



IMSA TECHNICAL BULLETIN IPCM #17-01

To: IMSA Prototype Challenge Presented by Mazda Participants

From: IMSA Technical Department

Date: 3 March 2017

Re: 2017 Gear Ratio Information - P3 Cars

IMSA Prototype Challenge Presented by Mazda P3 Cars will be required to utilize the "Short" gear ratio set at all events unless otherwise indicated in the Event Supplemental Regulations.

Xtrac will be prepared to re-fit gear ratio clusters beginning Wednesday afternoon, March 8, 2017. Teams will be asked to remove the gear cluster and present it to the Xtrac Service area to have the "short" gear ratio set installed. Once the gear sets have been installed the Team will re-fit the gear cluster to the transaxle and Xtrac personnel will seal the transaxle.

The gear ratios in the short gear selection will provide for approximately 282 kph (175 mph) top speed at the engine rev limit established by the engine supplier.

The gear ratio comparison is as follows.

Long Stack					Short Stack				
Gear	Cluster	Ratio	Speed @ 7200	RPM Drop to:	Gear	Cluster	Ratio	Speed @ 7200	RPM Drop to:
1 st	13:37	2.846	73.74		1 st	13:37	2.846	73.4	
2 nd	13:29	2.231	93.6	5643	2 nd	13:29	2.231	93.6	5643
3 rd	13:23	1.769	118.1	5710	3 rd	15:28	1.867	111.9	6025
4 th	19:28	1.474	141.7	5997	4 th	14:22	1.571	132.9	6061
5 th	19:24	1.263	165.4	6171	5 th	20:27	1.350	154.7	6185
6 th	23:25	1.087	192.2	6195	6 th	16:19	1.188	175.9	6333

The kit price for the 3rd through 6th ratios, from Xtrac is \$4,150.