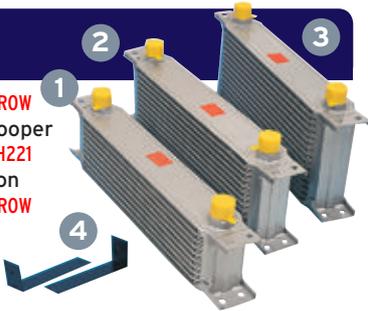


## 17 Oil Coolers, Hoses and Filters



### Oil Coolers

- 10 row oil cooler. . . . . MOC10ROW
- 13 row oil cooler as fitted to Cooper 'S'. . . . . C-ARH221
- 16 row oil cooler for competition use. . . . . MOC16ROW
- Original oil cooler brackets to fit on front subframe. Sold individually . . . . . 21A1794



(Check clearance on latest cars).

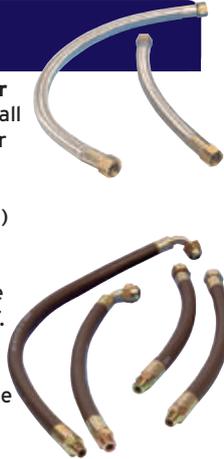
### Oil Cooler Hose Kits

- Mini Clubman / specials usually require longer pipe kits than the standard Mini. Kits include all unions for easy fitment. Rubber is adequate for standard use but Braided is more durable and preferred for Competition Performance use.

If a pre engaged starter is fitted (integral solenoid) the oil cooler has to be mounted closer to the alternator resulting in longer pipes.

A-series engines up to 1992 had a block union size of 5/8" UNF and filter head union size of 1/4" NPT. From 1992 on, union sizes changed on all engines with a 12A prefix number and became universal at 11/16" UNF. The filter head for these is recognisable by casting part number LPX10027.

See chart below for part numbers



Braided Kit Code	Rubber Kit Code	Fits Mini	Block To Cooler	Filter Head Pipe To Cooler
C-AHT3	MOC100102	(Mini Clubman)	14" - 14.5"	24"
C-AHT4	MOC1013	(Mini)	12"	14"
MOC1017	MOC1015	Pre-engage starter to '92	15"	22"
MOC1016	MOC1014	(12A engine/1992 ON)	15"	22"

### Oil Cooler Connections

- Oil temperature sender housing for special requirements when you need to know the temperature of the oil. Fitted before the oil cooler it will show maximum temperature reached. After the oil cooler it will show the more important temperature of the oil feeding the bearings. . . . . MOC0T2
- 1" long from bend push-fit 1/2" BSP thread union to fit oil cooler with 90° bend. Sold individually. . . . . MOC207
- 1" long from bend push-fit 1/2" BSP thread union to fit oil cooler with 45° bend. Sold individually. . . . . MOC208
- Original oil cooler union for oil filter. Supplied in complete kits. . . . . MOC2
- Original block union for oil cooler hose. Complete kits. . . . . MOC1
- Equivalent to number 9 and 10 as a kit, but with push-on ends for using oil cooler hose on special fitment in pairs only. . . . . MOC3
- Rubber oil-cooler hose sold per foot. i.e. 30cm. Order to length required . . . . . C-AHH8537



### Oil Cooler Thermostat

- The Mocal oil control thermostat is designed to prevent flow of engine oil until it has reached correct working temperature of about 80°C. Prolonged use of engine oil where it cannot reach its correct working temperature can cause sludge and crank case dilution, leading to excessive wear in crank bearings and cylinder bores. Fits into any convenient place where pipes can be cut and oil pipes run parallel. . . . . MOC0T1



### Braided Oil Filter Hoses

- Braided pipe for oil gauge, made to the required length of 4ft . . . . . C-AHT9
- Engine blocks to oil filter housing braided pipe kit. See chart below for part numbers

Fits Mini	Block Union Size	Filter Head Union Size	Order hose & union kit as
Pre 1992	5/8"	1/4NPT	TAM2106BRAIDED
Pre 1992	5/8"	11/16"unf	MOC1019
12A engine/1992 on	11/16"unf	11/16"unf	MOC1018
12A engine/1992 on	11/16"unf	1/4NPT	MOC1020



### Spin On Type Oil Filters

- a. Unipart first grade filter as fitted to new cars (spin on type). . . . . GFE166  
b. For twin point injection cars, 97on . . . . . GFE280
- Spin on type oil filter heads.  
a. Fits engines pre 1992 with 1/4npt union thread size. . . . . TAM2097  
b. Performance strengthened filter head type in billet alloy to stop leakage with 1/4npt union thread size. . . . . 12A2032RACE
- MAGCOM pre filter magnet collects debris from engine oil. Screws to the block for spin-on type filter heads. Except MPI . . . . . MF001
- Remote oil filter kit. This kit fits all A series engines that have a 2 bolt fixing filter head and takes a spin on filter. Used by many motorsport enthusiasts to make the filter accessible where engine bay room is tight. . . . . RFK9



### Top Quality Oil

- Classic Castrol 20W/50 oil supplied in retro style 1 gallon metal tin. . . . . CASTROL
- Castrol jug metal pouring pint jug. . . . . J105
- Millers oil specially formulated for Mini engine & gearbox.  
a. 20W50, mineral . . . . . MILLERS001  
b. 20W50, semi synthetic . . . . . MILLERS002
- a. GTX 5 litre, 15W 40 grade . . . . . GTX  
b. Unipart 20W50, Good general oil for standard engines or to run engines in before using synthetic oils . . . . . GUL7005T  
c. Unipart Semi Synthetic 10W40, Superb all round use oil. . . . . GUL2005B  
d. Unipart Fully Synthetic 5W40 . . . . . GUL1005B



Good quality oil is very important in Mini's as it has the dual function of lubricating the engine and gearbox. Some oils have a detergent base in them for keeping engines clean, but this in turn can cause wear on such items as layshaft, differential pins and baulk rings. Many performance, race engines benefit by using synthetic oils, which help by coating parts to prevent wear. They should not be used for running-in periods, as synthetic oil also puts a coating on rings, which prevents them from bedding in / sealing properly. NOTE: Oil can only be sent with filter not as part of larger package.

