

## READ ME FIRST!

### Special Instructions For A Cable-X Unit With A 30 Slot Disc And Switch 12 Activated

This is a 'special application' Cable-X. It is the new advanced Cable-X. Usually the Cable-X uses an 8-slot encoder disk. This Cable-X uses a 30-slot encoder disk. The 30-slot will give a much smoother cable rotation at lower speeds.

The installation instructions are setup for the 8-slot disk. This will cause some confusion during setup of the switch positions. Using the 30-slot disk will require a calculation to be performed after you have calculated your pulses per mile. Multiply your calculated pulses per mile by **.267** to get a corrected switch setting for the Cable-X.

Switch 12 in this Cable-X has also been activated and is **ONLY** used when reading a 'hall effect' sensor (3-wire VSS) or when a very weak signal level is present, giving the Cable-X difficulty reading the signal. Turn switch 12 'on' if required, otherwise leave it in the 'off' position. Switch 10 will **never** be used with a 30-slot model.

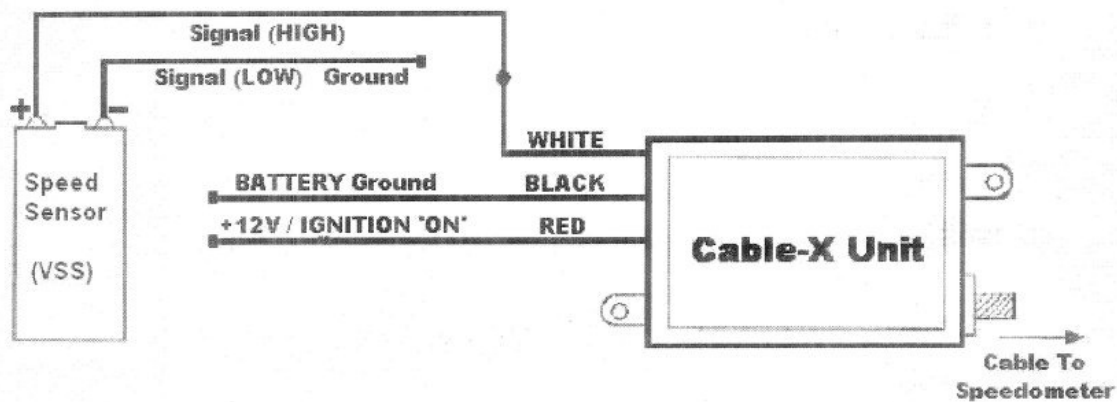
Connection directly to the VSS is the preferred signal source instead of the computer's speed output.

## Cable-X Installation Instructions

"1" Represents switch "on" or "closed"  
"0" Represents switch "off" or "open"

### Cable-X Wiring Diagram:

1. Connect the RED wire (through a 5 AMP fuse) to the engine side of the ignition switch (+12v 'hot' when the key is 'on').
2. Connect the BLACK wire to battery ground.
3. Connect the WHITE wire to the signal wire.

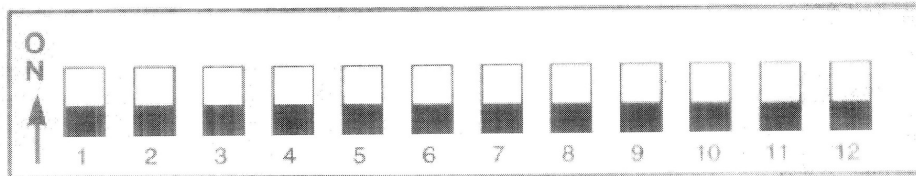


### Field Test Procedures:

1. Remove / turn off power.
2. Remove the Cable-X cover / lid.
3. Write down your existing switch settings for possible future use.
4. Set all dip switches to the open (off) position. See example below.
5. Apply power. The "LED" must blink once when the power is applied. (The circuitry will only go into the self test mode if switches #1 through #11 are open (off) before the power is applied.)
6. Close (turn on) switches #1 through #11 in order, beginning with #1. The "LED" will blink once after each switch is closed (turned on).
7. After switch #11 is closed, the speedometer will run at a speed of 60 MPH for 20 seconds. The vehicle odometer will advance a little over 0.3 miles. The "LED" will be on 'steady' during this part of the test. (Special Note to Cable-X-30 users: The speedometer will only run at 16 MPH during this test and less than 0.1 mile)
8. After the speedometer stops, the "LED" will blink on and off.
9. If all steps listed are completed, then the Cable-X unit is functioning properly.
10. If the Cable-X, after calibrating the switches, does not work, there is a 'signal' problem.
11. Now you are ready to calculate your specific pulses per mile for the Cable-X.

### Example of switches in the open (off) position:

(The Black portion of the switch in this diagram indicates the position of the switch)



Closed represents ON — Open represents OFF

### Calculating your Pulses Per Mile:

To program the Cable-X's dip switches for your particular vehicle, the following formula applies:

(teeth on transmission exciter gear) X (rear axle ratio) X (revolutions per mile of your tires)

- Teeth on transmission exciter gear. This would refer to the number of teeth or pulses the transmission would count out per revolution of the drive shaft. Most GMs with automatic transmissions output 40 pulses per revolution. High performance transmissions, like in Trans Ams, Camaros and Corvettes that have '6-speeds', usually have a 17 pulse per revolution output.
- The rear axle ratio. You will need to know your rear axle ratio for accurate calibration. The ratio of 3.73 will be used in the example.
- Revolutions per mile of your tires. If you do not know the revs per mile of your tire, it can be calculated. Measure from the ground up to the center of the axle, multiply this by 2. This gives you the height of the tire with the weight of the vehicle on it. Multiply this total by 3.14 (Pi). This gives you the circumference. Divide the number of inches in a mile (63360) by the circumference of the tire to find your revs per mile.

- **Example:**

- 14.5 inches from the ground to center of axle X2 = 29 inches tall.  
29 times 3.14 = 91.06  
63360 (inches per mile) divided by 91.06 (circumference) = 695.8 revs per mile

Now that you've gathered relevant information, you can calculate the pulses per mile of your vehicle.

- The above information will be used for calculations in the example.

**Example:**

40 (teeth on exciter) X 3.73 (rear axle ratio) X 695.8 (revs per mile of tire) = 103813 pulses per mile.

Look up the nearest program setting in the calibration chart. The nearest setting for 103813 is 104000.

The switch setting for that pulse per mile setting is: 0 1 0 0 0 0 1 0 1 0 0.

Switches 2, 8 and 10 will be closed.

If you are using a signal generator (sending unit) instead of a VSS sensor, you can use the pulses per revolution X 1000 for a good starting point. For example: An 8 pulse signal generator X 1000 = 8000 pulses per mile. The setting for 8000 ppm is: 0 0 1 1 0 0 1 0 0 0 0. Switches 3, 4 and 7 will be closed.

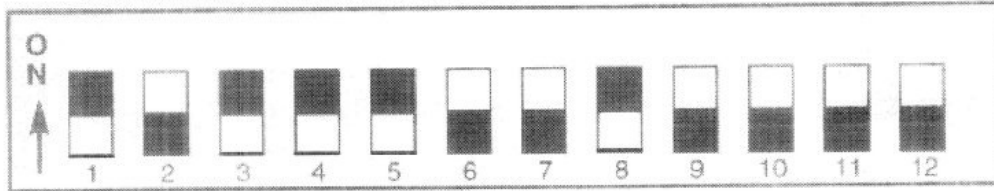
If you are using the ECM speed output, the pulses are usually 4000 pulses per mile. The setting for 4000 ppm is: 0 0 0 1 1 0 0 1 0 0 0 0. Switches 4, 5 and 8 will be closed.

The above two signal sources will have to be recalibrated up or down because of rear axle ratios and tire sizes varying from stock.

*Note to users of the Cable-X-30 models: Multiply your pulses per mile by .267 and set your switches according to the new calculation for proper operation. The 'field test' will only run at 16 mph instead of the 60 mph as listed in the above procedure.*

**Example of switch settings for 29,600 pulses per mile:**

(The Black portion of the switch in this diagram indicates the position of the switch)



This example shows switches 1, 3, 4, 5, and 8 in the closed (on) position. The setting in the chart below would appear like:

1011100100

( where "1" represents switch is "on" or "closed", "0" represents switch is "off" or "open" )

There has been some confusion trying to read the chart the way it is laid out. Switch 10 has a specific function as a pulse divider by a factor of 10.

This function will take a high pulse rate and divide it by 10 to put it into the range of the Cable-X's calibration capabilities. Any pulse rate above 40,920 pulses per mile will need to have switch 10 turned on. (In the example above, if switch 10 was in the closed (on) position, the setting would be for a 296,000 pulse per mile signal.)

The chart below has a column with 10 settings for calibration, a column for switch #10 in the open (off) position {#10=0} and a column for switch #10 in the closed (on) position {#10=1}. After calculating your pulses per mile, decide which position switch #10 will be positioned. The ten settings in the first column (read the top row of the chart for switch numbers) are for switches 1, 2, 3, 4, 5, 6, 7, 8, 9, skips 10, and shows switch 11 after the 9 switch, making 10 settings to be made.

An example would be for a setting of 92,000 pulses per mile. Switch 10 would be closed (on). Look for 92,000 under the last column since switch 10 is 'on' and find the setting for your Cable-X. The setting is: 0011100110. (This is for switches 1-9, and 11).

Switch #12 is not normally used except when you have a 3-wire speed sensor (hall effect type) or an extremely weak signal and is only operational when factory activated.

More technical information to come..... Let me know if you have questions:  
Need Technical Help? Email: [info@atrol.com](mailto:info@atrol.com)

Switch Settings											Impulse Speeds	
#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1	
0	0	0	0	0	0	0	0	0	1	40	400	
0	0	0	0	0	0	0	0	1	0	80	800	
0	0	0	0	0	0	0	0	1	1	120	1200	
0	0	0	0	0	0	0	1	0	0	160	1600	
0	0	0	0	0	0	1	0	1		200	2000	
0	0	0	0	0	0	0	1	1	0	240	2400	
0	0	0	0	0	0	0	1	1	1	280	2800	
0	0	0	0	0	0	1	0	0	0	320	3200	

0	0	0	0	0	0	1	0	0	1	360	3600
0	0	0	0	0	0	1	0	1	0	400	4000
0	0	0	0	0	0	1	0	1	1	440	4400
0	0	0	0	0	0	1	1	0	0	480	4800
0	0	0	0	0	0	1	1	0	1	520	5200
0	0	0	0	0	0	1	1	1	0	560	5600
0	0	0	0	0	0	1	1	1	1	600	6000
0	0	0	0	0	1	0	0	0	0	640	6400
0	0	0	0	0	1	0	0	0	1	680	6800
0	0	0	0	0	1	0	0	1	0	720	7200
0	0	0	0	0	1	0	0	1	1	760	7600
0	0	0	0	0	1	0	1	0	0	800	8000
0	0	0	0	0	1	0	1	0	1	840	8400
0	0	0	0	0	1	0	1	1	0	880	8800
0	0	0	0	0	1	0	1	1	1	920	9200
0	0	0	0	0	1	1	0	0	0	960	9600
0	0	0	0	0	1	1	0	0	1	1000	10000
0	0	0	0	0	1	1	0	1	0	1040	10400
0	0	0	0	0	1	1	0	1	1	1080	10800
0	0	0	0	0	1	1	1	0	0	1120	11200
0	0	0	0	0	1	1	1	0	1	1160	11600
0	0	0	0	0	1	1	1	1	0	1200	12000
0	0	0	0	0	1	1	1	1	1	1240	12400
0	0	0	0	1	0	0	0	0	0	1280	12800
0	0	0	0	1	0	0	0	0	1	1320	13200
0	0	0	0	1	0	0	0	1	0	1360	13600
0	0	0	0	1	0	0	0	1	1	1400	14000
0	0	0	0	1	0	0	1	0	0	1440	14400
0	0	0	0	1	0	0	1	0	1	1480	14800
0	0	0	0	1	0	0	1	1	0	1520	15200
0	0	0	0	1	0	0	1	1	1	1560	15600
0	0	0	0	1	0	1	0	0	0	1600	16000
0	0	0	0	1	0	1	0	0	1	1640	16400

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	0	0	1	0	1	0	1	0	1680	16800
0	0	0	0	1	0	1	0	1	1	1720	17200
0	0	0	0	1	0	1	1	0	0	1760	17600
0	0	0	0	1	0	1	1	0	1	1800	18000
0	0	0	0	1	0	1	1	1	0	1840	18400
0	0	0	0	1	0	1	1	1	1	1880	18800
0	0	0	0	1	1	0	0	0	0	1920	19200
0	0	0	0	1	1	0	0	0	1	1960	19600
0	0	0	0	1	1	0	0	1	0	2000	20000
0	0	0	0	1	1	0	0	1	1	2040	20400
0	0	0	0	1	1	0	1	0	0	2080	20800
0	0	0	0	1	1	0	1	0	1	2120	21200
0	0	0	0	1	1	0	1	1	0	2160	21600
0	0	0	0	1	1	0	1	1	1	2200	22000
0	0	0	0	1	1	1	0	0	0	2240	22400
0	0	0	0	1	1	1	0	0	1	2280	22800
0	0	0	0	1	1	1	0	1	0	2320	23200
0	0	0	0	1	1	1	0	1	1	2360	23600
0	0	0	0	1	1	1	1	0	0	2400	24000
0	0	0	0	1	1	1	1	0	1	2440	24400
0	0	0	0	1	1	1	1	1	0	2480	24800
0	0	0	0	1	1	1	1	1	1	2520	25200
0	0	0	1	0	0	0	0	0	0	2560	25600
0	0	0	1	0	0	0	0	0	1	2600	26000
0	0	0	1	0	0	0	0	1	0	2640	26400
0	0	0	1	0	0	0	0	0	1	2680	26800
0	0	0	1	0	0	0	1	0	0	2720	27200
0	0	0	1	0	0	0	1	0	1	2760	27600
0	0	0	1	0	0	0	1	1	0	2800	28000
0	0	0	1	0	0	0	1	1	1	2840	28400
0	0	0	1	0	0	1	0	0	0	2880	28800
0	0	0	1	0	0	1	0	0	1	2920	29200
0	0	0	1	0	0	1	0	1	0	2960	29600
0	0	0	1	0	0	1	0	1	1	3000	30000
0	0	0	1	0	0	1	1	0	0	3040	30400
0	0	0	1	0	0	1	1	0	1	3080	30800
0	0	0	1	0	0	1	1	1	0	3120	31200
0	0	0	1	0	0	1	1	1	1	3160	31600
0	0	0	1	0	1	0	0	0	0	3200	32000

0	0	0	1	0	1	0	0	0	1	3240	32400
0	0	0	1	0	1	0	0	1	0	3280	32800
0	0	0	1	0	1	0	0	1	1	3320	33200
0	0	0	1	0	1	0	1	0	0	3360	33600
0	0	0	1	0	1	0	1	0	1	3400	34000
0	0	0	1	0	1	0	1	1	0	3440	34400
0	0	0	1	0	1	0	1	1	1	3480	34800
0	0	0	1	0	1	1	0	0	0	3520	35200
0	0	0	1	0	1	1	0	0	1	3560	35600
0	0	0	1	0	1	1	0	1	0	3600	36000
0	0	0	1	0	1	1	0	1	1	3640	36400
0	0	0	1	0	1	1	1	0	0	3680	36800
0	0	0	1	0	1	1	1	0	1	3720	37200

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	0	1	0	1	1	1	1	0	3760	37600
0	0	0	1	0	1	1	1	1	1	3800	38000
0	0	0	1	1	0	0	0	0	0	3840	38400
0	0	0	1	1	0	0	0	0	1	3880	38800
0	0	0	1	1	0	0	0	1	0	3920	39200
0	0	0	1	1	0	0	0	1	1	3960	39600
0	0	0	1	1	0	0	1	0	0	4000	40000
0	0	0	1	1	0	0	1	0	1	4040	40400
0	0	0	1	1	0	0	1	1	0	4080	40800
0	0	0	1	1	0	0	1	1	1	4120	41200
0	0	0	1	1	0	1	0	0	0	4160	41600
0	0	0	1	1	0	1	0	0	1	4200	42000
0	0	0	1	1	0	1	0	1	0	4240	42400
0	0	0	1	1	0	1	0	1	1	4280	42800
0	0	0	1	1	0	1	1	0	0	4320	43200
0	0	0	1	1	0	1	1	0	1	4360	43600
0	0	0	1	1	0	1	1	1	0	4400	44000
0	0	0	1	1	0	1	1	1	1	4440	44400
0	0	0	1	1	1	0	0	0	0	4480	44800
0	0	0	1	1	1	0	0	0	1	4520	45200
0	0	0	1	1	1	0	0	1	0	4560	45600
0	0	0	1	1	1	0	0	1	1	4600	46000
0	0	0	1	1	1	0	1	0	0	4640	46400
0	0	0	1	1	1	0	1	0	1	4680	46800
0	0	0	1	1	1	0	1	1	0	4720	47200
0	0	0	1	1	1	0	1	1	1	4760	47600
0	0	0	1	1	1	1	0	0	0	4800	48000
0	0	0	1	1	1	1	0	0	1	4840	48400
0	0	0	1	1	1	1	0	1	0	4880	48800
0	0	0	1	1	1	1	0	1	1	4920	49200
0	0	0	1	1	1	1	1	0	0	4960	49600
0	0	0	1	1	1	1	1	0	1	5000	50000
0	0	0	1	1	1	1	1	1	0	5040	50400
0	0	0	1	1	1	1	1	1	1	5080	50800
0	0	1	0	0	0	0	0	0	0	5120	51200
0	0	1	0	0	0	0	0	0	1	5160	51600
0	0	1	0	0	0	0	0	1	0	5200	52000
0	0	1	0	0	0	0	0	1	1	5240	52400
0	0	1	0	0	0	0	1	0	0	5280	52800
0	0	1	0	0	0	0	1	0	1	5320	53200
0	0	1	0	0	0	0	1	1	0	5360	53600
0	0	1	0	0	0	0	1	1	1	5400	54000
0	0	1	0	0	0	1	0	0	0	5440	54400
0	0	1	0	0	0	1	0	0	1	5480	54800
0	0	1	0	0	0	1	0	1	0	5520	55200
0	0	1	0	0	0	1	0	1	1	5560	55600
0	0	1	0	0	0	1	1	0	0	5600	56000
0	0	1	0	0	0	1	1	0	1	5640	56400
0	0	1	0	0	0	1	1	1	0	5680	56800
0	0	1	0	0	0	1	1	1	1	5720	57200
0	0	1	0	0	1	0	0	0	0	5760	57600
0	0	1	0	0	1	0	0	0	1	5800	58000

#1 #2 #3 #4 #5 #6 #7 #8 #9 #11 #10 = 0 #10 = 1

0	0	1	0	0	1	0	0	1	0	5840	58400
0	0	1	0	0	1	0	0	1	1	5880	58800
0	0	1	0	0	1	0	1	0	0	5920	59200
0	0	1	0	0	1	0	1	0	1	5960	59600
0	0	1	0	0	1	0	1	1	0	6000	60000
0	0	1	0	0	1	0	1	1	1	6040	60400
0	0	1	0	0	1	1	0	0	0	6080	60800
0	0	1	0	0	1	1	0	0	1	6120	61200
0	0	1	0	0	1	1	0	1	0	6160	61600
0	0	1	0	0	1	1	0	1	1	6200	62000
0	0	1	0	0	1	1	1	0	0	6240	62400
0	0	1	0	0	1	1	1	0	1	6280	62800
0	0	1	0	0	1	1	1	1	0	6320	63200
0	0	1	0	0	1	1	1	1	1	6360	63600
0	0	1	0	1	0	0	0	0	0	6400	64000
0	0	1	0	1	0	0	0	0	1	6440	64400
0	0	1	0	1	0	0	0	0	1	6480	64800
0	0	1	0	1	0	0	0	1	1	6520	65200
0	0	1	0	1	0	0	1	0	0	6560	65600
0	0	1	0	1	0	0	1	0	1	6600	66000
0	0	1	0	1	0	0	1	1	0	6640	66400
0	0	1	0	1	0	0	1	1	1	6680	66800
0	0	1	0	1	0	1	0	0	0	6720	67200
0	0	1	0	1	0	1	0	0	1	6760	67600
0	0	1	0	1	0	1	0	1	0	6800	68000
0	0	1	0	1	0	1	0	1	1	6840	68400
0	0	1	0	1	0	1	1	0	0	6880	68800
0	0	1	0	1	0	1	1	0	1	6920	69200
0	0	1	0	1	0	1	1	1	0	6960	69600
0	0	1	0	1	0	1	1	1	1	7000	70000
0	0	1	0	1	1	0	0	0	0	7040	70400
0	0	1	0	1	1	0	0	0	1	7080	70800
0	0	1	0	1	1	0	0	1	0	7120	71200
0	0	1	0	1	1	0	0	1	1	7160	71600
0	0	1	0	1	1	0	1	0	0	7200	72000
0	0	1	0	1	1	0	1	0	1	7240	72400
0	0	1	0	1	1	0	1	1	0	7280	72800
0	0	1	0	1	1	0	1	1	1	7320	73200
0	0	1	0	1	1	1	0	0	0	7360	73600
0	0	1	0	1	1	1	0	0	1	7400	74000
0	0	1	0	1	1	1	0	1	0	7440	74400
0	0	1	0	1	1	1	0	1	1	7480	74800
0	0	1	0	1	1	1	1	0	0	7520	75200
0	0	1	0	1	1	1	1	0	1	7560	75600
0	0	1	0	1	1	1	1	1	0	7600	76000
0	0	1	0	1	1	1	1	1	1	7640	76400
0	0	1	1	0	0	0	0	0	0	7680	76800
0	0	1	1	0	0	0	0	0	1	7720	77200
0	0	1	1	0	0	0	0	1	0	7760	77600
0	0	1	1	0	0	0	0	1	1	7800	78000
0	0	1	1	0	0	0	1	0	0	7840	78400
0	0	1	1	0	0	0	1	0	1	7880	78800

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	1	1	0	0	0	1	1	0	7920	79200
0	0	1	1	0	0	0	1	1	1	7960	79600
0	0	1	1	0	0	1	0	0	0	8000	80000
0	0	1	1	0	0	1	0	0	1	8040	80400
0	0	1	1	0	0	1	0	1	0	8080	80800
0	0	1	1	0	0	1	0	1	1	8120	81200
0	0	1	1	0	0	1	1	0	0	8160	81600
0	0	1	1	0	0	1	1	0	1	8200	82000
0	0	1	1	0	0	1	1	1	0	8240	82400
0	0	1	1	0	0	1	1	1	1	8280	82800
0	0	1	1	0	1	0	0	0	0	8320	83200
0	0	1	1	0	1	0	0	0	1	8360	83600
0	0	1	1	0	1	0	0	1	0	8400	84000
0	0	1	1	0	1	0	0	1	1	8440	84400
0	0	1	1	0	1	0	1	0	0	8480	84800
0	0	1	1	0	1	0	1	0	1	8520	85200
0	0	1	1	0	1	0	1	1	0	8560	85600
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0	0	1	1	1	1	0	1	0	0	9760	97600
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0	0	1	1	1	1	0	1	1	0	9840	98400
0	0	1	1	1	1	0	1	1	1	9880	98800
0	0	1	1	1	1	1	0	0	0	9920	99200
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0	0	1	1	1	1	1	1	1	0	10160	101600
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0	1	0	0	1	1	0	0	1	1	12280	122800
0	1	0	0	1	1	0	1	0	0	12320	123200
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0	1	0	0	1	1	0	1	1	0	12400	124000
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0	1	0	0	1	1	1	0	1	0	12560	125600
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0	1	0	1	1	0	1	0	1	1	14520	145200
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0	1	0	1	1	1	0	1	1	0	14960	149600
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0	1	0	1	1	1	1	0	0	1	15080	150800
0	1	0	1	1	1	1	0	1	0	15120	151200
0	1	0	1	1	1	1	0	1	1	15160	151600
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0	1	0	1	1	1	1	1	1	0	15280	152800
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0	1	1	0	0	1	0	1	0	0	16160	161600
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0	1	1	0	0	1	1	1	1	0	16560	165600
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0	1	1	0	1	0	0	0	0	1	16680	166800
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0	1	1	0	1	0	1	0	1	1	17080	170800
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0	1	1	0	1	0	1	1	0	1	17160	171600
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0	1	1	1	1	1	1	0	0	0	20160	201600
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1	0	0	0	1	0	1	1	1	1	22360	223600
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1	0	0	1	1	0	0	0	1	1	24440	244400
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1	1	0	0	1	1	1	0	1	1	33080	330800
1	1	0	0	1	1	1	1	0	0	33120	331200
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1	1	0	1	0	0	0	0	1	1	33400	334000
1	1	0	1	0	0	0	1	0	0	33440	334400
1	1	0	1	0	0	0	1	0	1	33480	334800
1	1	0	1	0	0	0	1	1	0	33520	335200
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#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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1	1	0	1	1	1	0	0	1	0	35280	352800
1	1	0	1	1	1	0	0	1	1	35320	353200
1	1	0	1	1	1	0	1	0	0	35360	353600
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1	1	0	1	1	1	1	0	0	1	35560	355600
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1	1	1	1	1	0	1	1	1	0	40240	402400
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