

0.3 MODule GEARS

20 degree pressure

Part number construction	W3MBTT-6	TT=# of teeth (0-5 are worms) TT code
Worm OD identifier (odd #= <i>bulk pack of 6</i>)		B=Bore code Bcode
Gear tooth size		M=Material code Mcode

GEAR DIMENSIONS/ DATA
 OD (Outside diameter)= Number of teeth (TTcode) plus 2 times 0.3mm (ie. 20 tooth gear OD=(20+2)x0.3=22x0.3=6.6mm (6.6/25.4=0.260")
 PD (Pitch diameter)= Number of teeth (TTcode) times 0.3mm
 Face width—nominal 0.85" (0.003" TIR—less than 0.8mm (.003")
 Worm bore is light press-fit/slip fit Gear bore—light press fit
 Worm length is nominal .250" (unless indicated otherwise)
 Quality level—commercial or better

SPUR GEARS *(brass unless indicated otherwise)				
Material	Mcode	Bore	Bcode	NUMBER OF TEETH TTcode
Brass	7	1.2mm		17 (#1081-6 delrin); 8 (#37808-6)
Brass	7*	1.5mm	4	8 (#2083-6); 10; 12; 20; 22; 24 (#2085-6); 14 (#2114-6 delrin); 26 (#37426-6); 25 (#37425-6)
Brass	7	1.7mm		12 (#1014-6); 16 (#1070-6 delrin);
Brass	7	2.0mm	5	15 (#2084-6); 26 (#1027-6); 16 (#1069-6 delrin); 15 (#37515-6)
Brass	7	2.25mm		15 (#343-6); 20 (#344-6); 21 (#345-6);
Brass	7	2.4mm		24 (#1373-6); 20 (#37020-6); 22 (#37022-6); 24 (#37024-6)
Brass	7	3.0mm		16 (#1030-6);

WORMS - 3.1mm OD 2.5mm PD Stock # series: 03MBTT-6				
Material	Mcode	Bore	Bcode	TTcode
Steel	0	1.5mm	4	00 (#30400-6) X .250 PD 02 (#30402-6) X .105 Flea
Steel	0	1.2mm	8	00 (#30800-6)

WORMGEARS for 3.1mm OD worm, single lead				
Material	Mcode	Bore	Bcode	TTcode
Brass	1	3/32"	0	12 (#31012-6) 15 (#31015-6)
Brass	1	1.5mm	4	15 (#31415-6)
Delrin	2	1.5mm	4	15 (#32415-6)

REVERSE WORMGEARS (LH) for 3.1mm OD worm, single lead				
Material	Mcode	Bore	Bcode	Number of Teeth TTcode

WORMS - 5.0 OD 4.4 PD Stock # series: 23MBTT-6				
Material	Mcode	Bore	Bcode	TTcode
Steel	0	3/32"	0	00 (#1311-6) 01 (LH #1317-6)
Steel	0	2.0mm	5	00 (#1312-6) 01 (LH #1334-6)
Steel	0	1.5mm	5	00 (#1313-6) 01 (LH #1335-6)

WORMGEARS for 5.0mm OD worm, single lead				
Material	Mcode	Bore	Bcode	Number of Teeth TTcode
Brass	1	3/32"	0	28 (#1331-6) 28 (#1339-6)
Brass	1	1/8"	1	28 (#1304-6) 28 (#1306-6) 36 (#1322-6) 36 (#1324-6)
Brass	1	3.0mm	7	28 (#1301-6) 28 (#1303-6) 28 (#1305-6) 36 (#1321-6) 36 (#1323-6)

REVERSE WORMGEARS (LH) for 5.0mm OD worm, single lead				
Material	Mcode	Bore	Bcode	Number of Teeth TTcode
Acetal	5	3.0mm	7	28 (#1318-6) 30 (#1302-6) 36 (#1319-6)

WORMS - 5.0 OD 4.4 PD double lead Stock # series: 43MBTT-6 Two lead				
Material	Mcode	Bore	Bcode	TTcode
Steel	0	3/32"	0	00
Steel	0	2.0mm	5	00

WORMGEARS for 5.0mm OD worm, double lead				
Material	Mcode	Bore	Bcode	Number of Teeth TTcode

REVERSE WORMGEARS (LH) for 5.0mm OD worm, double lead				
Material	Mcode	Bore	Bcode	Number of Teeth TTcode

72DP/0.35 MODule GEARS

20 degree pressure angle

Part number construction	W1 MBTT-6	TT= # of teeth (0-5 are worms) <i>TTcode</i>
Worm OD identifier (<i>odd# = bulk pack of 6</i>)	B= Bore code <i>Bcode</i>	
Gear tooth size	M= Material & gear type code <i>Mcode</i>	

GEAR DIMENSIONS/DATA

OD = Number of Teeth (TTcode) plus 2 times 0.35mm (ie. 20 tooth gear OD = (20+ 2) x 0.35 = 22 x 0.35 = 7.7mm (7.7/25.4 = 0.303")

PD = Number of Teeth (TTcode) times 0.35 (use PD to determine shaft center-to-center spacing)

Face width - nominal 0.085/.090"

Worm bore is light press-fit/slip fit to dimension

Worm length nominal 0.250"

TIR - less than 0.8mm (0.003")

Gear bore is light press-fit to dimension

Quality level - commercial or better

SPUR GEARS

Material	Mcode	Bore	Bcode	Number of Teeth TTcode						Teeth	OD	PD	
				10	15	20	24	30	36				40
Brass	7	3/32"-2.4mm	0	10	15	20	24	30	36	40	10	.178"	.150"
Brass	7	1/8"	1		15	20	24	30	36	40	15	.240"	.212"
Brass	7	2.0mm	5	10	15	20	24	30	36	40	20	.306"	.278"
Brass	7	3.0mm	7		15	20	24	30	36	40	24	.361"	.333"
Delrin	8	3/32"-2.4mm	0		15	20	24	30	36	40	30	.444"	.417"
Delrin	8	1/8"	1		15	20	24	30	36	40	36	.527"	.500"
Delrin	8	2.0mm	5		15	20	24	30	36	40	40	.583"	.556"
Delrin	8	3.0mm	7		15	20	24	30	36	40			

WORMS - 3/16" OD 0.160" PD Stock # series: 01MBTT-6

Material	Mcode	Bore	Bcode	TTcode	
Steel	0	3/32"	0	00 (RH)	#1317-4 (LH)
Steel	0	1.5mm	4	00 (RH)	#1335-6 (LH)
Steel	0	2.0mm	5	00 (RH)	#1334-6 (LH)

WORMGEARS for 3/16" OD worm, single lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode						
				10	15	20	24	30	36	40
Brass	1	3/32"-2.4mm	0	10	15	20	24	30	36	40
Brass	1	1/8"	1		15	20	24	30	36	40
Brass	1	2.0mm	5	10	15	20	24	30	36	40
Brass	1	3.0mm	7		15	20	24	30	36	40
Delrin	2	3/32"-2.4mm	0		15	20	24	30	36	40
Delrin	2	1/8"	1		15	20	24	30	36	40
Delrin	2	2.0mm	5		15	20	24	30	36	40
Delrin	2	3.0mm	7		15	20	24	30	36	40

REVERSE WORMGEARS (LH) for 3/16" OD worm, single lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode						
				10	15	20	24	30	36	40
Brass	4	3/32"-2.4mm	0	10	15	20	24	30	36	40
Brass	4	1/8"	1		15	20	24	30	36	40
Brass	4	2.0mm	5	10	15	20	24	30	36	40
Brass	4	3.0mm	7		15	20	24	30	36	40
Delrin	5	3/32"-2.4mm	0		15	20	24	30	36	40
Delrin	5	1/8"	1		15	20	24	30	36	40
Delrin	5	2.0mm	5		15	20	24	30	36	40
Delrin	5	3.0mm	7		15	20	24	30	36	40

WORMS - 3/16" OD 0.160" PD double lead Stock # series: 21MBTT-6 Two lead

Material	Mcode	Bore	Bcode	TTcode	
Steel	0	3/32"	0	00	
Steel	0	2.4mm	6	00	

WORMGEARS for 3/16" OD worm, double lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode						

REVERSE WORMGEARS (LH) for 3/16" OD worm, single lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode						

0.4MODule GEARS

20 degree pressure angle

Part number construction	W5MBTT-6	TT=# of teeth (0-5 are worms) <i>TTcode</i>
Worm OD identifier (<i>odd# = bulk pack of 6</i>)	B=Bore code <i>Bcode</i>	
Gear tooth size	M=Material & Gear type code <i>Mcode</i>	

GEAR DIMENSIONS/DATA

OD = Number of Teeth (TTcode) plus 2 times 0.4mm (ie. 20 tooth gear OD = (20+ 2) x 0.4 = 22 x 0.4 = 8.8mm (8.8/25.4 = 0.346")

PD = Number of Teeth (TTcode) times 0.4 (use PD to determine shaft center-to-center spacing)

Face width - nominal 3.0mm (0.118") Worm bore is light press-fit/slip fit to dimension

SPUR GEARS					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	7	2.0mm	5	21 (#333-6)	
Brass	7	2.4mm	6	10 (#1020-6)	
Brass	7	2.5mm		14 (#341-6)	15 (#342-6) 20 (#346-6) 21 (#325-6)
Brass	7	3.0mm	7	17 (#1025-6) 21 (#347-6) 22 (#323-6)	

WORMS - 6.0mm OD 5.2mm PD Stock # series: 5MBTT-6					
Material	Mcode	Bore	Bcode	TTcode	
Steel	0	2.4mm	6	00 (RH, #1401-6) 01 (LH, #1404-6)	

WORMGEARS for 6.0mm OD worm, single lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	1	3/32"-2.4mm	1	14 (#1422-6)	
Brass	1	1/8"	1	14 (#1421-6)	
Brass	1	3.0mm	7	14 (#1420-6)	28 (#1410-6)

REVERSE WORMGEARS (LH) for 6.0mm OD worm, single lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	4	1/8"	1	28 (#1413-6)	
Brass	4	3.0mm	7	28 (#1411-6)	
Brass	4	4.0mm-5/32"	8	28 (#1415-6)	

WORMS - 6.0mm OD 5.2mm PD double lead Stock # series: 45MBTT-6 Two lead					
Material	Mcode	Bore	Bcode	TTcode	
Steel	0	2.4mm	6	00 (#1407-6)	

WORMGEARS for 6.0mm OD worm, double lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	1	3/32"	0	14 (#1425-6)	
Brass	1	1/8"	1	14 (#1424-6)	
Brass	1	3.0mm	7	14 (#1423-6)	

REVERSE WORMGEARS (LH) for 6.0mm OD worm, double lead

Material	Mcode	Bore	Bcode	Number of Teeth TTcode	

0.5MODule GEARS

20 degree pressure angle

Part number construction	W7MBTT-6	T=# of teeth (0-5 are worms) TCode
Worm OD identifier (odd#=bulk pack of 6)	B=Bore code Bcode	
Gear tooth size	M=Material & Gear type code Mcode	

GEAR DIMENSIONS/DATA

OD = Number of Teeth (TCode) plus 2 times 0.5mm (ie. 20 tooth gear OD = (20+2) x 0.5 = 22 x 0.5 = 11mm (11/25.4 = 0.433")
 PD = Number of Teeth (TCode) times 0.5 (use PD to determine shaft center-to-center spacing)
 Face width - nominal 3.0mm (0.118") Worm bore is light press-fit/slip fit to dimension
 TIR - less than 0.5mm (0.003") Gear bore is light press-fit to dimension Quality level - commercial or better

SPUR GEARS																					
Material	Mcode	Bore	Bcode	Number of Teeth TCode																	
Brass	7	2.4mm	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

WORMS - 8.0mm OD 7.0mm PD Stock # series: 7MBTT-6 (to be discontinued - use 6.5mm worm series)										
Material	Mcode	Bore	Bcode	Number of Teeth TCode						
Steel	0	1/8"	1	00						
Steel	0	2.4mm	6	00						

WORMGEARS - for 8.0mm OD worm, single lead (to be discontinued - use 6.5mm worm series)										
Material	Mcode	Bore	Bcode	Number of Teeth TCode						
Brass	1	5/32"	8	14	20	22	26			

WORMS - 6.5mm OD 5.5mm PD Stock # series: 27MBTT-6										
Material	Mcode	Bore	Bcode	TCode						
Steel	0	1/8"	1	00						
Steel	0	2.4mm	6	00						

WORMGEARS for 6.5mm OD worm, single lead									
Material	Mcode	Bore	Bcode	Number of Teeth TCode					
Delrin	2	1/8"	1	25					
Delrin	2	3/16"	2	25					
Delrin	2	1/4"	3	25					
Delrin	2	5.0mm		25	(# 1516-6)				
Delrin	2	5.8mm		25	(# 1518-6)				
Delrin	2	6.0mm		25	(# 1520-6)				
Delrin	2	0.162"		25	(# 1534-6)				

REVERSE WORMGEARS (LH) for 6.5mm OD worm, single lead									
Material	Mcode	Bore	Bcode	Number of Teeth TCode					
Brass	4	3/16"	2	25					
Brass	4	1/4"	3	25					
Brass	4	5.0mm		25	(# 1515-6)				
Brass	4	5.8mm		25	(# 1517-6)				
Brass	4	6.0mm		25	(# 1519-6)				
Brass	4	0.162"		25	(# 1533-6)				

WORMS - 6.5mm OD 5.5mm PD double lead Stock # series: 47MBTT-6 Two lead										
Material	Mcode	Bore	Bcode	TCode						
Steel	0	1/8"	1	00						
Steel	0	2.4mm	6	00						

WORMGEARS for 6.5mm OD worm, double lead									
Material	Mcode	Bore	Bcode	Number of Teeth TCode					
Delrin	2	1/8"	1	25					
Delrin	2	3/16"	2	25					
Delrin	2	1/4"	3	25					
Delrin	2	5.0mm		25	(# 1526-6)				
Delrin	2	5.8mm		25	(# 1528-6)				
Delrin	2	6.0mm		25	(# 1530-6)				

REVERSE WORMGEARS (LH) for 6.5mm OD worm, double lead									
Material	Mcode	Bore	Bcode	Number of Teeth TCode					
Brass	4	3/16"	2	25					
Brass	4	1/4"	3	25					
Brass	4	5.0mm		25	(# 1525-6)				
Brass	4	5.8mm		25	(# 1527-6)				
Brass	4	6.0mm		25	(# 1529-6)				

0.6 MODule GEARS

20 degree pressure angle

Part number construction	W8MBTT-6	TT= # of teeth (0-5 are worms) <i>TTcode</i>
Worm OD identifier (<i>odd# = bulk pack of 6</i>)		B= Bore code <i>Bcode</i>
Gear tooth size		M= Material & gear type code <i>Mcode</i>

GEAR DIMENSIONS/DATA

OD = Number of Teeth (TTcode) plus 2 times 0.6mm (ie. 20 tooth gear OD = (20+ 2) x 0.6 = 22 x 0.6 = 13.2mm (13.2/25.4 = 0.520"))
 PD = Number of Teeth (TTcode) times 0.4 (use PD to determine shaft center-to-center spacing)
 Face width - nominal 3.0mm (0.118") Worm bore is light press-fit/slip fit to dimension
 TIR - less than 0.8mm (0.003") Gear bore is light press-fit to dimension Quality level - commercial or better

SPUR GEARS					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
				none	

WORMS - 8.0mm OD 6.8mm PD Stock # series: 8MBTT-6					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Steel	0	1/8"	1	#1601-6 (RH) #1601-6 (LH)	

WORMGEARS - for 8.0mm OD worm, single lead					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Acetal	2	1/8"	1	23 (1610-6)	
Acetal	2	3/16"	2	23 (1612-6)	
Acetal	2	1/4"	3	23 (1614-6)	
Acetal	2	5.0mm		23 (1616-6)	
Acetal	2	5.8mm		23 (1618-6)	
Acetal	2	6.0mm		23 (1620-6)	

REVERSE WORMGEARS (LH) for 8.0mm OD worm, Single lead					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	4	3/16"	2	23 (1611-6)	
Brass	4	1/4"	3	23 (1613-6)	
Brass	4	5.0mm		23 (1615-6)	
Brass	4	5.8mm		23 (1617-6)	
Brass	4	6.0mm		23 (1629-6)	

WORMS - 8.0mm OD 6.8mm PD double lead Stock # series: 8MBTT-6 Two lead					
Material	Mcode	Bore	Bcode	TTcode	
Steel	0	1/8"	1	#1602-6 (RH)	

WORMGEARS for 8.0mm OD worm, double lead					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Acetal	2	1/8"	1	23 (1609-6)	
Acetal	2	3/16"	2	23 (1622-6)	
Acetal	2	1/4"	3	23 (1624-6)	
Acetal	2	5.0mm		23 (1626-6)	
Acetal	2	5.8mm		23 (1628-6)	
Acetal	2	6.0mm		23 (1630-6)	

REVERSE WORMGEARS (LH) for 8.0mm OD worm, double lead					
Material	Mcode	Bore	Bcode	Number of Teeth TTcode	
Brass	4	3/16"	2	23 (1621-6)	
Brass	4	1/4"	3	23 (1623-6)	
Brass	4	5.0mm		23 (1625-6)	
Brass	4	5.8mm		23 (1627-6)	
Brass	4	6.0mm		23 (1629-6)	

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Gears are very specific with a vast number of variations which makes it very difficult to obtain a replacement for an older and craftsman made product. Often the gear(s) were made specifically for the model and spares, if any, are no longer available. To aid model craftsman in repair of such models, NWSL, sometimes with the aid of a sponsoring modeler, has manufactured a large selection of replacements, almost always of better quality and choice of material. When you find a model with both worm and wormgear of brass, the wear rate is going to be very high on one or both gears—for improved gearing life, the wormgear should be immediately be replaced with a delrin gear before (the often irreplaceable) worm is destroyed. The vast variety and the specialty of these gears makes their handling cost extremely expensive on a unit basis, thus to aid NWSL in keeping their (and your) cost to a minimum, you need to determine what you need and wade through the list to see if you can find it. You do enjoy hide-n-seek didn't you?

These custom gears are in the 300-6, 1000-6, and 2100-6 series. Geared upgrade wheelsets can be found in the 2500-6 and 2600-6 series. See the current listings in the blue product list pages at the rear of this catalog or on the NWSL website www.NWSL.com.

When the original gearbox is of questionable serviceability (and would probably destroy the replacement gear), consider the various NWSL 'generic' gearbox kits (page 4-9, etc.) which can save just about any model steam locomotive and some diesels.

For gears you can't find, inquire direct to NWSL with as much information as you can determine—# of teeth, OD, ID, type (ie. SpurGear (|||||)); Wormgear—RH(/////); Reverse Wormgear—LH(\\\\\\)) - it can often help to know the application (where you found it).

Keep in mind (1) the attributions shown are where we (or the reporting modeler) found the gear—it may also appear in other models; and(2) different units of a given model, even though from the same manufacturer, may not have the same gears—some models have been repeatedly made with the same gears, others have changed gears in subsequent production runs (we have even found an instance of changed gears in models from the same production run!).

Part #	Teeth	Type	O.D.	Bore	Material	Used in	Notes:
Z Scale							
1033-6	14	SG	3.3mm	1.5mm	brass	Marklin motor spur	
1005-6	19	SG	4.1mm	1.5mm	brass	unknown	
N Scale Misc.							
2129-6	11	SG	5.0mm	2.0mm	delrin	C-brass 'N' BiPolar axle	axle
1077-6	12	WG	4.3mm	1.5mm	delrin	Joe Works, T-boiler Shay	
1054-6	14	SG	6.4mm	2.5mm	brass	ROW A/MRC 2-8-8-2	
2152-6	15	SG	5.15mm	1.0mm	delrin	Walthers/Rapido S2	axle
2105-6	17	SG	5.5mm	2.0mm	brass	PSC/Korea K-4, 4-6-2	
2178-6	20	cmpnd	6.6mm	.160"		OV/L DD40x	
2235-6	14T/23T	cmpnd				SAM/OV/L RS2/RS3/RSD3,4,5/Hallmark GP7, 9, RS2	
N Scale Bachmann							
1095-6	10	SG	4.8mm	1.55mm	delrin	Bachmann TGV	axle
2198-6	15	SG	6.8mm	1.65mm		Bachmann DD40	hubbed, axle
N Scale Concor							
2212-6	16	SG	5.25mm	1.5mm	brass	Concor U50 motor pinion	
2229-6	16	SG	5.25mm	1.5mm	brass	Concor U50 turbine motor	
2192-6	12T/20T	cmpnd	4.0mm	1.5mm		Concor/Rivarossi 4-6-6-4, 4-8-	
2166-6	12T/25T	cmpnd		1.5mm		Concor/Rivarossi Big Boy	
N Scale Hallmark							
1042-6	14	WG	5.6mm	.116"	delrin	F3, F7	
1091-6	16	WG	5.4mm	.125"	delrin	FT, OM F7, RS3	
2141-6	18	WG	6.0mm	3.21mm	delrin	Dash 8-39B, 8-40B	
N Scale Key Imports							
2189-6	13	SG	4.5mm	1.5mm	delrin	2-8-2 circa 1980s	
2144-6	14	SG	3.95mm	2.0mm	brass	Alco S1, S2, S4;/OMI	
2190-6	19	SG	6.4mm	1.5mm	delrin	2-8-2 circa 1980s	
1089-6	20	WG	5.5mm	3.0mm	delrin	ALCO S-1, S-3, S-4	
N Scale Lifelike							
2204-6	16	SG		1.0mm	delrin	Lifelike SW8, etc	hubbed (4/pkg)
2203-6	16	SG		1.0mm	delrin	Lifelike SW8, etc	hubbed (1/pkg)

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D.	Bore	Material	Used In	Notes
N Scale Overland Models							
1061-6	12	SG	5.4mm	1.5mm	brass	E1a	
2195-6	12	cmpnd	5.6mm	2.7mm	delrin	EMD E6	
2227-6	12	cmpnd	5.6mm	2.5mm	brass	EMD E6, E7, E8	
1074-6	23	WG	6.4mm	.122"	delrin	RS2/RS3/RSD3, SA M/Hallmark	fits 2144-6
HO Scale AHM							
311-6	17	SG				NKP M10000	
312-6	24	RWG		4.0mm	brass	0-8-0 regear (vert. motor vers.,	(1) gear, (1) w orm
1006-6	25	WG	9.45mm	2.4mm	delrin	ATSF 4-6-2	
313-6	26	WG	11.2mm	3.5mm	brass	4-8-4 speed reduction set 26-1	(1) gear, (1) RH w orm
309-6	34	WG	14.25mm	2.0mm		0-4-0/4-6-0/0-6-0T speed	(1) gear, (1) RH w orm
310-6	34	RWG	11.25mm	4.0mm	brass	USRA 0-6-0 speed reduction set	(1) gear, (1) RH w orm
308-6	36	WG		3.5mm	brass	MIKE speed reduction set	
HO Scale ALCO							
1031-6	14	SG	5.6mm	2.5mm	delrin	VH FM H24-66; Alco H20-44	
1060-6	15	RWG	6.8mm	2.5mm	brass	EP-4; LH 1200	
1030-6	16	SG	5.4mm	3.0mm	brass	W&R GE 44T	
1018-6	17	RWG	7.6mm	2.5mm	brass	WP BMT std subw ay	
1024-6	17	SG	7.6mm	2.0mm	brass	VH CPR gas-electric	
1025-6	17	SG	7.7mm	3.0mm	brass	S1/S2 Key S4	
2108-6	17	SG	9.5mm	5.0mm	brass	Pennsy O-1c	
2115-6	17	SG	6.6mm	2.5mm	brass	Oriental E7a/E3 (idler)	idler
2131-6	17	SG	7.6mm	2.5mm	delrin	NYC R-2; NYC 4-6-2	
2197-6	17	WG	7.6mm	3.0mm	delrin	KEY N&W Y5; SP AC6	axle
1099-6	18	RWG	10.0mm	5.0mm	delrin	OMI E3, E6	
2117-6	18	SG	7.0mm	3.0mm	brass	H24-66 compound bas	
2237-6	18	SG	8.0mm	2.5mm	delrin	NYC R2; 'S' RSD 4/5	
1041-6	19	SG	7.3mm	2.5mm	brass	VH H24-66; ALCO H20-44	
2143-6	19	SG	8.4mm	3.0mm		Oriental SD45; /Alco U50	compound base gear
333-6	21	SG	9.2mm	2	brass	SHS U-50/RS-2/RS-3/SD38-2	
1044-6	21	RWG	9.2mm	2.45mm	delrin	Sunset SF 2-8-2	
2172-6	21	RWG	6.9mm	2.5mm	delrin	WP PCC-1936	
1028-6	22	RWG	9.9mm	2.5mm	brass	LH, S2, H16-44	(note: also OM GP7,
1034-6	22	RWG	9.6mm	2.4mm	brass	SW-10, Winton SC	
1035-6	22	WG	9.6mm	2.4mm	brass	SW-10, Winton SC	
2196-6	22	SG	8.4mm	3.0mm	brass	Oriental EMD E7	compound
2116-6	25	RWG	11.0mm	4.5mm	delrin	SAM steam gearbox idler	CNR S2a 2-8-2, CNR 2-
2118-6	25	RWG	11.0mm	2.7mm	delrin	SAM steam gearbox idler	CNR S2a 2-8-2, CNR 2-
2123-6	25	RWG	13.5mm	3.9mm	brass	WSM SP 0-6-0 axle gear to fit	
2124-6	25	RWG	11.0mm	5.0mm	delrin	SAM steam gearbox idler	CNR S2a 2-8-2, CNR 2-
2135-6	25	RWG	10.8mm	2.0mm	delrin	KEY steam	idler
1019-6	26	WG	11.2mm	5.1mm	delrin	WP BMT 1200/IRT subw ay	
1027-6	26	RWG	8.4mm	2.0mm	brass	RSC2, RSD4/5; AU'80 class'	
2158-6	26	WG (2-lead)			delrin	SD40, RSD15 70% speed increas	(2) gears, (2) w orms,
1004-6	27	WG	11.6mm	5.0mm	delrin	NYC R-2 elec	
1023-6	27	WG	11.6mm	3.0mm	brass	SAM steam gearbox idler	CNR S2a 2-8-2, CNR 2-
1032-6	27	WG	11.6mm	3.0mm	delrin	Sunset UP 2-8-8-0Bullmoose	
2186-6	27	RWG	8.5mm	3/32"	delrin	PSC, etc. (idler)	
2187-6	27	WG	8.5mm	3.0mm	delrin	PSC, etc. (axle)	
1076-6	28	WG	12.0mm	5.0mm	delrin	W&R UP-NP gas-electric	
1022-6	29	SG	11.0mm	2.4mm	brass	H20-44, H24-66	
1052-6	29	SG	10.8mm	2.5mm	brass	VH TM; Alpha PA E-44	
2134-6	29	RWG	9.3mm	2.0mm	delrin	Trax NSWGR Z12 4-4-0	
2231-6	32	RWG	10.35mm	2.0mm	delrin	Trax NSWGR (idler)	
2151-6	35	SG	11.0mm	2.5mm	delrin	Mansfield NSWGR45 class	compound
2180-6	36	WG	11.4mm	5.0mm	delrin	Alpha PRR B-1 0-6-0	compound
2220-6	36	WG	15.2mm	2.4mm	delrin	SAM VGN EF104	
2164-6	37	WG	15.6mm	2.5mm	brass	VGN EL2b	
1021-6	39	WG	16.4mm	2.4mm	delrin	VGN elec	
HO Scale ATHEARN							
2193-6	12	SG		3/32"	delrin	Athearn diesel (NWSL) axle	1/pkg - same as 2194-6
2194-6	12	SG		3/32"	delrin	Athearn diesel (NWSL) axle	4/pkg - same as 2193-6
2106-6	15	WG	6.8mm	3/32"	delrin	c1960s geared RDC	
2181-6	17	SG	9.3mm	2.4mm	delrin	Athearn 2-8-2, 4-6-2	idler, on 2.4mm shaft
2147-6	21	SG	11.5mm	5.0mm	delrin	Athearn 2-8-2, 4-6-2	axle
4064-6						Athearn 0-6-0/4-6-2 (C1960)	(note: use #1067-6 if
1067-6						Athearn 0-6-0/4-6-2 (C1960) steam gearbox upgrade idler	

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D	Bore	Material	Used In	Notes
HO Scale Bachmann							
2401-6	14	RWG	8.0mm	1.5mm	delrin	Spectrum EMD SG45	
2260-6	15	SG	6.6mm	1.5mm	delrin	Shay	
2415-6	16	SG	8.9mm	3.0mm	delrin	2-6-0 NG Express, axle	
2132-6	18	WG	8.0mm	2.5mm	delrin	Spectrum 2-8-0	
2228-6	18	SG	10.0mm	2.0mm	delrin	F diesel	axle
2461-6	18	SG	8.0mm	2.0mm	delrin	HO C&O H4, 2-6-6-2	
HO Scale Custom Brass							
1000-6	14	RWG	5.0mm	2.4mm	delrin	CustomBrass DMC GE44T	
1012-6	21	WG	8.1mm	2.4mm	delrin	H-4 C&O 2-6-6-2; PRR Q1 4-4-4-4;	
1015-6	26	RWG	8.0mm	2.4mm	brass	Custom Brass 2-6-6-2	idler
HO Scale Kaw Valley							
1016-6	12	SG	6.0mm	2.4mm	brass	NYC S-1	
1062-6	12	SG	6.0mm	2.4mm	brass	NYC S-1 Electric	
1075-6	23	WG	10mm	2.4mm	delrin	NYC S-1 Electric	
HO Scale Kemtron							
2218-6	25	WG	8.1mm	3/32"	brass		idler
2221-6	29	SG	.365"	3/32"	brass	C-16 135:1 box axle gear	
2219-6	40	RWG	12.6mm	1/8"	brass		
HO Scale Key Imports							
2109-6	7	HELICAL	4.7mm			Feather River Shay	
338-6	15	WG/RWG	6.8mm	2.0mm	delrin	SHS MR#7/CASS#4 SHAY	(1) WG, (1) RWG per
2205-6	21	WG	9.2mm	2.5mm	delrin	SAM USRA 2-8-2, 2-10-2, M25, etc.	idler
2459-6	26	RWG	11mm	4.0mm	delrin	Key 2-6-6-6	
2457-6	26	RWG	11mm	4.0mm	delrin	SAM/KEY C&O	
336-6	28	WG	12mm	2.5mm	brass	SHS H-15/16/20-44, GP-7	
339-6	32	WG	11.9mm	2.0mm	brass	SHS Feather River SHAY	
2150-6	35	SG	11mm	2.0mm	delrin	SKI C&O 4-6-2	
2279-6	38	WG	12.2mm	3.0mm	delrin	Alco RS-3m	
HO Scale KMT							
2458-6	8	SG	4.5mm	2.0mm	delrin	KMT drive tow er idler gear	
1029-6	12	SG	7.0mm	3.0mm	brass	ITC 'MoundCityExpress'	
2234-6	12	SG		2.0mm	delrin	"new" WG Tow er truck axle idler	
HO Scale NWSL							
1087-6	8	SG	4.0mm	1.5mm	brass	12T Climax w ormshaft gear	
1088-6	10	WG	3.75mm	1.5mm	delrin	12T Climax axle	
1013-6	11	WG	5.2mm	1.5mm	brass	Willamette/PFM B2/B3/PC	(note:Crank gear-Not
2421-6	21	WG	9.2mm	3.0mm	delrin	Milw Rd Little Joe Elec 'proper' axle	
2171-6	28	WG	8.9mm	2.5mm	brass	Custom 2.5mm bore axle gear for NWSL #146-6	
HO Scale Oriental Models							
1068-6	14	SG	6.0mm	2.4mm	delrin	OMAjin NP/GN gas-electric	
1047-6	20	WG	6.7mm	3.0mm	delrin	Woodward #3 2-6-2T	(note: 2 #1047-6 per
1048-6	20	RWG	6.7mm	3.0mm	delrin	Woodward #3 2-6-2T	
2269-6	21	RWG	9.15mm	2.4mm	delrin	UP 2-8-2	
HO Scale Overland Models							
2274-6	9	RWG	2.75mm	1.0mm	delrin	Tow er 55	
1014-6	12	SG	4.2mm	1.7mm	brass	GE 45T	
2232-6	14	WG	4.8mm	2.5mm	delrin	Ajin/OVL EL MU carl	axle
2233-6	14	WG	4.8mm	2.5mm	delrin	Ajin/OVL diesel	axle
1011-6	15	SG	6.7mm	3.0mm	brass	McKeen; OM #1807; NKP Zephyr	
1069-6	16	SG	5.4mm	2.0mm	delrin	GE 45T	
1070-6	16	SG	5.4mm	1.7mm	delrin	GE 45T	
2283-6	18	RWG	5.75mm	2.3mm	delrin	Ajin/OVL C-420 idler	
2102-6	22	WG	7.2mm	1.7mm	delrin	GE 45T	
2399-6	32	WG	10.35mm	2.0mm	delrin	P&R 4-4-2 Camelback idler	
2182-6	10T/31T	WG/RWG		2.0mm	brass	'tankdrive' compd gear	

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CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D.	Bore	Material	Used In	Notes
HO Scale Overland Models (cont'd)							
2102-6	22	WG	7.2mm	1.7mm	delrin	GE 45T	
2399-6	32	WG	10.35mm	2.0mm	delrin	P&R 4-4-2 Camelback idler	
2182-6	10T/31T	WG/RWG		2.0mm	brass	'tankdrive' compd gear	
HO Scale Pacific Fast Mail (PFM)							
1086-6	9	WG	4.43mm	2.4mm	brass	United Climax	
1040-6	14	WG	4.8mm	2.0mm	delrin	Tenshodo/Hanazou SPUD	
1085-6	14	WG-2LD	6.4mm	2.4mm	delrin	United Climax	
1081-6	17	SG	5.7mm	1.2mm	delrin	United Harrington Shay	
2214-6	26	SG	8.4mm	2.0mm	delrin	United transfer gear DSL etc	
2215-6	27	SG	8.8mm	2.4mm	delrin	United transfer gear DSL etc	
2256-6	30	WG	9.6mm	2.4mm	delrin	Early K-27	
HO Scale Precision Scale Co. (PSC)							
1036-6	13	WG-3LD	6.0mm	1.5mm	delrin	Class A Shay	
1065-6	13	WG	6.0mm	.098"	delrin	KTM 20T Shay	
2107-6	17	WG	10mm	4.35mm	delrin	GG-1 (#1695x-x) speed increase set (2 gears/2 w orms)	
2111-6	25	WG	10.7mm	2.5mm	delrin	PSC Shay (unkn)	
2127-6	25	WG	10.7mm	2.5mm	delrin	PSC Shay (unkn)	
2128-6	25	WG	10.7mm	2.5mm	brass	PSC Shay (unkn)	
2162-6	23	SG	9.9mm	2.5mm	delrin	PSC GG1	
HO Scale Rivarossi							
1073-6	13	SG	6.0mm	2.0mm		Rivarossi Heisler motor pinion - SP#1	
301-6	16	WG	7.0mm	2.25mm	delrin	Rivarossi (c1970-1990) upper GB kit for large steam locos (see also #317-6)	
2410-6	38	WG	12.15mm	5.0mm	delrin	UP #1595, 4-8-4	
307-6	44T/24T	WG/RWG				Rivarossi large steam 33% reduction gearset (see also #301-6)	
2137-6						Rivarossi 2-8-4 circa 2001 gearset (50% speed)	
2140-6						Rivarossi 2-8-4 circa 2001 gearset (same speed)	
2142-6						Rivarossi 4-6-2 c2001 w orm-compd-gear set 7% speed reduction	
HO Scale Samhonga (SAM)							
341-6	14	SG	6.4mm	2.5mm	brass	SD38-2/?	(2/pkg)
335-6	15	RWG	6.8mm	2.4mm	delrin	H-15/16/20-44, GP-7	(2/pkg)
342-6	15	SG	6.8mm	2.5mm	brass	SD38-2/?	(2/pkg)
343-6	15	SG	5.1mm	2.25mm	delrin	RSD-15/DL600B	(2/pkg)
349-6	15	RWG	6.8mm	2.4mm	brass		HI ANGLE (2/pkg)
2404-6	18	WG (2-lead)	12mm	5.0mm	delrin	NSWGR CPH Railmotor	
2449-6	18	WG	12mm	5.0mm	delrin	HO SAM DD40	
344-6	20	SG	6.6mm	2.25mm	brass	RSD-15/DL600B	(2/pkg)
346-6	20	SG	8.8mm	2.5mm	brass	F-3/F7/etc.? (Oriental)	(2/pkg)
325-6	21		9.2mm	2.5mm	brass	F3, F7, etc. (?)	(2/pkg)
345-6	21	SG	6.9mm	2.25mm	brass	RSD-15/DL600B	(2/pkg)
347-6	21	SG	9.2mm	3.0mm	brass	RS-3/RS-32/U-50/?	(2/pkg)
322-6	22		8.4mm	5.0mm	delrin	EMD E-units	(2/pkg)
323-6	22		9.6mm	2.5mm	brass	SD38-2	(2/pkg)
324-6	22		12mm	5.0mm	delrin	F3,FP7,GP20,H15-44, TM,GP7)	(2/pkg)
2273-6	22	WG (2-lead)	12.2mm	4.6mm	delrin	F3B Diesel	
337-6	23	WG	10mm	2.5mm	brass	Lima sw itcher	(2/pkg)
326-6	25		9.4mm	2.5mm	brass	EMD E-units	(2/pkg)
348-6	25	RWG	8.1mm	4.0mm	delrin	Hallmark WHITCOMB	(2/pkg)
327-6	37		12mm	5.0mm	delrin	Alco Models RS-1	(2/pkg)

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D.	Bore	Material	Used in
HO Scale Suydam						
1037-6	8	SG	5.1mm	2.0mm	brass	PE Niles 1300 (2 per)
329-6	10	SG	5.8mm	2.4mm	brass	power truck etc
1053-6	10	SG	6.0mm	2.0mm	brass	PE1544;414;Niles1300;Hts291
1020-6	10	SG	4.8mm	2.4mm	brass	TOHO top spur
2103-6	10	SG	5.8mm	2.0mm	delrin	certain trolleys
2148-6	10	WG	6.0mm	2.0mm	delrin	
2149-6	10	WG	6.0mm	3.0mm	delrin	
2242-6	10	RWG	7.6mm	3.0mm	delrin	
1001-6	13	WG	6.0mm	3.0mm	delrin	class 'C' loco
2241-6	22	SG	11.9mm	5.0mm	delrin	
HO Scale MISCELLANEOUS						
2104-6	10	SG	5.8mm	2.4mm	delrin	PacificTractionZephyr-KMT
2261-6	10	RWG (3-lead)	5mm	2.0mm	delrin	Beaver Creek 2-trk Willamette
2100-6	12	WG	5.5mm	1.45mm	delrin	HO WESTSIDE/PSC 20-ton Shay Worm-WG speed reduction
2462-6	12	SG	7.0mm	3.0mm	delrin	Lionel Veranda Turbine
2402-6	13	WG	6.0mm	3.0mm	delrin	Orion Long Is. RR MU Electric
2121-6	14	WG	3.9mm	2.0mm	delrin	Hanzou self powered truck
1045-6	14	SG	8.0mm	3.0mm	brass	NPP Pioneer Zephyr
334-6	14	WG	5.7mm	2.4mm	brass	WESTSIDE/NAKAMURA EMD E Unit Replacement Gears
1093-6	14	WG	6.4mm	2.4mm	delrin	MTS/FM Models Red Arrow
2114-6	14	SG	4.7mm	1.5mm	brass	WP CSL trolley
2281-6	14	SG	6.5mm	3.0mm	delrin	CB Orion NYC S-3 Electric
2173-6	15		6.8mm	1.2mm	delrin	12Ton VB Climax motor pinion
1046-6	16	WG	9.3mm	3.0mm	delrin	NPP Pioneer Zephyr
2396-6	16	SG	7.0mm	2.0mm	delrin	Tenshodo GN Y-1
1097-6	17	WG	.385"	3.0mm	brass	NPP CSS&SB 'C' electric(axle)
2239-6	17	WG	5.7mm	3.0mm	delrin	HO TOHO/NWSL Milw Rd Little Joe wormshaft assembly
2469-6	17	SG	9.5mm	2.0mm	delrin	HO Lionel UP Veranda Turbine (Tow er 1) (see also 2468-6
2413-6	18	SG	10mm	3.0mm	delrin	Franklin Steam Mint
2461-6	18	SG	8.0mm	2.0mm	delrin	Bachmann C&O H4 2-6-6-2
2249-6	19	WG	8.5mm	2.4mm	delrin	Daiyoung C&O B-1, 2-10-2
2112-6	20	SG	8.8mm	3.5mm	brass	Kawai Lima S1 c1955
2262-6	20	RWG	8.9mm	2.0mm	delrin	Beaver Creek 2-trk Willamette
2473-6	20	SG	10.9mm	4.9mm	delrin	Broadw ay Ltd. 2-10-4 axle gear
2470-6	20	SG	10.9mm	1.5mm	delrin	MRC Lima C-420 idler
2258-6	21	WG	8.2mm	2.4mm	delrin	Daiyoung UP 2-8-2 idler
2408-6	22	SG	11.8mm	4.26mm	delrin	Hallmark Santa Fe M-160 (M-180, M-190?)
2238-6	25		8.1mm	1.5mm	delrin	
305-6	26	WG	8.4mm	3.0mm		Westside K-27/37 HOn3
2471-6	26	SG	11.3mm	5.0mm	delrin	HO PRR 4-8-2 M1 a&b, On30 Broadw ay C-16
2113-6	28	WG		.115"	brass	CB Korean undersize axle
2167-6	28	WG	13.4mm	4.0mm	delrin	unk. brass model
2170-6	28	WG	8.9mm	2.6mm		HO NWSL Custom 2.6mm bore axle gear for NWSL #146-6
2411-6	30	WG	9.5mm	3.0mm	delrin	Kosmos 2-6-6-2
1098-6	35	WG/RWG		2.4mm		HO Tenshodo diecast transfer 35T gearbox 'silence gears'
2110-6	36	WG		.115"	brass	CB Korean undersize axle
2156-6	37	WG	15.6mm	3.0mm	brass	KTM/Balboa/Westside large steam
2276-6	38	WG	16mm	.125"	delrin	Balboa UP and Mantua 4-8-4
2451-6	38	WG	.472"	1/8"	delrin	HO Varney Dockside
304-6	40	WG	12.5mm	2.85mm	delrin	United Models (rod, not geared)
2468-6	18-Oct	SG/WG		2.5mm	compound	HO Lionel UP Veranda Turbine (Tow er 2) see also 2469-6
1057-6	27T/24T	WG/SG	.669"	3.0mm	compound	Franklin Mint 4-6-2
2101-6	n/a	n/a	n/a	n/a	n/a	Special installation tool (gear puller) for #2100-6
316-6						Lifelike GP37, E7, E9 30 main drive gear circa 1970/80
328-6						GSB/KUMATA Vertical Motor Power Truck Worm Kit

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D.	Bore	Material	Used in	Notes:
HOn3, HOn30 Joe Works							
1094-6	12	SG	4.0mm	1.5mm	delrin	HOn3 Mich-Cal Shay	(Note: -original has 2.0mm shaft, above has special 1.5mm shaft to minimize possibility of gear splitting again) (see also 1077-6, #1078-6)
1077-6	12	WG	4.5mm	1.5mm	delrin	HOn30 JOE WORKS T-boiler Shay	
2153-6	13	WG	4.5mm	2.0mm	delrin	HOn3 Joe Works Porter2-6-0 13T axle gear upgrade	
HOn3 Westside Models (WSM)							
2138-6	16	WG	5.4mm	2.4mm	delrin	Westside #15 Shay	
1007-6	25	WG	9.45mm	2.0mm	delrin	C-16	
2146-6	29	RWG	9.3mm	2.0mm	delrin	Balboa T-12	idler
2161-6	30	WG	9.6mm	2.5mm	delrin	SP#18 4-6-0; NCNG #92-8-0 (better	
2154-6	DISCONTINUED					HO/HOn3 WSL#3 Hoisler motor w orm-	
HOn3 Key Imports							
2177-6	26	WG	9.8mm	3.0mm		C&S#71, RGS #42	
HOn30 AHM/Rivarossi							
1063-6						HOn30 AHM/Rivarossi minitrains 0-4-0T/Plymouth Ws-WGb (set)	
HO Scale Tamiya Tank							
2174-6	10	SG	7.0mm	2.0mm	delrin	Tamiya tank motorshaft	
2175-6	10	SG	7.0mm	3.0mm	delrin	Tamiya tank axle	
2176-6	10	CMPND		2.0mm	delrin	Tamiya tank motorshaft	
2155-6	10	SG	7.0mm	2.3mm	delrin	Tamiya tank motorshaft	
S Scale							
2211-6	11	RWG	7.55mm	3.0mm	delrin	Ajin transfer gearbox	
1009-6	12	WG	7.0mm	2.4mm	brass	SAM SD40-1	
2424-6	12	RWG	7.0mm	2.4mm	delrin	Overland FA-2	
2285-6	12	RWG	7.0mm	3.0mm	delrin	Overland 0-8-0	
2120-6	16	WG	7.0mm	2.0mm	delrin	PBL Shay	
2125-6	20	SG	8.8mm	3.0mm	brass	ALCO RSD5 compd base	
1017-6	20	SG	8.8mm	2.0mm	brass	PBL shay	
2210-6	21	WG	13.75mm	3.0mm	delrin	Ajin transfer gearbox	
1090-6	22	WG	12.0mm	5.6mm	delrin	SAM NSWGR '45' diesel	
1079-6	26	WG	11.2mm	5.15mm	delrin	ALCO RS2/RSD4-5	may also fit VH/SAM HO
1080-6	26	WG	11.2mm	5.0mm	delrin	SAM SD45/NSWGR 40 diesel	
O Scale							
1072-6	10	SG	5.9mm	3.0mm		WILLIAMS N&W 2-6-6-4	
2191-6	10	WG	6.2mm	.093"	delrin	INDUSTRIAL trolley truck axle gear	
1083-6	14	WG	8.0mm	2.4mm	delrin	PSC #16291 65T Shay	
2207-6	16	RWG	10.75mm	3.0mm	delrin	OMI/Ajin 2390 idler gearbox	
2179-6	17	WG	9.5mm	2.0mm	delrin	Rivarossi IHB 0-8-0 idler	
2136-6	18	WG	11.95mm	6.0mm	delrin	Williams 4-8-8-4 axle gear	
2460-6	18	WG	9.9mm	.125"	delrin	Toonerville Trolley	need to replace w orm also w ith #270101-6
1082-6	19	RWG	12.5mm	3.0mm	delrin	SAM E6 4-6-0	
2185-6	21	WG	13.8mm	3.0mm	delrin	Overland NP loco	
2206-6	21	WG	10.75mm	3.0mm	delrin	OMI/Ajin 2390 idler gearbox	
2159-6	23	WG	12.5mm	3.0mm	delrin	PSC/SAM 'O' RF&P 4-8-4 idler	
2160-6	23	RWG	12.5mm	3.0mm	delrin	PSC/SAM 'O' RF&P 4-8-4 idler	
2252-6	24	SG	13mm	2.0mm	delrin	Bachmann Daylight 4-8-8, GS-4	
2255-6	24	SG	10.4mm	5.75mm	brass	AH&D Ditcher (On3 or O)	
2183-6	29	SG	18.6mm	3.0mm	delrin	K-Line interurban side gear	
1055-6	30	WG	16.0mm	6.0mm	delrin	Sunset	replace brass WG that
2284-6	30	WG	12.5mm	.125"	delrin	Tyco/Mantua 0-4-0, axle	
2406-6	40	WG	16.8mm	3.0mm	delrin	Redball 4-6-0 Camelback	
1058-6	16T/20T	CMPND	.430"	4.0mm		KTM/PSC A200	found in PSC/Korea SW
1096-6	16T/20T	RWG	.669"	4.0mm		KTM/PSC A101A	see 2145-6
2145-6	16T/20T	WG	16.6mm	4.0mm	delrin	KTM/PSC A103	see 1096-6
2130-6	19T16T	WG/SG		4.0mm		KTM early	

CUSTOM MANUFACTURED UPGRADE/REPLACEMENT GEARS

Part #	Teeth	Type	O.D.	Bore	Material	Used in	Notes:
On30 Gauge							
2471-6	26	SG	11.3mm	5.0mm	delrin	On30 Broadway Ltd. C-16, HO PRR 4-8-2 M1 a&b	
On3 Gauge PSC/MMIK-27, etc							
2217-6						LH worm 7.5mm OD; x 2.5mm shaft	
2213-6	28	RWG	15.0mm	2.5mm	delrin	LH worm 7.5mm OD	
2216-6	28	RWG	15.0mm	2.5mm	delrin		2.5mm
Large Scale							
1059-6						Worm, steel x 8.0mm OD x 4.0mm	replaces
2464-6	18	WG	12mm	6.0mm	delrin	K-Line GP-922	dbl hub
2119-6	20	WG	11.5mm		delrin	Delton Doozie 2 axle power truck	
2126-6	20	SG	11.0mm	5.16mm	brass	Bachmann #1 handcar axle gear	
2225-6	22	SG	18.9mm	6.0mm	delrin	Fn3 Bachmann 36T Shay axle gear	
2223-6	24	SG	15.5mm	1/4"	delrin	Bachmann 4-4-0 axle gear	
2226-6	25	SG	15.8mm	.250"	delrin	Fn3 Bachmann 2-8-0 axle gear	
2224-6	33	SG	27.8mm	4.5mm	delrin	Fn3 Berlyn K37 idler	
2165-6	33	WG	21.0mm	6.0mm	delrin	USA Trains GP9, F3, etc. diesel (axle)	
2236-6	34	WG	18.0mm	6.0mm	delrin	LGB various(axle)	
2163-6	34	WG	17.8mm	6.0mm	delrin	USA Trains NW2 diesel (axle)	
2222-6	31T/34T	SG/WG		3.0mm	delrin	LGB Mogul, etc.	
2230-6	34T/25T	WG/SG		3.0mm	delrin	LGB 2-4-0 compound gear	