



Series SE

**OIL DRAIN HOSE ASSEMBLIES
FOR SMALL EQUIPMENT**



***We Make Oil Changes
Fast, Clean, Safe, and Easy***

The SE Series Drain Hose Assembly Kits:

The SE Series engine oil pan drain hose assemblies were developed to meet the needs of smaller engine driven equipment such as forklifts, mowing machines, airport ground support equipment, pony engines and similar sized applications.

- The SE Hose consists of a 1/2" SAE 100 R1 hose of four (4) foot length (these can be furnished longer or shorter as needed) with a alloy steel banjo and stainless binding ferrule.
- A Banjo Kit (BBK) that includes an alloy steel banjo bolt of the specified oil pan thread, a matching spacer, two banjo seals and a oil pan gasket
- An upper hose connector nipple assembly with stainless steel ferrule and a reusable screw in nipple threaded for a coupling, such as an ISO type B as shown. Other couplings are available, such as a Mercedes type socket, a miniature ball valve or plain hex seal caps.
- Connector Mounting Brackets and Covers are optional accessories on this Series and must be ordered separately. CAP stocks all type of these accessories.

NOTE: CAP drain hose assemblies and accessories are intended only for oil pan drain purposes. Please consult CAP about any other intended uses.

SE Drain Hose Assemblies

METRIC Straight Thread Series

I.D. No.	Thread Type and Size	Thread Type
SE201M	M12 X 1.75	Metric
SE203M	M14 X 1.25	Metric
SE204M	M14 X 1.50	Metric
SE207M	M16 X 1.50	Metric
SE209M	M12 X 1.25	Metric
SE210M	M10 X 1.5	Metric
SE401M	M18 X 1.50	Metric
SE502M	M25 X 1.50	Metric
SE508M	M20 X 1.50	Metric
SE510M	M24 X 1.50	Metric
SE511M	M26 X 1.50	Metric
SE512M	M22 X 1.50	Metric
SE513M	M20 X 2.50	Metric

Inch Straight Thread Series

SE205N	9/16"-18	Inch
SE206N	5/8"-18	Inch
SE801N	3/4"-16	Inch
SE801AN	3/4"-16 with Aluminum Oilpan	Inch
SE802N	3/4"-24	Inch
SE501N	1"-18	Inch
SE503N	7/8"-18	Inch
SE509N	7/8"-14	Inch
SE514N	1 1/8"-12	Inch

Inch Tapered PIPE Thread Series

I.D. No.	Thread Type and Size	Thread Type
SE505P	1/2"-14 NPT	NPT
SE504P	3/4"-14 NPT	NPT
SE506P	1"-11.5 NPT	NPT
SE507P	1 1/4"-11.5 NPT	NPT

British Parallel PIPE Thread Series

SE601B	3/8"-19 BPPT	ISO1179
--------	--------------	---------

Metric ISO 6149 O-Ring Ports

SE20-ISO	M20 X 1.50	ISO 6149
SE22-ISO	M22 X 1.50	ISO 6149
SE27-ISO	M27 X 2.50	ISO 6149

Inch Straight SAE J-1926 O-Ring Port Series

SE10-SAE	7/8"-14 with O-Ring SAE 10	SAE J1926
SE12-SAE	1 1/16" - 12 with O-Ring SAE 12	SAE J1926
SE14-SAE	1 3/16" - 12 with O-Ring SAE 14	SAE J1926
SE16-SAE	1 5/16" - 12 with O-Ring SAE 16	SAE J1926
SE20-SAE	1 5/8" - 12 with O-Ring SAE 20	SAE J1926

Other adaptors and sizes are available

Banjo Bolt Tightening Information: Because of the diversity of oilpan constructions, materials, and thread wear, CAP is unable to exact applicable torque value for tightening the Banjo Bolt into the oil pan.. Please use the engine manufacturer's specifications for torque wrench values. Cap lists a recommended assembly torque on the Banjo Bolt Kits (BBK), but these are recommended for new engine oil pans only. If they have been previously serviced by shops using air wrenches or other improper tools, we recommend that you check the thread conditions prior to installation. For other information or clarification, please call.

For assistance in determining drain plug sizes or sizes not shown please call CAP
for an Applications Engineer at (888) 387-4973.

RECOMMENDED INSTALLATION PROCEDURE

For SE Hose Assembly

All Drain Hose Assemblies, Banjo Bolts and other fittings are intended to be installed by professional mechanics using state-of-the-art professional tools in good condition. CAP Oil Change Systems has attempted to be helpful by publishing or distributing technical bulletins that will assist the professional. Your questions, comments and recommendations are always welcome. Please contact us by phone at (888) 397-4973 or e-mail us at sales@capoilchangesystems.com

Bulkhead Connector



Top ISO Type
Coupler Shown

Stainless Steel
Ferrule



STEP 1: Select the desired location for the upper connector.

STEP 2: Determine the best hose route to the oil pan drain opening. Be sure that the routing clears all exhaust pipes, manifolds and other HOT surfaces or MOVING parts. The hose should be located at least 4 inches from any exhaust lines.

STEP 3: After ascertaining that the routing is appropriate, assemble Banjo bolt with spacer and hose banjo into oil pan thread. **Hand Tighten Only**

STEP 4: Run blank end of hose to desired coupling point and mark for cutting off. Important: Allow enough slack in hose for engine movement about its longitudinal axis as it torques up.

STEP 5: Cut hose to proper length. If hose cutting equipment is not available, a hacksaw is suitable. **Do not use a shear or scissor type cutting device.** (These types of cutting devices will deform the wire reinforcement braid in the hose wall.)

STEP 6: If it is practical, assemble the top coupler to the hose assembly.

STEP 7: Route the hose as previously planned and secure to oil pan with seals, spacer and oil pan gasket. Position banjo as planned and tighten to specifications with torque wrench. (See page 2 for banjo torque recommendations.)

STEP 8: Fasten top coupler in place with mounting hardware and fasten securely.

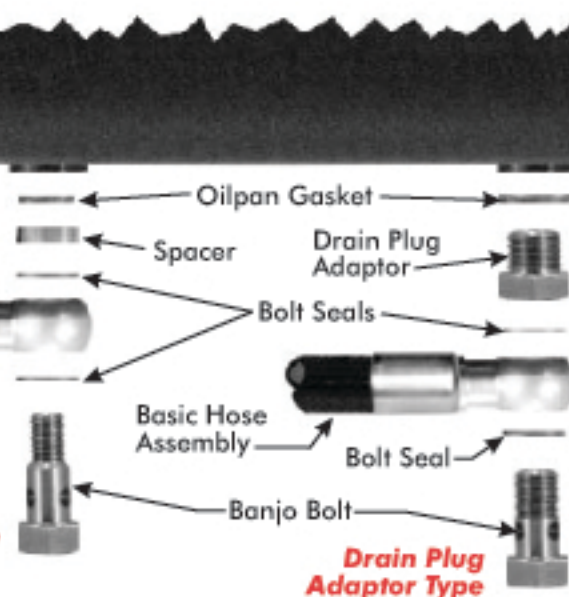
STEP 9: Install Dust Cover. (if used)

STEP 10: Refill oil pan with proper oil and check for leaks as engine comes up to temperature.

Typical Oilpan

Basic Hose Assembly

Banjo Type



Drain Hose Mounting Accessories and Options



90° Mounting Bracket - Part No.: ADC105
Straight Bracket - Part No.: ADC106



Optional 90° Bulkhead
Union Connector Assembly
Part No.: HF030



1/2" Hose Size
Plastic Coated Loop Clamp
Part No.: DA303

Other Cost Saving Products Available



TT-28
Engine Oil Extractor



TT-28MB
with Fluid Level Indicator



OD-28
Oil/Fluid Dispenser



FH-28
Fluid Handler/Filter



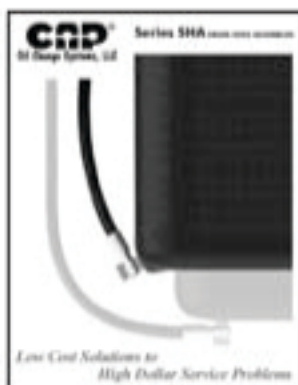
**Quick Coupler
Drain Plugs**



SATELLITE
Portable Service Tanks



Series JHA
Drain Hose Assembly



Series SHA
Drain Hose Assembly



**Oil Change
Accessories**

Additional Innovative Products are Currently Being Developed



Oil Change Systems

1543 Brownlee Ave., Roanoke, VA 24014

Toll Free: 888-387-4973

Toll Free Fax: 888-387-4981

www.capoilchangesystems.com

Your Authorized Factory Dealer Is:

Catalog SE-0406



Made in USA

All of our products are made in the USA and are warranted for materials and workmanship for two years