



# **HOWE**

**PERFORMANCE POWER STEERING**

**2006**  
***Off-Road Racing Catalog***

[www.howepformance.com](http://www.howepformance.com)

[www.steeringbox.com](http://www.steeringbox.com)

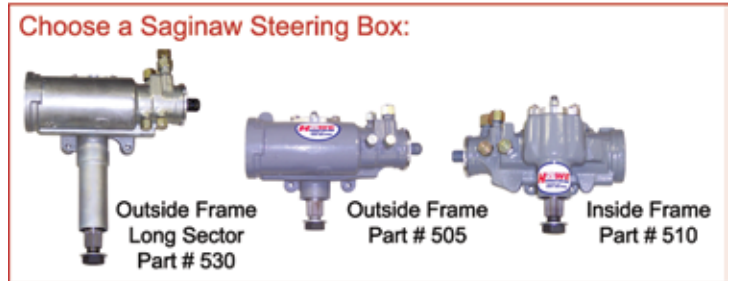
**Trophy Truck Systems**

**2.75" Power "Truggy" Rack and Pinion**



This power rack is designed for unlimited class racing. It's 2.75" ram with 6" throw make it a better choice than the Saginaw power steering Box. About 80% of Trophy Trucks today run the rack and pinion system.

**Power Steering Box with New 2.5" Ram Assist**



The same system would be used in Class 7 & 8.

**2.5" Power Rack With High Volume Pump**



More and more Class 1 and 10 cars are running the 2.5" Power Rack with High Volume pump and loving it! The high volume pump makes the steering drive good at 20mph or 120mph. Even with the new 1:1 ratio the high volume pump allows the hydraulics to keep up with the mechanics.

**Diablo System**

**Now Available with 2.5" Ram for Class 12 & 5**



This system is designed for VW beam style cars. The control valve is built into the rack which allows you to run with fewer steering shaft u-joints. Use the 2" ram in Class 1/2-1600 and use 2.5" ram (Part # 445) in Class 5 & 1200. **Now available in the new 1:1 ratio!**



**Ivan Stewart's Protruck™**

One of the fastest growing classes in desert racing!



Protruck driven by Rich Voss/Jason Voss



Part # 210



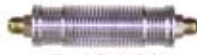
Part # 525



Part # 1010



Part # 408  
2" Dia. X 3.5" Travel



Part # 1104

We build our power steering system to make sure that the box, ram and spindle all stop at the same time to prevent damage to the "S" rod, cross link and sector shaft. This attention to detail sets Howe Performance apart from the competition.

**Old Style Ford**

With Twin I-Beam Rear Steer. With or without Ram Assist.



Frank "Scoop" Vessels



Part # 531



Part # 410  
2" Dia. x 4.5" Travel



Part # 210



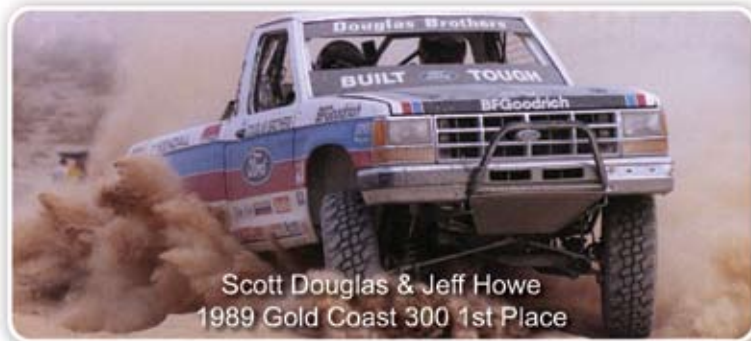
Part # 1104



Part # 1010

Designed for old style Fords with twin I-beam rear steer. The Ford Box is modified with precision bearings to help support the sector shaft and prevent seal failure.

**Ford Class 7-5**



Scott Douglas & Jeff Howe  
1989 Gold Coast 300 1st Place



Part # 520



Part # 410  
2" Dia. x 4.5" Travel



Part # 1010



Part # 210



Part # 1104

Scott Douglas uses this modified Ford power steering box with ram assist. The ram prevents sector shaft failures and provides better driveability.

**Ford Class 8-5**



Greg Foutz - Class 8-5 Champion



Part # 251



Part # 533



Part # 1010

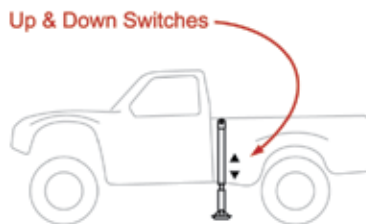


Part # 1104

The Ford Super Duty power steering box with larger sector shaft and modified stock Ford pump has taken Greg Foutz to many championships in the stone stock class.

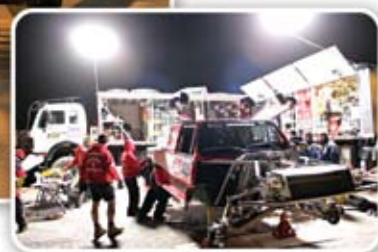
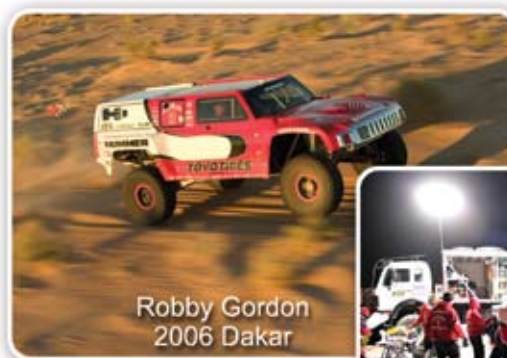
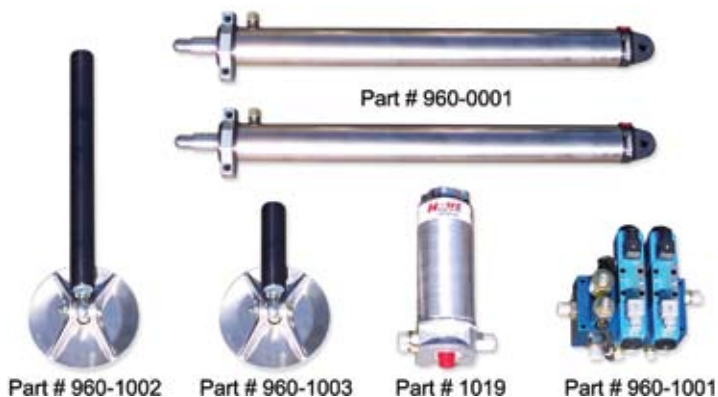


## NEW Hydraulic Jack



Typical Jack Location. Located where the jack will lift both wheels off the ground when extended.

New hydraulic jack system used by Robby Gordon in the '06 Dakar. The jack was not only used for changing flat tires and getting unstuck, but also for getting the car up on jack stands for servicing.



## DAKAR Systems

Howe Performance has been building power steering for Dakar competitors for over 15 years!



### High Volume System



### Standard System



2" Dia. x 6.5" Travel



2" Dia. x 4.5" Travel

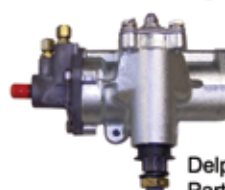


## Custom Racks

Custom Racks are built to your exact specifications.



### Choose a Steering Box:



**ProLite Racing**



Chad Hord - 05 CORR ProLite 2nd Place



More ProLites are now using the new 1:1 ratio power rack. It features 2.5" Ram with 4.5" throw which make it a better choice because of the quick ratio symmetrical design.



Jeff Kincaid - 05' CORR ProLite Champion



For racers using a steering box we offer this new 10:1 ratio box for ProLites. With the faster ratio box you no longer need to run a steering quickener. This system is used by Jeff Kincaid.

**Pro2 and Pro4 Racing**



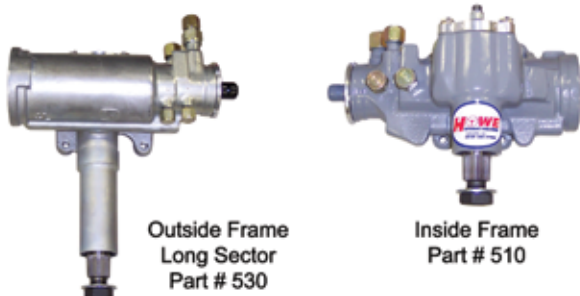
CORR Pro 2 Antigo, WI

**Power Rack and Pinion System**

The 2.75" ram with 6" throw is the same system used on Trophy Trucks and is the best choice for Pro2s and Pro4s. Most racers prefer the rack and pinion over the steering box.



**Choose a Saginaw Steering Box:**



Outside Frame  
Long Sector  
Part # 530

Inside Frame  
Part # 510

**Power Steering Box with Ram Assist and High Volume Pump**

Howe Performance offers the best ram assisted steering box systems around. We make sure the box, ram and spindle all stop at the same time to prevent damage to the cross link and sector shaft.

**Choose a Cooler:**



Part # 1104

Part # 415  
2" Dia. x 6.5" Max. Travel

Part # 1150

Part # 225

Part # 1110

Part # 1017



### Aluminum Steering Wheels



PART	ITEM
1130	Steering Wheel 13" or 15" Dished

### Power Steering Fluid

Specially formulated for off-road racing.



PART	ITEM
1105	Power Steering Fluid

### Quick Release

Best on the market! No Slop!



PART	ITEM
1120	Quick Release - 3 Bolt
1121	Quick Release - 6 Bolt (Momo Wheel)

### In-Line Coolers



PART	ITEM
1104	7" x 2" Dia. In-Line Cooler
1150	12" x 3" Dia. In-Line Cooler
1104-1001	Mounting Cushion
1104-1002	Billet Aluminum Mounting Bracket

### Pulleys (Visit our website for more info.)

PART	ITEM
305	T/C 4.5" Aluminum V-Belt Pulley
310	T/C 6.0" Aluminum V-Belt Pulley
315	T/C 5.375" Aluminum Serpentine Pulley
318	T/C 6.5" Aluminum Serpentine Pulley
316	T/C 4.5" Subaru Serpentine Pulley
317	GM P-Pump 5.375 Aluminum Serpentine Pulley
320	Type-1 VW Crank Pulley w/ Bolt & Pin
329	Hi-Volume Aluminum Single-V Pulley (Req. Steel Hub)
325	Hi-Volume Aluminum Double-V Belt Pulley (Req. Steel Hub)
326	Hi-Volume Aluminum 5.375" Serpentine Pulley (Req. Steel Hub)
328	Hi-Volume Aluminum 6.5" Serpentine Pulley (Req. Steel Hub)
330	T/C 6.0" Aluminum Stock Car Pulley
335	Hi-Volume Steel Hub (Required w/Hi-Volume Pulleys)
340	LS-1 Hi-Volume 6.5" Serpentine Pulley
345	LS-1 Hi-Volume Idler Wheel



### U-Joints (Visit our website for more info.)

Available in all 3/4, smooth x any spline



PART	ITEM
600	U-Joints 3/4" Splined X Smooth
600	U-Joints 3/4" Splined X Splined
655	U-Joints Charlynn X Smooth
650	U-Joint Charlynn X Splined

### Mounting Brackets



PART	ITEM
920A	Ford T/C Aluminum Pump Bracket
935	LS-1 High Volume Pump Bracket
905	Steel Type-1 VW T/C Pump Bracket
905A	Aluminum Type-1 VW T/C Pump Bracket
910	Steel Type-4 VW T/C Pump Bracket
915	Chevy 350 T/C Pump - Head Mount
925	Chevy 350 T/C Pump - Block Mount
930	LS1 T/C Pump Bracket
920	Ford T/C Pump Bracket
940	Honda V-TEC T/C Pump Bracket
1006	3.5" Dia. Reservoir Bracket

### Steering Shafts

PART	ITEM
1125	Steering Shaft 3/4" 48 Spline
1126	Steering Shaft 1.125" x 36"
1127	Steering Shaft Spuds 1" 48 Spline



www.howperformance.com  
www.steeringbox.com

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**All of our products are for off-road use only! Not Street Legal!**