

NEW
4th Generation

APN

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ATTACHABLE® POWER NOSE

**400 Hz 115/200V AC Connector®
with Switches and Sensing Leads**

The 400 Hz Aircraft Power Connector for the next Millennium
Now with EcoNose®



**R91 with cable
protector
and LED's, switches**



By replacing the severe wear area in a ground power plug with a super tough high density (HD) reinforced polymer, the life of a cable assembly is significantly increased.

- Reduces wear on the plug nose and contacts
- Protects plug contacts from deformation
- HD polynose can be changed in 60 seconds on the ramp for quick return to service

ADVANTAGES

- The only truly modular EcoNose® socket on the market
- All components can be replaced quickly for an industry low life cycle cost.
- Fully sealed with O rings eliminating the need for potting.
- Super tough clam shell is shock proof, highly abrasion and chemically resistant to ramp environment.
- New Euro Power® Contacts with softer mating for easier plug in yet with lower voltage drop.
- Waterproof LED's and buttons are fully visible when engaging socket.
- Wide range of cables can be accommodated.
- High density polymer EcoNose® protects contacts and increases life of sockets, yet takes only 60 seconds to replace on ramp.



EcoNose®



EcoNose® Assembly

ANDERSON AIRMOTIVE PRODUCTS Co., Inc.

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® Eco-Nose is a registered trademark of Anderson Airmotive Products Co., Inc.

® Attachable is a registered trademark of Anderson Airmotive Products Co., Inc.

TECHNICAL DATA:

Nominal voltage: 115/200 V, 400 Hz
 Current carrying capacity: 350 A
 Current overload: 700 A/3 minute; 1500A / 1 minute
 Test voltage: 4kV
 Pilot contact switch: max. 30 VDC, 1 A, NO/NC
 Control button: 30 VDC, 1.5 A
 Operating temperature: -60°C to +120°C (-60°F to +248°F)
 Protection class: IP 68 for mounted connector
 Push and pull forces: acc. to DIN EN 61984 ≤ 445 N (100 lbs.)
 Weight: 2.9 kg (6.4 lbs.)
 Applicable norms: 2006/42/EC Machinery Directive, VG 95319, ISO 461, MIL-C-7974D, MS 25486, DFS 400, mates to Mil Spec MS90362 receptacle; R112 Portable Attachable® Receptacle

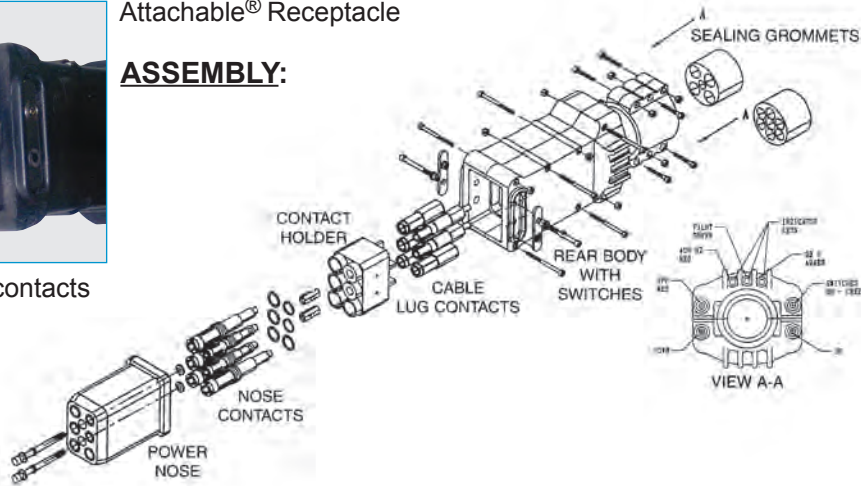


Up to 6 LEDs; 4 switches



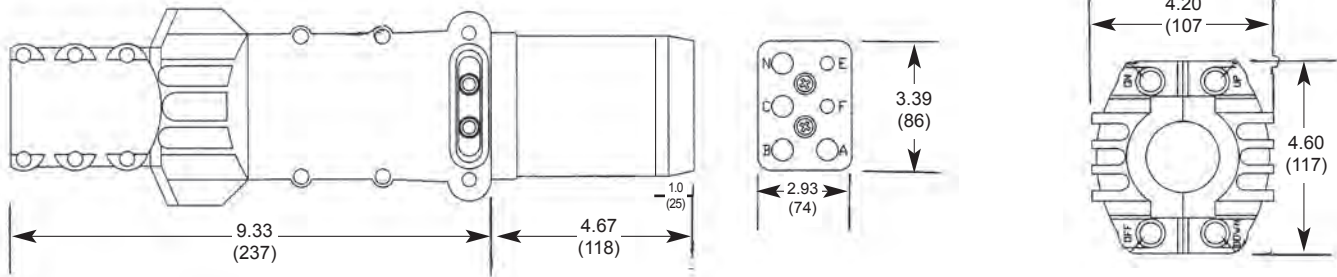
Easily replaceable contacts

ASSEMBLY:



Easy Assembly

DIMENSIONS:



OPTIONS:

- Three nose colors available - yellow, blue, green
- Pilot contact with switch or split control contact signals when connector is securely engaged, ensures voltage is applied only when proper mechanical connection is established.
- Up to 6 LEDs for 400 Hz power, 28 VDC control voltage and pilot contact.
- Four control buttons for 400 Hz supply and cable coiler directly at connector.
- Temperature sensors in main contacts prevent connector from overheating.
- DC 28V socket available with on/off, sensing.
- EcoNose® for extending service life of socket & cable assembly.

ORDER INFORMATION:

Attachable® Power Nose:

AC R91G xx(E)(F)(G)(Y)(Z)(W)(EN)(T)

Other models available for different cable sizes, configurations and options

Y1= on/off switches (E) Standard Contact
 Y2= on/off; up/down switches (F) Euro Contact
 xx Model Number (G) Single Piece Contact
 A= Amber LED (W) Sensing Option
 R= Red LED (EN) EcoNose
 G= Green LED (T) Temperature Sensing

EcoNose®

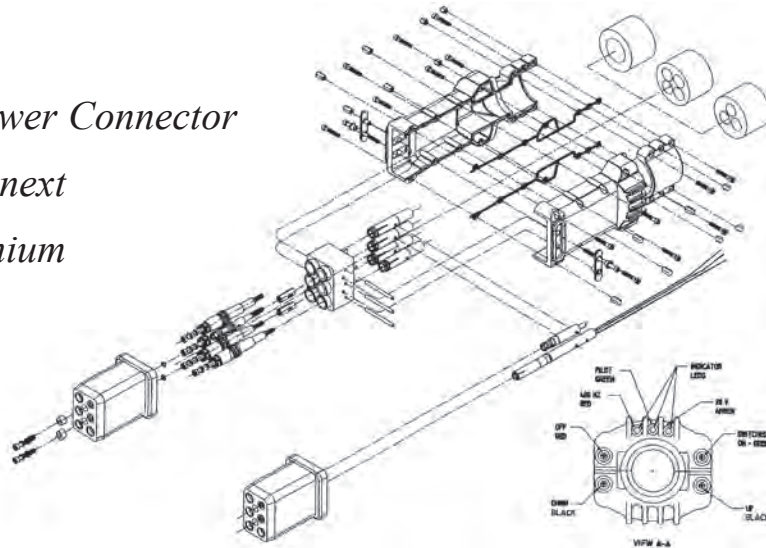
2-8309P7B - Replaceable Nose Plate

AC PLUG ATTACHABLE POWER NOSE® APN 6-POLE with switches & LEDs

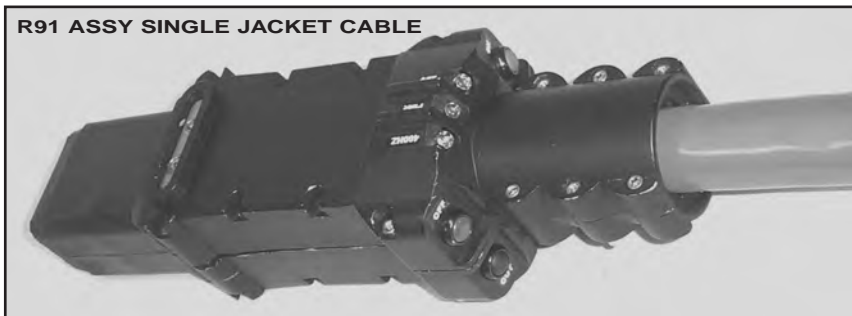


Super Tough Ionomer Plastic Clam Shell Design

*The Power Connector
for the next
Millennium*



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous



R91 ASSY SINGLE JACKET CABLE



R91 CLAMSHELL
3 CONDUCTOR

Quick, easy assembly of all components; Triple sealed against moisture intrusion

Modular Components can be replaced quickly at the ramp:

- High abrasion resistant special rubber nose
- Rugged service proven long life Grabber® Contacts
- On-off; in-out waterproof switches with Waterproof LED status indicators
- Waterproof sensing lead or microswitch available see page 32
- Super tough clam shell with stainless hardware

6-Pole 115/200V 400Hz Attachable® Power Nose (APN) R91

| Complete Plug No. | Replacement Nose only | Cable Accommodation | Replacement Contact Kits |
|-------------------|-----------------------|--|--------------------------------------|
| R91G5E | R91KIT 1 | 4-1/0 (50mm) MIL-C-5756C Single Conductors; #12/2 (2x3mm) Aux. | R91 Kit 2A Power |
| R91G36E | R91KIT 1 | 4-2/0 (70mm) MIL-C-5756C Single conductors; #12/2 (2x3mm) Aux. | R91 Kit 3A Auxiliary |
| R91G103E | R91KIT 1 | 6 #4 (20mm), 1-1/0 (50mm) Multiconductor; 6X1 Single Jacket | Crimp Lug Kits |
| R91G118E | R91KIT 1 | 4-70mm Single Conductors; #12/2 (2x3mm) Aux | R91 Kit 5A-1 50mm ² (1/0) |
| R91G146E | R91KIT 1 | 3-70mm Cables W Neutral | R91 Kit 5A-2 70mm ² (2/0) |
| R91G127E | R91KIT 1 | 3-50mm Cables W Neutral | R91 Kit 5A-3 20mm ² (#4) |