



# Competition Bulletin

no. C-75-11

## READ, SIGN AND PASS ON TO SERVICE MANAGER & MECHANICS

Sales Dept. \_\_\_\_\_ Subject **GEARING**  
 Parts Dept. \_\_\_\_\_ Models **GP 250 & MX-2**  
 Service Manager \_\_\_\_\_ Serial nos. **ALL**  
 Mechanics \_\_\_\_\_ Date **NOVEMBER 6th, 1975**

The Can-Am motorcycle is geared to suit the average rider under average conditions of competition. However, when it is critical to have the motorcycle geared to a specific speed, at maximum M.P.R.P.M., for a specific track, (ie: dirt track, 1/4 mile, etc...), you may have to change the overall reduction ratio by changing the gearbox sprocket, or the rear wheel sprocket. Reference to the following chart should, under normal circumstances, put you in the ball park. Final adjustments can be made after practice, after heats and before a final.

NOTE: These figures are calculated for the maximum H.P. engine R.P.M. of all MX-2 models, and based on a 13" rolling tire radius.

Engine sprocket & part number	13T (P / N 420-236-950)			14T (P / N 420-236-951)			15T (P / N 420-236-952)			
	Model	125	175	250	125	175	250	125	175	250
Rear wheel Sprocket & part number	RPM	9000	8700	8600	9000	8700	8600	9000	8700	8600
	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
38t (743-043-021)		76	73	86	81	79	92	87	84	99
40t (743-043-020)		72	69	81	77	75	88	83	80	94
42t (743-043-010)		68	66	78	74	71	83	79	76	89
44t (743-043-011)		65	63	74	70	68	80	75	73	85
46t (743-043-012)		62	60	71	67	65	76	72	70	82
47t (743-043-022)		61	59	69	66	64	75	70	68	80
48t (743-043-013)		60	58	68	64	62	73	69	67	78
50t (743-043-014)		57	55	65	62	60	70	66	64	75
52t (743-043-015)		55	53	63	59	57	67	64	62	72
54t (743-043-016)		53	51	60	57	55	65	61	59	70
56t (743-043-017)		51	50	58	55	53	63	59	57	67
58t (743-043-018)		49	48	56	53	52	60	57	55	65
60t (743-043-019)		48	46	54	52	50	58	55	53	62

Quick gearing experiments may be made if the rear wheel is installed as follows:

1. Do not use the bearing dust cover, p / n 743-037-000 (used on T'NT & older models).
2. Use only 3 sprocket retaining bolts (equally spaced).
3. Insert axle from drum side.

### To change sprocket, simply

1. Lift the chain off the sprocket.
2. Remove the sprocket bolts.

3. Remove the axle nut and withdraw the axle approximately 5-6".
4. Remove the wheel spacer.
5. Remove the sprocket.



- CAUTION:**
- 1) For final reassembly install 6 sprocket bolts.
  - 2) Place small O.D. end of wheel spacer against wheel bearing.
  - 3) Be sure chain connector clip is installed with closed end facing direction of travel.

**WARNING:** This information relates to the preparation and use of Can-Am motorcycle in competitive events and has been utilized safely and effectively by Bombardier Limited's professional racing team. However, Bombardier Limited disclaims liability for all damages and / or injuries resulting from the improper use of the contents. We strongly recommend that these modifications be carried out and / or verified by a highly skilled professional racing mechanic. It is understood that such modifications may render use of the vehicle illegal in other than sanctioned racing events under existing federal, provincial and state regulations.

