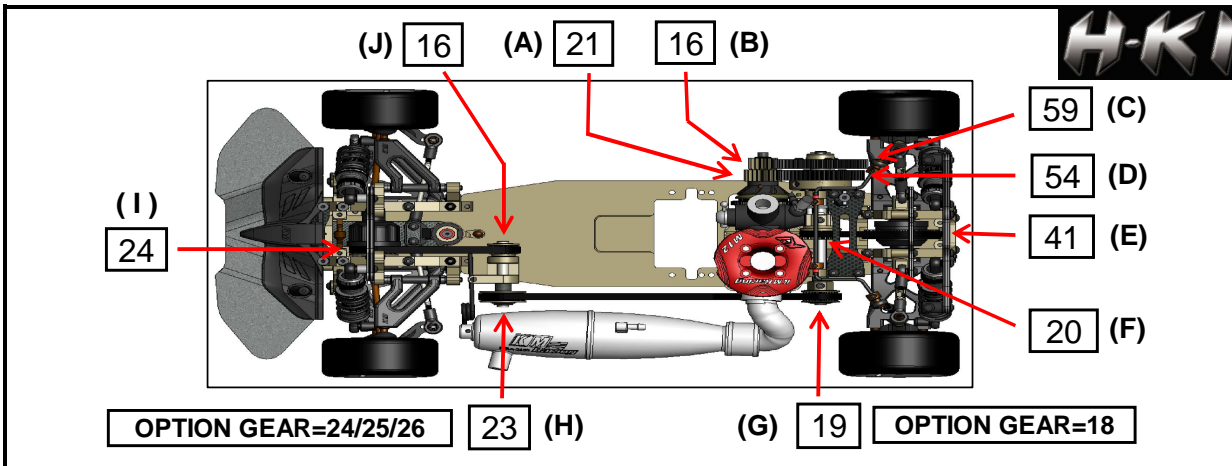


# GEAR RATIO FOR H-K1



1. DETERMINE THE DRIVE TRAIN RATIO (DTR) - THE RATIO OF ALL THE INTERNAL GEARS FROM THE TRANSMISSION, INCLUDING DIFFERENTIALS AND PULLEYS IS KNOWN AS THE DRIVE TRAIN RATIO.

FRONT DTR = (H)/(G)\*(I)/(J)

REAR DTR = (E)/(F)

	SET 1	SET 2	SET 3	SET 4	SET 5
DTR RATIO	G=18T H=24T	G=19T H=23T	G=19T H=24T	G=19T H=25T	G=19T H=26T
FRONT DTR	2.00	1.82	1.89	1.97	2.05
REAR DTR	2.05	2.05	2.05	2.05	2.05
OVERDRIVE RATIO	1:1.03	1:1.13	1:1.08	1:1.04	1:1

PRIMARY DRIVE RATIO (PDR) = Spur / Pinion

FINAL DRIVE RATIO (FDR) = PDR x DTR

(SET 1) FRONT FINAL DRIVE RATIO ( FRONT DTR = 2.00 )

G=18T H=24T			PINION GEAR							
			1st GEAR ( B )			2nd GEAR ( A )				
			15	16	17	20	21	22	23	24
SPUR GEAR	1st GEAR ( C )	58	7.73	7.25	6.82					
		59	7.87	7.38	6.94					
		60	8.00	7.50	7.06					
	2nd GEAR ( D )	53				5.30	5.05	4.82	4.61	4.42
		54				5.40	5.14	4.91	4.70	4.50
		55				5.50	5.24	5.00	4.78	4.58

(SET 2) FRONT FINAL DRIVE RATIO ( FRONT DTR = 1.82 )

G=19T H=23T			PINION GEAR							
			1st GEAR ( B )			2nd GEAR ( A )				
			15	16	17	20	21	22	23	24
SPUR GEAR	1st GEAR ( C )	58	7.04	6.60	6.21					
		59	7.16	6.71	6.32					
		60	7.28	6.83	6.42					
	2nd GEAR ( D )	53				4.82	4.59	4.38	4.19	4.02
		54				4.91	4.68	4.47	4.27	4.10
		55				5.01	4.77	4.55	4.35	4.17

(SET 3) FRONT FINAL DRIVE RATIO ( FRONT DTR = 1.89 )

G=19T H=24T			PINION GEAR							
			1st GEAR ( B )			2nd GEAR ( A )				
			15	16	17	20	21	22	23	24
SPUR GEAR	1st GEAR ( C )	58	7.31	6.85	6.45					
		59	7.43	6.97	6.56					
		60	7.56	7.09	6.67					
	2nd GEAR ( D )	53				5.01	4.77	4.55	4.36	4.17
		54				5.10	4.86	4.64	4.44	4.25
		55				5.20	4.95	4.73	4.52	4.33

(SET 4) FRONT FINAL DRIVE RATIO ( FRONT DTR = 1.97 )

G=19T H=25T			PINION GEAR							
			1st GEAR ( B )			2nd GEAR ( A )				
			15	16	17	20	21	22	23	24
SPUR GEAR	1st GEAR ( C )	58	7.62	7.14	6.72					
		59	7.75	7.26	6.84					
		60	7.88	7.39	6.95					
	2nd GEAR ( D )	53				5.22	4.97	4.75	4.54	4.35
		54				5.32	5.07	4.84	4.63	4.43
		55				5.42	5.16	4.93	4.71	4.51

(SET 5) REAR FINAL DRIVE RATIO ( REAR DTR =2.05 ) & FRONT FINAL DRIVE RATIO ( FRONT DTR=2.05 )

G=19T H=26T			PINION GEAR							
			1st GEAR ( B )			2nd GEAR ( A )				
			15	16	17	20	21	22	23	24
SPUR GEAR	1st GEAR ( C )	58	7.93	7.43	6.99					
		59	8.06	7.56	7.11					
		60	8.20	7.69	7.24					
	2nd GEAR ( D )	53				5.43	5.17	4.94	4.72	4.53
		54				5.54	5.27	5.03	4.81	4.61
		55				5.64	5.37	5.13	4.90	4.70