



MMM Differential Assembly

Straight cut crownwheel and pinion sets have become available during recent years. They do not offer significant advantages. They are particularly noisy (even when correctly set-up) are basically for race cars, and have little, if any cost advantage and are best avoided whilst original stocks of spiral bevel units can still be purchased from us or at auto jumbles.

Pic.	Part	Description and Remarks	Model	Qty.
1	069*	Rear axle casing.	All models	1
2	104*	Rear axle differential cover (without oil filler).	P,K,N	1
2A	105*	Rear axle differential cover (with oil filler).	M,D,J,F,L	1
2B	105A	Differential cover oil filler plug & washer.	M,D,J,F,L	1
3	106	Rear axle differential cover gaskets.	All MMM	2
4	092	Half-shaft, high tensile alloy steel.	All models	2
5	107	8 BOLT, Crownwheel & pinion set, for use in 4-star differentials. — a choice of ratios is normally available. (Original new spiral bevel sets.).	All models	Set
5A	108	6 BOLT, Crownwheel & pinion set, for use in 2-star differentials. — a choice of ratios is normally available. (Original new spiral bevel sets.).	M,D,F,J,L	Set
6	109*	8 BOLT housing for 4-star differential centre (2 parts).	All models	1
6A	110*	6 BOLT housing for 2-star differential centre (2 parts).	M,D,J,F,L	1
7	111*	Spider (4 star assembly).	All models	1
7A	112*	Spider (2 star assembly).	M,D,F,J,L	1
8	113*	Differential gear.	All models	2
9	114*	Planet (star) wheels.	All models	2/4
10	115*	Bolt for crownwheel & pinion.	All models	6/8
11	116	Differential carrier bearing.	All models	2
12	117	Tab washer.	All models	2
13	118*	Adjustable lock nut.	All models	2
14	119*	Differential case complete with bearing caps (with oil filler plug.).	P,N models	1
14A	120*	Differential case complete with bearing caps (without oil filler plug.).	M,D,F,J,L	1
15	121*	Pinion bearing circlip.	All models	1
16	122	Pinion bearing, rear (roller type).	All models	1
17	123*	Pinion housing.	All models	1
18	124*	Pinion bearing distance tube.	All models	1
19	125	Pinion bearing front — standard race.	M,D,F,J,L	1
19A	126*	Pinion bearing front — heavy duty bronze cage.	P,N models	1
20	127*	Pinion housing shims.	All models	As reqd.
21	128*	Pinion housing end cap.	All models	1
22	129*	Pinion to prop shaft flange (3 prong type).	M models / Morris Minor	1
22A	130*	Pinion to prop shaft flange (6 bolt, circular type).	D,F,J,L	1
22B	131*	Pinion to prop shaft flange (4 bolt, square type).	P,N	1
23	132*	Pinion spacer washer & nut.	All models	1
	135*	Complete secondhand differential assembly — ready to bolt into back axle casing.	All models	1

The basic differential assemblies shown above cover the design and operation of all MMM differentials.

● 2-STAR assemblies were originally fitted as standard to the following models: M, D, F, J, L and used a 6 bolt crownwheel and pinion assembly of ratios 9:44(M type only); 9:43 (F type only); 8:43; 7:37; 8:39 (suitable all models).

● 4-STAR assemblies were originally fitted as standard to the following models: P,K,N and they used an 8 bolt crownwheel and pinion assembly of ratios 8:43; 7:37; 8:39; (10:52; 9:39; 9:44; 9:52 K types).

N.B. It is quite acceptable to fit the stronger 4-STAR assemblies into the models that originally used 2-STAR units. However, all 6-bolt crownwheel and pinion assemblies *only* use a 2-STAR centre. 8-bolt crownwheel and pinion assemblies can use either a 2-STAR or a 4-STAR centre, and those using a 2-STAR centre can be altered to 4-STAR if required, by purchasing part Nos. 109, 111, 114 (x2).

N.B. As it is not possible to illustrate every variant of all items please refer to general description and STATE MODEL TYPE REQUIRED.

* Available in secondhand condition only.



When fitting a new axle half-shaft, the SHORTER splined end is the differential end.

