J 37 BP/CB174 8 BP/SDB 39 CBC B KJ-7 21 OJS/J 37 BP/CB174 8 BP/SDB 39 CBF 8 KM-6 21 OJG/J 37 BP/CB185 35 BP/SDR 39 CBF 8 KM-9 20 P06-25 25 BP/CB181 10 BP/SDR 39 CBF-8 9 MAX 2 SCA 32 BP/CB21 10 BP/SFE 19 CBS 9	BP/ATC-TAPX2	36		39	CB1911	10	HTB	13	N0.761	17
BP/BAT-TAP 15 BP/MPT-2 39 CBB 11 KG-5 21 N0.764 17 BP/BMS-1 34 BP/PS 39 CBC 9 KG-7 21 N0.850 17 BP/CBMS-2 34 BP/S-8202 14 CBC-(AMP)B 9 KJ-7 21 0.03/J 37 BP/CB174 8 BP/SDA 39 CBC-HB 9 KJA-7 21 0.04/J 37 BP/CB174 8 BP/SDB 39 CBD 9 KJA-7 21 0.07/J 37 BP/CB174 8 BP/SDB 39 CBD-8 9 KM-8 21 0.01/J 37 BP/CB174 8 BP/SDC 38 CBD-8 9 KM-12 23 S202 14 BP/CB212 10 BP/SDR 39 CBF-8 9 MA-5 37 S-8301 14 BP/CB221 11 BP/SFE-AH 19 CBT-N 9	BP/ATM	19	BP/MPR-2	39	CB1921	10	KB-7	21	N0.762	
BP/BMS-1 34 BP/PS 39 CBC 9 KG-7 21 N0.850 17 BP/BMS-2 34 BP/S-8202 14 CBC-(AMP)B 9 KJ-5 21 N0.852 17 BP/C1538 35 BP/S-8301 14 CBC-(AMP)BWP 9 KJ-7 21 0.03/J 37 BP/CB174 8 BP/SDA 39 CBD 9 KJA-6 21 0.06/J 37 BP/CB174 8 BP/SDC 38 CBD-8 9 KM-7 21 0.011/J 37 BP/CB174 8 BP/SDG 39 CBF 8 KM-9 20 P06-25 25 BP/CB21 10 BP/SDR 39 CBF-8 9 MA-5 37 S-8301 14 BP/CB212 10 BP/SPR 39 CBF-8 9 MA-5 37 S-8301 14 BP/CB221 11 BP/SFE-AH 19 CBT-M 9<	BP/ATM-TAP	36	BP/MPT-1	39	CB-5	21	KE-5	21	N0.763	17
BP/BMS-2 34 BP/S-8202 14 CBC-(AMP)B 9 KJ-5 21 N0.852 17 BP/C1938 35 BP/S-8301 14 CBC-(AMP)BWP 9 KJ-7 21 0.33/J 37 BP/C527 34 BP/SDA 39 CBC-HB 9 KJA-6 21 0.05/J 37 BP/CB174 8 BP/SDB 39 CBD 9 KJA-7 21 0.07/J 37 BP/CB174B 8 BP/SDC 38 CBD-B 9 KM-6 21 0.01/J 37 BP/CB135 35 BP/SDR 39 CBF 8 KM-9 20 POG-25 25 BP/CB212 10 BP/SDR 39 CBP-BA 9 MA-5 37 S-8301 14 BP/CB221 11 BP/SFE-AH 19 CBT-M 9 MA-5 37 S-6202 14 BP/CB221 10 BP/SFE-AL 19 CBT-M	BP/BAT-TAP	15	BP/MPT-2	39	CBB	11	KG-5	21	N0.764	17
BP/C1938 35 BP/S-8301 14 CBC-(AMP)BWP 9 KJ-7 21 OJ3/J 37 BP/C5237 34 BP/SDA 39 CBC-HB 9 KJA-6 21 OJ6/J 37 BP/CB174 8 BP/SDC 38 CBD-B 9 KM-8 21 OJ1/J 37 BP/CB174B 8 BP/SDC 38 CBD-B 9 KM-8 21 OJ1/J 37 BP/CB185 35 BP/SDC 38 CBP-B 9 KM-8 21 OJ1/J 37 BP/CB211 10 BP/SDR 39 CBP-BA 9 MA-5 37 S-8301 14 BP/CB221 11 BP/SFE 19 CBS 9 MA-5 37 S-8301 14 BP/CB221 10 BP/SFE 19 CBS 9 MA-5 37 S-8402 14 BP/CB21 10 BP/SFE AL 19 CBT-N	BP/BMS-1	34	BP/PS	39	CBC	9			NO.850	
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BP/CB174 8 BP/SDB 39 CBD 9 KUA-7 21 0,1/,j 37 BP/CB174B 8 BP/SDC 38 CBD-B 9 KM-8 21 0,11/,j 37 BP/CB185 35 BP/SDC 39 CBF 8 KM-9 20 POG-25 25 BP/CB121 10 BP/SDR 39 CBP-BA 9 KM-12 23 S-8202 14 BP/CB212 10 BP/SFE 19 CBS 9 MAX 2 SCA 32 BP/CB221 11 BP/SFE-AL 19 CBT-M 9 MK-6 37 SFE 5 BP/CB1911 10 BP/SFE-AL 19 CBT-M 9 MK-6 21 SFF 40 27 BP/CB1921 10 BP/SFA 39 CBL-B 9 MK-6 21 SFF 6 BP/CB2 9 BP/SR 39 DA-1 21		35	BP/S-8301	14	CBC-(AMP)BWP	9	KJ-7	21	0J3/J	
BP/CB174B 8 BP/SDC 38 CBD-B 9 KM-8 21 0J11/J 37 BP/CB185 35 BP/SDG 39 CBF 8 KM-9 20 POG-25 25 BP/CB211 10 BP/SDN 38 CBP-B 9 KM-12 23 S-8202 14 BP/CB212 10 BP/SDR 39 CBP-BA 9 MA-5 37 S-8301 14 BP/CB221 11 BP/SFE 19 CBS 9 MAX 2 SCA 32 BP/CB222 11 BP/SFE-AL 19 CBT-N 9 MK-6 37 SFE 5 BP/CB11 10 BP/SFE-AL 19 CBT-N 9 MK-6 21 SFF (AMP)RLD 27 BP/CB2 10 BP/SFE-AL 19 CB1-B 9 MK-6 21 SFF (AMP)RLD 27 BP/CB2 9 BP/SRA 39 CCB 11	BP/C5237	34	BP/SDA	39	CBC-HB	9		21	OJ6/J	37
BP/CB185 35 BP/SDG 39 CBF 8 KM-9 20 P0G-25 25 BP/CB211 10 BP/SDR 38 CBP-B 9 KM-12 23 S-8202 14 BP/CB212 10 BP/SDR 39 CBP-BA 9 MA-5 37 S-8301 14 BP/CB2121 11 BP/SFE 19 CBS 9 MAX 2 SCA 32 BP/CB221 11 BP/SFE-AL 19 CBT-M 9 MIC 5 SCA-HD 32 BP/CB1911 10 BP/SFE-AL 19 CBT-N 9 MK-6 37 SFE 5 BP/CB2121 10 BP/SRA 39 CBU-B 9 MK-6 21 SFK-(AMP)RD 27 BP/CB24 10 BP/SRA 39 CBU-B 9 MK-6 21 SFK-(AMP)RD 37 BP/CBC-(AMP)B 9 BP/SRB 39 CBC-B 11 <td>BP/CB174</td> <td>8</td> <td>BP/SDB</td> <td></td> <td>CBD</td> <td>9</td> <td>KJA-7</td> <td>21</td> <td>0J7/J</td> <td>37</td>	BP/CB174	8	BP/SDB		CBD	9	KJA-7	21	0J7/J	37
BP/CB211 10 BP/SDN 38 CBP-B 9 KM-12 23 S-8202 14 BP/CB212 10 BP/SDR 39 CBP-BA 9 MA-5 37 S-8301 14 BP/CB212 11 BP/SFE 19 CBS 9 MAX 2 SCA 32 BP/CB222 11 BP/SFE-AL 19 CBT-M 9 MDL 5 SCA+D 32 BP/CB1911 10 BP/SFE-AL 19 CBT-N 9 MK-6 37 SFE 5 BP/CB1921 10 BP/SRA 39 CBU-B 9 MK-6 21 SFR 6 BP/CBC 9 BP/SRB 39 DIA-2 20 MMB 11 TB200-B 37 BP/CBC-(AMPJBW 9 BP/SRI 39 DIA-2 20 MMB 11 TB200-B 37 BP/CBC-(AMPJBWP 9 BP/SRI 39 DIA-2 20										
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