

02

TRAILER CONNECTORS

**CONNECTEURS
POUR REMORQUES**

**CONECTORES PARA
TRAILERS Y REMOLQUES**

- 10 Trailer Sockets
- 11 Nose Boxes & Socket Breakers
- 12 Trailer Plugs
- 16 Junction Boxes
- 16 Corrosion Preventive Sealant



**GROTE'S TRAILER CONNECTORS AND
COMMUNICATION PRODUCTS ENSURE
SUFFICIENT POWER IS DELIVERED
TO THE ENTIRE VEHICLES LIGHTING
AND SAFETY SYSTEM.**

HEAVY DUTY 7 POLE SOCKETS



82-1002

- Die-cast housing for superior corrosion resistance
- Solid brass pin terminals for best conductivity
- Meets and exceeds SAE J560 specifications
- Terminals accept 16-10 gauge wires; 8 gauge ground wire
- Sloped socket barrel allows for moisture drainage
- 40 AMP @ 6-28V DC
- 2, 1/2" mounting holes
- Circuit identification on the back of the socket
- Female ground pin for (ISO) to prevent improper connections



82-2145



82-1043

#	COLOR	CIRCUITS	RECOMMENDED WIRE GAUGE
1	White	Ground Return	8 GA
2	Black	Clearance, Side Marker and Identification Lamps	12 GA
3	Yellow	Left Turn Signal & Hazard Signal	12 GA
4	Red	Stop Lamps & Anti-Lock Devices	10 GA
5	Green	Right Turn Signal & Hazard Signal	12 GA
6	Brown	Tail, Rear Clearance, Marker and License Plate Lamps	12 GA
7	Blue	Auxiliary Circuit/ABS	10 GA

SOCKET #	MATERIAL	TERMINALS	PART #
7	Zinc Die-Cast	Enclosed, split pin	82-1002
7	Zinc Die-Cast	Exposed, solid pin	82-1005
7	Nylon	Enclosed, solid pin	82-2145
7	Nylon	ISO Socket	82-1043

7 POLE R.V. SOCKETS



82-1058

- Made of lightweight, high impact nylon
- Socket lid has a slot for proper drainage, tin plated copper alloy terminals
- 82-1060 fits Ford style and universal mount brackets
- Easy twist-in and lock assembly for factory installed brackets & hitches
- Fits GM and Nissan trucks and SUV's



82-1060



82-1059

NO.	COLOR	CIRCUIT	RECOMMENDED WIRE GAUGE
1	White	Ground Return	10 GA
2	Blue	Electric Brake	12 GA
3	Green	Tail, License, Running Lights	14 GA
4	Black	Battery Charge	10 GA
5	Red	Stop & Left Hand Turn Signal	14 GA
6	Brown	Stop & Right Hand Turn Signal	14 GA
7	Yellow	Auxiliary Circuit	14 GA

SOCKET #	MATERIAL	DESCRIPTION	PART #
7	Nylon	R.V. Socket Only	82-1058
7	Nylon	R.V. Socket Only	82-1060*
7	Nylon	R.V. Plug & Socket Kit (includes 82-1056 & 82-1058)	82-1050
7	Nylon	Twist-In & Lock Socket	82-1059*

* See page 12 for Harness Adapters

COMBINATION 7 WAY & 4 POLE SOCKETS

- Combines an R.V. 7 way and 4 pole flat socket connection into one part (not to be used simultaneously)
- Easy snap-in assembly designed for truck and sport utility vehicles and when hauling multiple trailers
- Eliminates the need for an adapter; mounting bracket included
- Will plug into any Ford or GM vehicle built after 2001 (selected Nissan models 2004+)

PLUG #	MATERIAL	DESCRIPTION	PART #
7	Nylon	7 Way R.V. and 4 Pole Flat w bracket	82-1055
7	Nylon	7 Way R.V. and 4 Pole Flat NEW	82-1055NB



82-1055NB



82-1055

PLUG AND SOCKET BOOT

PLUG / SOCKET #	DESCRIPTION	PART #
7	Plug Boot – complete protection	82-2142
7	Socket Boot – complete protection	82-2144

82-2142



82-2144

7- WAY SOCKET BREAKERS

- Heavy duty die-cast material; Meets SAE J560 specifications

PART #	RATED	DESCRIPTION
82-0854	15 AMP	Split Pin, Metal Breakers
82-0855	20 AMP	Split Pin, Metal Breakers
82-0856	30 AMP	Split Pin, Metal Breakers
82-0853		Split Pin, Without Breakers
82-0857	20 AMP	Split Pin, Nylon Breakers
82-0858	30 AMP	Split Pin, Nylon Breakers



82-0855

NOSEBOXES

- Fits standard mounting hole patterns
- Includes mounting hardware, grommet and gasket

PART #	DESCRIPTION	DIMENSIONS	MATERIAL
82-0861 NEW	Deep Nose Box	3 1/2"	Nylon
82-0859	Deep Nose Box	3 1/8"	Die-Cast
82-0860 NEW	Low Profile Nose Box	1 7/8"	Die-Cast
82-0850*	Low Profile Nose Box	1 7/8"	Die-Cast

* Includes 20A Split-Pin Socket Breaker



82-0860



82-0850



82-0861



82-0859

HEAVY DUTY 7 POLE PLUGS



- Die-cast housing for superior corrosion resistance
- Meets and exceeds SAE J560 specifications
- Plated steel cable guard prevents cable chafing
- Circuit identification on the back of the plug insert
- Male ground pin for (ISO) to prevent improper connection with standard 7 pole plugs

PLUG #	MATERIAL	DESCRIPTION	PART #
7	Zinc Die-Cast	Plug only	82-1001
7	Nylon	Plug only	82-2140
7	Zinc Die-Cast	Plug with guard	82-1019
7	Stainless Steel	Guard only	82-2141
7	Die-Cast	ISO Plug	82-1044

7 POLE R.V. PLUGS



- Made of lightweight, high impact nylon

PLUG #	MATERIAL	DESCRIPTION	PART #
7	Nylon	R.V. Plug Only	82-1056
7	Nylon	R.V. Plug & Socket Kit (includes 82-1056 & 82-1058)	82-1050

STEP-DOWN R.V. ADAPTERS



- Provides 6 & 7 pole trailer plug to allow 4, 5 and 6 pole conversion
- Made of lightweight, nylon material for superior corrosion resistance
- Ideal for boat trailers, campers and utility vehicles

PLUG#	MATERIAL	DESCRIPTION	PART #
7	Nylon	7 Way RV to 4 Pole Flat	82-2146
7	Nylon	7 Way RV to 5 Pole Flat	82-2148
7	Nylon	7 Way RV to 6 Pole Round, Ctr Pin, Brake	82-2149
7	Nylon	7 Way RV to 6 Pole Round, Ctr Pin, Auxiliary	82-2154
6	Nylon	6 Pole Round to 4 Pole Flat	82-2147

* See page 10 for Socket Connectors

ADAPTERS



* See page 10 for Socket Connectors

82-1063 | T CONNECTOR (FOR 5TH WHEEL & BUMPER MOUNT SOCKET)

- Plug & play without splicing into existing OEM harness
- Fits GM & Ford trucks/SUV's; Chrysler trucks/SUV's w/ 82-1062 adapter

82-1062 | RECTANGULAR-TO-ROUND HARNESS ADAPTER

- Adapter for OEM harnesses
- Mates w/ Grote socket # 82-1060, 82-1055, 82-1059, T-Connector #82-1063

82-1061 | HARNESS EXTENSION ADAPTER

- Adapter mates with socket # 82-1060, 82-1055
- 4' harness extension plugs into existing socket & splices into OEM harness

HEAVY DUTY 6 POLE SOCKETS

- Die-cast housing for superior corrosion resistance
- Solid brass pin terminals for best conductivity
- Terminals accepts up to 12 gauge wires
- 2, 1/2" mounting holes; Stainless steel spring
- Circuit identification on the back of the socket

SOCKET #	MATERIAL	TERMINALS	PART #
6	Zinc Die-Cast	Enclosed, split pin	82-1016

PLUG/SOCKET #	DESCRIPTION	PART #
6	Socket Boot – Complete protection	82-1012



NO.	COLOR	CIRCUITS
1	White	Ground Return
2	Brown	Tail Lights
3	Yellow	Left Turn
4	Red	Stop
5	Green	Right Turn
6	Blue	Auxiliary Circuit

HEAVY DUTY 6 POLE PLUGS

- Die-cast housing for superior corrosion resistance
- Plated steel cable guard prevents cable chafing
- Circuit identification on the back of the plug insert

PLUG #	MATERIAL	DESCRIPTION	PART #
6	Zinc Die-Cast	Plug only	82-1011
6	Zinc Die-Cast	Plug with guard	82-1010



HEAVY DUTY 4 POLE SOCKETS

SOCKET #	MATERIAL	TERMINALS	PART #
4	Zinc Die-Cast	Enclosed, split pin	82-1020

PLUG & SOCKET KIT	MATERIAL	TERMINALS	PART #
4	Zinc Die-Cast	Enclosed, split pin	82-1040

(includes 82-1020 & 82-1021)



NO.	COLOR	CIRCUITS
1	White	Ground Return
2	Green	Right Turns & Brake Lights
3	Yellow or Red	Left Turn & Brake Lights
4	Brown	Tail Lights

HEAVY DUTY 4 POLE PLUGS

PLUG #	MATERIAL	DESCRIPTION	PART #
4	Zinc Die-Cast	Plug with spring	82-1022
4	Zinc Die-Cast	Plug	82-1021
4	Stainless Steel	Spring	82-1023



MOLDED CONNECTOR ASSEMBLIES

- PVC sleeve provides ultimate protection; Split pin terminals
- 20 AMP @ 12-24V DC

DESCRIPTION	PART #
2 Pole Molded Connector Assembly	82-1027
4 Pole Molded Connector Assembly	82-1025



LIFT GATE – CHARGING PLUGS & SOCKETS



82-1041



82-0851



82-2144



82-1042



82-0852

- Designed for lift gate applications and as an alternative power source
- Solid brass pin terminals for best conductivity
- 2, 1/2" mounting holes; stainless steel spring
- Terminals accepts 4 gauge cable
- 200 AMP heavy die-cast construction

SOCKET

PART #	SOCKET #	DESCRIPTION	MATERIAL
82-1041	2	Socket – Dual Pole	Zinc Die-Cast
82-0851	1	Socket – Single Pole	Zinc Die-Cast
82-2144		Socket Boot	Rubber

PLUG

PART #	PLUG #	DESCRIPTION	MATERIAL
82-1042	2	Plug & Spring – Dual Pole	Zinc Die-Cast
82-0852	1	Plug & Spring – Single Pole	Zinc Die-Cast

PLUG & SOCKET COMBO

PART #	PLUG/SOCKET#	DESCRIPTION	MATERIAL
82-0950	1	Plug & Socket – Single Pole	Zinc Die-Cast

DUMP TRUCK & TARP TRAILER PLUGS & SOCKETS

VERTICAL PIN

NEW



82-1041V



82-1042V



82-2144

- Designed for dump truck, tarp and grain trailer applications; also alternative power source
- Solid brass pin terminals for best conductivity
- 2, 1/2" mounting holes; stainless steel spring
- Terminals accepts 4 gauge cable(s)
- 200 AMP heavy die-cast construction
- Vertical pin plug/socket = set screw termination

SOCKET

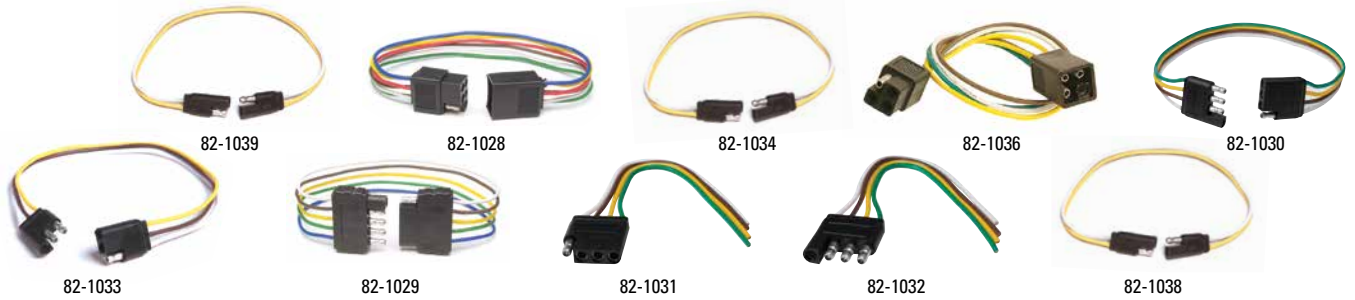
PART #	SOCKET #	DESCRIPTION	MATERIAL
82-1041V NEW	2	Socket – Dual Pole	Zinc Die-Cast
82-2144		Socket Boot	Rubber

PLUG

PART #	PLUG #	DESCRIPTION	MATERIAL
82-1042V NEW	2	Plug & Spring – Dual Pole	Zinc Die-Cast

MOLDED TRAILER CONNECTORS

- Automotive, marine, recreational and truck applications
- PVC wire
- Operating temperature 105°C (221°F)
- Weather resistant molded head
- Male = vehicle end, female = trailer end



PLUG #	GAUGE	CONNECTOR HEAD	LENGTH	WIRE COLORS	CONNECTOR END	PART #
6	16	Square	12"	White, Yellow, Brown, Green, Blue, Red	Male & Female	82-1028
5	16	Flat	12"	White, Yellow, Brown, Green, Blue	Male & Female	82-1029
4	18	Square	12"	White, Yellow, Brown, Green	Male & Female	82-1036
4	16	Flat	12"	White, Yellow, Brown, Green	Male & Female	82-1030
4	16	Flat	6"	White, Yellow, Brown, Green (blunt cut)	Female	82-1031
4	16	Flat	6"	White, Yellow, Brown, Green (blunt cut)	Male	82-1032
3	16	Flat	12"	White, Yellow, Brown	Male & Female	82-1033
2	16	Flat	12"	White, Yellow	Male & Female	82-1034
2	16	Flat	24"	White, Yellow	Male & Female	NEW 82-1038
2	12	Flat	12"	White, Black	Male & Female	NEW 82-1039
2	10	Flat	12"	White, Black	Male & Female	82-1035

MOUNTING BRACKETS

- Can accommodate from 4 pole up to 9 pole socket requirements
- Made of anti-corrosive steel, painted black

PLUG #	MATERIAL	DESCRIPTION	PART #
4, 5, 6	Steel	4, 5 and 6 pole socket bracket	43942
7, 9	Steel	7 and 9 pole socket bracket	43402
7	Steel	7 pole sockets	NEW 82-1052



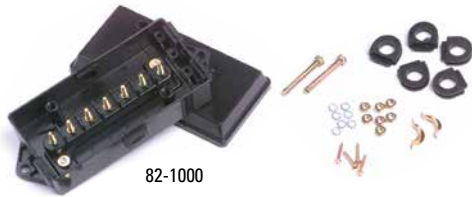
PROTECTIVE CAP – 7 POLE PLUGS

- Protective cap for 7 pole plugs
- Heavy duty glass-filled plastic housing
- Spring-loaded for secure locking
- Keeps plugs clean when not in use
- Protects the electrical contacts from dirt and moisture
- 2 mounting holes

PART #	MATERIAL	DESCRIPTION	PLUG #
82-1051	Plastic	Protective cap for 7 pole plugs	7



SEVEN TERMINAL JUNCTION BOX



82-1000

- Corrosion resistant molded cover and housing
- Two-bolt mounting 7 3/8" (18.73) centre to centre
- Access slot grommets included, four open-four closed
- 7, #10-32 studs

82-1000

DRI-SEAL CIRCUIT BOX



351044

- Entrances stay dry by using the new "push-in" choke seals and threaded fittings – comes with 4 choke seals
- 18 brass circuit studs and full hardware; entry from 4 sides
- All components are corrosion resistant
- Numbered label for fast circuit I.D.
- No tools: easy access by 4 wing nut fasteners (retained in the cover)
- Ample area for wire and cable – 1 cable entrance fitting

351044

7-WAY SYSTEM CHECKER



920273

- Solid brass pin
- LED light source
- Lexan housing

920273

CLEANING BRUSH – 7 POLE PLUGS & SOCKETS



83-6561

- Engineered to properly fit 7 pole plugs and sockets
- Removes any unwanted corrosion build up
- Easily stored in a tool box or maintenance kit
- Stainless steel bristles and heavy duty plastic housing

PART #	MATERIAL	DESCRIPTION	PLUG / SOCKET #
83-6561	Plastic	Plastic housing w/ steel bristles	7

ULTRA-SEAL CORROSION PREVENTIVE SEALANT DISPLAY



99170-1

99170

99180

- Prevents rust and corrosion
- Added tackifiers improve adhesion and resistance to washout
- Operating range -40°C (-40°F) to 150°C (302°F)
- Ideal for heavy-duty, automotive, agricultural, marine, industrial and recreational applications

PART #	DESCRIPTION
99170-1	Display (includes 12 - 4 oz. tubes # 99170)
99170	4 oz. Tube
99180	8 oz. Tub with applicator